

GENERAL CATALOG & STUDENT HANDBOOK

2014-2015



Your future starts here



PHONE LISTINGS

Student Information (24-Hour Automated System)	650-2276
MyCSN Call Center Number	651-5555
TDD-Hearing Impaired	651-4328

HENDERSON CAMPUS	651-3000
Admissions	651-3030
Bookstore	651-3055
CSN High School	651-3080
Campus Administration Office	651-3010
Cashier / Bursar	651-3022
Computer Lab	651-3002
Counseling	651-3165
Disability Resource Center	651-3795
Financial Aid	651-3044
Library	651-3066
Re-Entry / Career Services Center	651-3174
Security / After Hours Emergency	651-3113
Student Activities / Student Government	651-3177
Student Affairs	651-3115
Student Retention Services	651-3103
Testing & Assessment Center	651-3128
Tutorial Center	651-3125
Writing Center	651-3187

CHEYENNE CAMPUS	651-4000
Admissions	651-4060
Fine Arts Gallery	651-4205
Bookstore	651-4645
CSN High School	651-4071
Campus Administration Office	651-4002
Cashier / Bursar	651-4064
Child Care	651-4944
Computer Lab	651-4592
Counseling	651-4049
Deaf & Hard of Hearing Services	651-4448
Disability Resource Center	651-4045
Financial Aid	651-4047
Financial Services / Purchasing	651-4320
Library	651-4014
Operations & Maintenance	651-4039
Nicholas J. Horn Theatre Box Office	651-5483
Planetarium	651-4259
Re-Entry / Career Services Center / Student Affairs	651-4700
Russell's Restaurant	651-4407
Security / After Hours Emergency	651-4055
Student Activities / Student Government	651-4051
Student Retention Services	651-2626
Testing & Assessment Center	651-4050
TRIO Student Support Services Program	651-4441
Tutorial Center	651-4232
Veteran's Center	651-4046
Writing Center	651-4101

CHARLESTON CAMPUS	651-5000
Admissions	651-5610
Bookstore	651-5606
CSN High School	651-5030
Campus Administration Office	651-5640
Cashier / Bursar	651-5650
Child Care	651-7390
Computer Lab	651-5931
Counseling	651-5670
Dental Faculty Practice / Clinic Appointments	651-5510
Disability Resource Center	651-5644
Financial Aid	651-5660
Foundation	651-7301
Health Programs Advising	651-5690
Human Resources	651-5800
International Center	651-5820
Library	651-5723
Occupational Safety & Workers Comp	651-5800
Online Campus / Courses	651-5619
Plant Nursery	651-5050
President's Office	651-5600
Public Affairs / Media Relations	651-7474
Re-Entry / Career Services Center / Student Affairs	651-5089
Security / After Hours Emergency	651-5613
Student Activities / Student Government	651-5904
Student Retention Services	651-7367
Testing & Assessment Center	651-5733
Tutorial Center	651-5732
Writing Center	651-7402

ACADEMIC & LEARNING CENTERS

Green Valley Center	651-2629
Mesquite Center	702-346-2485
Moapa Valley Center	702-398-7545
Nellis Center	651-4155
Sahara West Center	651-4747
Summerlin Center	651-4900
Western Center	651-4800

ACADEMIC DEPARTMENTS

Accounting, Finance & Computer Office Technology	651-3100
Applied Technologies	651-4792
Biological Sciences	651-5973
Business Administration	651-5066
Communication	651-5051
Continuing Education / Community & Personal Enrichment	651-4059
Dental Sciences, Diagnostic Evaluation & Rehabilitation Services	651-5584
Education	651-4400
Engineering & Computing Technology	651-4660
English	651-5665
Fine Arts	651-4110
Health Related Professions	651-5757
Human Behavior	651-5700
International Languages	651-7684
Mathematics	651-7472
Media Technologies	651-4121
Nursing	651-5986
Physical Sciences	651-7475
Public Safety	651-3525
Resorts & Gaming	651-4168
Social Sciences	651-5974
Workforce & Economic Development	651-4747

The CSN Call Center

The CSN Call Center is staffed with customer service representatives available to provide students, faculty, and the community assistance via telephone. Representatives assist students with resetting their MyCSN passwords, students/faculty with navigating MyCSN, and all callers with general CSN questions. The CSN Call Center is also able to assist students with information regarding the status of their financial aid file. We strive to provide world class customer service.



Enrollment Success Steps – Degree/Certificate/Transfer Student

The information on this page is subject to change at any time. For the most up-to-date information visit www.csn.edu.

1. Apply for Admission

- Go to www.csn.edu/futurestudents/.
- Click on one of the five colored links and follow the instructions (this will include residency information).
- Your admissions letter includes your next steps, your NSHE ID, and residency status.
- A separate email sent to you contains your temporary password to access MyCSN.

2. Transfer Previously Completed College/ University Credits

- Get Official Transcripts
 - Request copies of official transcripts from your previously attended colleges/universities.
- Complete the Transfer Credit Evaluation Form
 - Go to www.csn.edu/uploadedfiles/admissions/transfer%20credit%20eval%20-%2020157.pdf.
 - Submit completed form to the CSN Office of the Registrar.

3. Apply for Financial Aid

- Go to www.csn.edu/pages/3328.asp.
- Review the Financial Aid Roadmap.
- Complete and submit the FREE APPLICATION FOR FEDERAL STUDENT AID (FAFSA) at <https://fafsa.ed.gov>.
- Complete and submit the CSN SCHOLARSHIP APPLICATION.
- All verification and communication by the Financial Aid Office will be sent to your MyCSN Communication Center (IMPORTANT– check your MyCSN Communication Center frequently!).

4. Become Familiar with the MyCSN Student Record System

- Go to www.csn.edu.
- Click on the MyCSN icon.
- Enter your NSHE ID and temporary password.
- Click SIGN IN.
- Learn how to use MyCSN by following the guides at www.csn.edu/pages/3737.asp.

5. Review and Take the Placement Tests

- English Placement Test
 - Go to www.csn.edu/englishreview.
 - Review for the test.
 - Take the test at one of CSN's Testing Centers.
- Math Placement Test
 - Go to www.csn.edu/mathreview.
 - Review for the test.
 - Take the test at one of CSN's Testing Centers.
- Testing Center Information
 - Go to www.csn.edu/testingcenter for locations, hours, and contact information.

6. Participate in CSN's NEW Student Orientation for Success

- For on-line and face-to-face format information go to www.csn.edu/orientation/.

7. Meet with an Advisor/Success Coach or Counselor

- First-time College Students (no transfer credits), Undecided Students (no major declared), and Assoc. of Gen. Studies (AGS) Students:
 - Go to www.csn.edu/advising to schedule an Advisor/Success Coach appointment and build a first semester schedule.

- Returning Students (with declared major) or New Transfer Students:
 - Go to www.csn.edu/success to schedule an appointment and build a long-term plan with a counselor in your academic field.

8. Register for Classes

- Go to www.csn.edu and SIGN IN into your MyCSN Account.
- Search for classes several different ways. Use course information on academic plan/other forms from your Academic Success Coach/Advisor or Counselor.
- Follow instructions as prompted.
- Add your official CSN student email account in your student center.

9. Pay Tuition and Fees and Obtain a CSN Student ID Card

- Tuition and Fees Payment
 - Online
 - Log into MyCSN.
 - Go into your student center.
 - Under Finances, click Make a Payment.
 - In-Person at any of the 3 main campus Cashier Offices (Debit or Credit Card only).
 - By mail - make your check payable to **NSHE Board of Regents** and send to: College of Southern Nevada
Attn: Cashier's Office - C1M
3200 East Cheyenne Ave.
North Las Vegas, NV 89030
- Obtain a CSN Student ID Card
 - Bring your current semester schedule, photo ID, and paid receipt (\$2.00 fee payable at the CSN Cashier's Office at any main campus) to a **Student Life and Leadership Development Office**.

10. Buy or Rent Textbooks - Course textbooks ARE NOT OPTIONAL

- Visit the bookstore website at www.csn.edu/academics/bookstore.asp.

MORE SUCCESS STEPS:

- Attend All of Your Classes
 - ALWAYS go to every class and login daily to online classes.
- Activate Your Official CSN Student Email and Canvas Account
 - Accounts are automatically created two weeks before the start of the semester based on CSN course registration data.
 - Login IDs follow the format first name "dot" last name and possibly a number sequence after last name if there are other students with your same name. Your email address will be login ID followed by @students.csn.edu. Example: john.doe@students.csn.edu or john.doe01@students.csn.edu
 - Your initial password will be set when the account is validated.
 - To validate the account visit csnstudent.csn.edu/stuverify after it has been created.
 - Your Canvas user ID is your 10-digit NSHE ID and the password is the same as your CSN student email account.

For assistance, contact the Student Recruitment Office at 702-651-4717 or email StudentRecruitment@csn.edu. For questions regarding transcript and in-state residency, please visit the Office of the Registrar at www.csn.edu/admissions/index.asp.





Student Enrollment Pocket Guide

Sign In

MYCSN LOG-IN

- Go to the CSN homepage at www.csn.edu and click on the **MyCSN** link
- Enter your NSHE ID# and Password – click **Sign In** button
- Select the **Enter MyCSN Student Center** link to continue
- Review your MyCSN Student Center Homepage and check your enrollment date
- Click the **Enroll** link to begin class search for the available enrollment term

Search

HOW TO: SEARCH FOR CLASSES

- Search for classes using the Select **Subject** link or enter the Subject code
- Enter the appropriate course number – change “is exactly” to “contains” – click **Search**
 - **Do not include the “B” suffix when searching for classes, for example, when searching for “ABDY 101B” type “ABDY 101”**
- Click the **Green Arrow** to view all available courses and review course details
- Before selecting a course, review the course details (click on the link next to Section)
- **Select** the course of your choice and then click **Next** to add to your Shopping Cart
- Repeat previous steps by clicking **Start a New Search** to select additional classes
- Remember: Selected classes are only in your Shopping Cart... You still need to Enroll

Enroll

HOW TO: ENROLL INTO CLASSES

- To Enroll – click the **Show All** link to review course selections in your Shopping Cart
- Review your selected courses and click **Enroll** to continue
- Click the **Finish Enrolling** link to complete your course enrollment process
- Review the status of your enrollment and click on the **My Schedule** link to continue
- Click on the **Printer Friendly Page** link to print a copy of your schedule

Drop

HOW TO: DROP A CLASS

- To drop a class go to your My Class Schedule Page and select the **Drop** tab
- Click on the **Check Box** next to the course to be dropped
- Click the **Drop Selected Classes** button and review the class to be dropped
- Confirm your decision and click the **Finish Dropping** button and review the results
- Click on the **My Schedule** link to return to your My Class Schedule page

Canvas

HOW TO: LOG INTO CANVAS ACCOUNT

- Go to **CSN's homepage**
- Locate the **Online Campus/Courses** link on the left side of the page and click it.
- You will be taken to the **Online Campus** homepage.
- Click **Login Now** in the CSN Online Campus Course box on the right side of the page.
- You will be taken to the Canvas **Login** screen.
- Enter your **10-digit NSHE ID number** in the **Canvas ID box**.
- Use the same password as you do for your CSN Network account. If you do not have one you can activate at this time.
- Then, click on the **Log in** box.
- You will be taken to your **Canvas dashboard** page. To access your courses in Canvas, locate **Courses at the top of the page in the blue area**.
- Scroll your mouse over Courses and you will see the list of courses that you are currently enrolled in.
- Scroll down to the course you want to access and click on it.





DISCLAIMER

The General Catalog and Student Handbook describes current academic programs of study, related opportunities for student learning within those programs of study, course descriptions, and degree requirements for the academic year. The content of this catalog is subject to modification at any time for various reasons including, but not necessarily limited to, changes in college resources or educational plans. The catalog does not constitute a contractual commitment that the college will offer all the courses or programs of study described, and the college reserves the right to revise catalog provisions and fees at any time in accordance with the actions of the President, the NSHE, or any other governing body. The college reserves the right to eliminate, cancel, reduce in size or phase out courses, academic programs of study and/or requirements for financial, curricular or programming reasons, and to limit enrollments in specific programs of study and courses.

NONDISCRIMINATION POLICY

The College of Southern Nevada (CSN) is committed to nondiscrimination on the basis of race, color, ethnicity, national origin, sex, sexual orientation, gender identity or expression, genetic information, religion, age, disability, military or veteran's status, in admissions, educational programs or activities, and employment as required by applicable federal and state laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI, Title VII, of the Civil Rights Act of 1964, Title IX Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans with Disability Act of 1990, has been delegated to Debbie Tanner, Compliance Investigator II, Charleston Campus – 6375 West Charleston Blvd., Office E-128, Las Vegas, NV 89146, 702-651-5783, debbie.tanner@csn.edu.

Additional information regarding CSN's grievance procedures may be found in the Affirmative Action Plan located on the Affirmative Action web page at www.csn.edu and in Appendix C of CSN's College Catalog.

PRIVACY STATEMENT

In accordance with institutional policy and the U.S. Family Educational Rights and Privacy Act (FERPA), the College of Southern Nevada (CSN) vigorously protects the privacy of students' education records. The institution does not release private records of individual students, such as grades and class schedules, without prior written consent of the student.

As permitted under federal law, an exception to the above practice is the release of "directory" information considered to be public in nature and not generally deemed to be an invasion of privacy. At CSN, the following categories are defined as "directory" information: name, participation in officially recognized activities and sports; address; telephone number; weight and height of members of athletic teams; email address; degrees, honors, and awards received; major field of study; college; dates of attendance; date of graduation; undergraduate and graduate status; most recent educational agency or institutions attended; and enrollment status (full-time or part-time). Another exception under the federal law is that CSN is able to share education records, without the student's consent, with the following parties or under the following conditions: school officials with legitimate educational interest; other schools to which a student is transferring; specified officials for audit or evaluation purposes; appropriate parties in connection with financial aid to a student; organizations conducting certain studies for or on behalf of CSN; accrediting organizations; to comply with judicial order or lawfully issued subpoena, provided CSN makes a reasonable attempt to notify the student in advance of compliance; appropriate officials in cases of health and safety emergencies; and state and local authorities, within a juvenile justice system, pursuant to specific state law.

Students have the right to request non-disclosure of directory information. If they do not restrict release of this information, it is probable that the information will be released or disclosed. CSN uses directory information for non-commercial, educational purposes, such as to mail notices to students about changes in policies, services, or opportunities. Directory information may also be provided for commercial purposes to businesses affiliated with the institution, honor societies, the alumni association and foundation, or other individuals for purposes that may be beneficial to students. The institution exercises discretion in responding to requests for directory information and may or may not provide such information when requested, depending on the intended purpose of the request. The institution does not sell or rent student information for a fee.

It is important to consider carefully the potential consequences of restricting the release of directory information. If a student restricts release for non-commercial educational purposes, the institution will be unable to place the student's name in publications such as honors and graduation programs; to confirm graduation and dates of attendance to potential employers; to verify enrollment with organizations such as insurance companies; or to send notifications about specialized scholarships without the express written authorization of the student.

If, after due consideration, you wish to restrict the release of directory information, logon to your MyCSN web page at <https://por.shr.nevada.edu/psp/spporprd/CSN/ENTP/h/?tab=GUEST>. Once in the Student Center, scroll down to the "Personal Information" area and select "Privacy Settings" from the pull-down menu. The Privacy Settings will list all options; select whichever option you prefer. This directive will apply permanently to your record unless you choose to reverse it in MyCSN.



FALL SEMESTER 2014**SEMESTER DATES**

Priority online registration for currently enrolled students only	May 1-May 19
Online registration open for all admitted students	May 20-August 24
Payment due for early registration	July 15
• Students should check MyCSN for payment exceptions such as financial aid or third party payees	
Online registration continues for all students.....	July 16-August 24
• Students must pay before 11:59 p.m. on the same day of registration or all classes may be dropped	
Last day to apply for in-state residency	August 1
• All supporting documents must be submitted with the in-state residency application	
Labor Day	September 1
• College closed – No classes scheduled	
Financial Aid Census Date.....	September 6
• Last financial aid awards will be processed based on enrollment census date. If students add credit hour enrollment after this date their financial aid eligibility will remain the same and should be prepared to pay for additional charges out of pocket. Therefore, if students plan to take classes during the short-term sessions for the fall semester, they must register by September 6 in order to receive financial aid for the additional classes.	
• Late class registration exceptions will not be eligible for financial aid.	
Last day to apply for fall 2014 graduation.....	October 10
Last day to submit via MyCSN Non-Disclosure Directory Information.....	October 10
Nevada Day	October 31
• College closed – No classes scheduled	
Veterans Day	November 11
• College closed – No classes scheduled	
Thanksgiving Recess	November 27-30
• College closed – No classes scheduled	

SESSION DATES**FALL 2014 SIXTEEN-WEEK - FULL TERM**

Last day to register by 11:59 p.m. for this session.....	August 24
First day of instruction.....	August 25
Last day for a 100% refund	August 31
Last day to drop a class without a grade of W	September 7
Last day for 50% drop fee	September 7
Last day to officially drop with a grade of W	November 3
Last day to change from credit to audit	November 3
Last day of instruction	December 14
Grades due from instructors	December 17

FALL 2014 FOUR-WEEK - FIRST SESSION

Last day to register by 11:59 p.m. for this session.....	August 24
First day of instruction.....	August 25
Last day for a 75% refund	August 27
Last day to officially drop without a grade of W	August 27
Last day to drop with a grade of W	September 10
Last day to change from credit to audit	September 10
Last day of instruction	September 21
Grades due from instructors.....	September 24

FALL 2014 FOUR-WEEK - SECOND SESSION

Last day to register by 11:59 p.m. for this session	September 21
First day of instruction.....	September 22
Last day for a 75% refund	September 24
Last day to officially drop without a grade of W	September 24
Last day to drop with a grade of W	October 8



FALL 2014 FOUR-WEEK – SECOND SESSION (cont.)

Last day to change from credit to audit	October 8
Last day of instruction.....	October 19
Grades due from instructors	October 22

FALL 2014 FOUR-WEEK – THIRD SESSION

Last day to register by 11:59 p.m. for this session	October 19
First day of instruction	October 20
Last day for a 75% refund.....	October 22
Last day to officially drop without a grade of W	October 22
Last day to drop with a grade of W	November 5
Last day to change from credit to audit	November 5
Last day of instruction.....	November 16
Grades due from instructors	November 19

FALL 2014 FOUR-WEEK – FOURTH SESSION

Last day to register by 11:59 p.m. for this session	November 16
First day of instruction	November 17
Last day for a 75% refund.....	November 19
Last day to officially drop without a grade of W	November 19
Last day to drop with a grade of W	December 3
Last day to change from credit to audit.....	December 3
Last day of instruction	December 14
Grades due from instructors	December 17

FALL 2014 EIGHT-WEEK – FIRST SESSION

Last day to register by 11:59 p.m. for this session.....	August 24
First day of instruction.....	August 25
Last day for a 75% refund.....	August 27
Last day to officially drop without a grade of W	August 27
Last day to drop with a grade of W	September 26
Last day to change from credit to audit	September 26
Last day of instruction.....	October 19
Grades due from instructors	October 22

FALL 2014 EIGHT-WEEK – SECOND SESSION

Last day to register by 11:59 p.m. for this session	October 19
First day of instruction	October 20
Last day for a 75% refund.....	October 22
Last day to officially drop without a grade of W	October 22
Last day to drop with a grade of W	November 21
Last day to change from credit to audit	November 21
Last day of instruction	December 14
Grades due from instructors	December 17

SPRING SEMESTER 2015**SEMESTER DATES**

Priority online registration for currently enrolled students only.....	November 3-20
Online registration open for all admitted students	November 21-January 19
Payment due for early registration.....	December 3
• Students should check MyCSN for payment exceptions such as financial aid or third party payees	
Online registration continues for all students	December 3-January 19
• Students must pay before 11:59 p.m. on the same day of registration or all classes may be dropped	
Last day to apply for in-state residency.....	January 2
• All supporting documents must be submitted with the in-state residency application	
Martin Luther King, Jr. Day	January 19
• College closed – No classes scheduled	



SPRING 2015 SEMESTER DATES (cont.)

Financial Aid Census Date	February 2
<ul style="list-style-type: none"> • Last financial aid awards will be processed based on enrollment census date. If students add credit hour enrollment after this date their financial aid eligibility will remain the same and should be prepared to pay for additional charges out of pocket. Therefore, if students plan to take classes during the short-term sessions for the spring semester, they must register by February 2 in order to receive financial aid for the additional classes. • Late class registration exceptions will not be eligible for financial aid. 	
Presidents' Day	February 16
<ul style="list-style-type: none"> • College closed – No classes scheduled 	
Last day to apply for spring 2015 graduation	March 6
Last day to submit via MyCSN Non-Disclosure Directory Information	March 6
Spring Recess	March 16 - 22
<ul style="list-style-type: none"> • No classes scheduled 	
Commencement	May 18

SESSION DATES

SPRING 2015 SIXTEEN-WEEK - FULL TERM

Last day to register by 11:59 p.m. for this session.....	January 19
First day of instruction.....	January 20
Last day for a 100% refund	January 25
Last day to drop a class without a grade of W	February 1
Last day for 50% drop fee	February 1
Last day to officially drop with a grade of W	April 3
Last day to change from credit to audit.....	April 3
Last day of instruction	May 17
Grades due from instructors.....	May 20

SPRING 2015 FOUR-WEEK - FIRST SESSION

Last day to register by 11:59 p.m. for this session.....	January 19
First day of instruction.....	January 20
Last day for a 75% refund	January 22
Last day to officially drop without a grade of W	January 22
Last day to drop with a grade of W	February 4
Last day to change from credit to audit.....	February 4
Last day of instruction	February 15
Grades due from instructors	February 18

SPRING 2015 FOUR-WEEK - SECOND SESSION

Last day to register by 11:59 p.m. for this session.....	February 16
First day of instruction.....	February 17
Last day for a 75% refund	February 19
Last day to officially drop without a grade of W	February 19
Last day to drop with a grade of W	March 4
Last day to change from credit to audit.....	March 4
Last day of instruction	March 15
Grades due from instructors	March 18

SPRING 2015 FOUR-WEEK - THIRD SESSION

Last day to register by 11:59 p.m. for this session.....	March 22
First day of instruction.....	March 23
Last day for a 75% refund	March 25
Last day to officially drop without a grade of W	March 25
Last day to drop with a grade of W	April 8
Last day to change from credit to audit.....	April 8
Last day of instruction	April 19
Grades due from instructors	April 22



SPRING 2015 FOUR-WEEK - FOURTH SESSION

Last day to register by 11:59 p.m. for this session.....	April 19
First day of instruction.....	April 20
Last day for a 75% refund.....	April 22
Last day to officially drop without a grade of W	April 22
Last day to drop with a grade of W	May 6
Last day to change from credit to audit.....	May 6
Last day of instruction.....	May 17
Grades due from instructors.....	May 20

SPRING 2015 EIGHT-WEEK - FIRST SESSION

Last day to register by 11:59 p.m. for this session.....	January 1
First day of instruction.....	January 20
Last day for a 75% refund.....	January 22
Last day to officially drop without a grade of W	January 22
Last day to drop with a grade of W	February 20
Last day to change from credit to audit.....	February 20
Last day of instruction.....	March 15
Grades due from instructors.....	March 18

SPRING 2015 EIGHT-WEEK - SECOND SESSION

Last day to register by 11:59 p.m. for this session.....	March 22
First day of instruction.....	March 23
Last day for a 75% refund.....	March 25
Last day to officially drop without a grade of W	March 25
Last day to drop with a grade of W	April 24
Last day to change from credit to audit.....	April 24
Last day of instruction.....	May 17
Grades due from instructors.....	May 20

SUMMER SEMESTER 2015**SEMESTER DATES**

Priority online registration for currently enrolled students only.....	April 1-13
Online registration open for all admitted students.....	April 14-May 31
Payment due for early registration.....	May 4
• Students should check MyCSN for payment exceptions such as financial aid or third party payees	
Online registration continues for all students.....	May 5-31
• Students must pay before 11:59 p.m. on the same day of registration or all classes may be dropped	
Memorial Day	May 25
• College closed – No classes scheduled	
Financial Aid Census Date.....	June 8
• Last financial aid awards will be processed based on enrollment census date. If students add credit hour enrollment after this date their financial aid eligibility will remain the same and should be prepared to pay for additional charges out of pocket. Therefore, if students plan to take classes during the Four-WEEK Second Session for the summer semester, they must register by June 8 in order to receive financial aid for the additional classes.	
• Late class registration exceptions will not be eligible for financial aid.	
Independence Day (observed nationally).....	July 3
• College closed – No classes scheduled	
Last day to apply for summer 2015 graduation.....	July 10

SESSION DATES

SUMMER 2015 FOUR-WEEK - FIRST SESSION

Last day to register by 11:59 p.m. for this session	May 31
First day of instruction	June 1
Last day for a 75% refund	June 3
Last day to officially drop without a grade of W	June 3
Last day to drop with a grade of W	June 17
Last day to change from credit to audit	June 17
Last day of instruction	June 28
Grades due from instructors	July 1

SUMMER 2015 FOUR-WEEK - SECOND SESSION

Last day to register by 11:59 p.m. for this session	June 28
First day of instruction	June 29
Last day for a 75% refund	July 1
Last day to officially drop without a grade of W	July 1
Last day to drop with a grade of W	July 15
Last day to change from credit to audit	July 15
Last day of instruction	July 26
Grades due from instructors	July 29

SUMMER 2015 SIX-WEEK SESSION

Last day to register by 11:59 p.m. for this session	May 31
First day of instruction	June 1
Last day for a 75% refund	June 3
Last day to officially drop without a grade of W	June 3
Last day to drop with a grade of W	June 26
Last day to change from credit to audit	June 26
Last day of instruction	July 12
Grades due from instructors	July 15

SUMMER 2015 EIGHT-WEEK SESSION

Last day to register by 11:59 p.m. for this session	May 31
First day of instruction	June 1
Last day for a 75% refund	June 3
Last day to officially drop without a grade of W	June 3
Last day to drop with a grade of W	July 2
Last day to change from credit to audit	July 2
Last day of instruction	July 26
Grades due from instructors	July 29

SUMMER 2015 TEN-WEEK SESSION

Last day to register by 11:59 p.m. for this session	May 31
First day of instruction	June 1
Last day for a 75% refund	June 3
Last day to officially drop without a grade of W	June 3
Last day to drop with a grade of W	July 10
Last day to change from credit to audit	July 10
Last day of instruction	August 9
Grades due from instructors	August 12

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NEVADA SYSTEM OF HIGHER EDUCATION (NSHE)

The Nevada State Constitution provides for the control of the NSHE to be vested with the Board of Regents. The Nevada System of Higher Education includes The University of Nevada, Las Vegas (UNLV); The University of Nevada, Reno (UNR); The Desert Research Institute (DRI); Nevada State College (NSC); Great Basin College (GBC); Western Nevada College (WNC); Truckee Meadows Community College (TMCC) and the College of Southern Nevada (CSN). CSN operates three main campuses and other academic centers in Clark County.

MISSION

The College of Southern Nevada creates opportunities and changes lives through access to quality teaching, services, and experiences that enrich our diverse community.

Vision Statement

The College of Southern Nevada is a premier learning institution:

- Promoting student success through excellence in teaching and learning,
- Providing a highly educated, civically engaged, and skilled workforce,
- Using innovative technology and available resources effectively,
- Increasing alternative funding sources,
- Acting environmentally responsible, and
- Emphasizing fact-based decision-making and accountability to all stakeholders.

Values Statement

The College of Southern Nevada strives for high quality in all endeavors. We value:

- **Learning** – quality teaching, flexible scheduling, and total access allowing opportunities for all ages and backgrounds for student success;
- **Shared Governance** – communication across multiple campus sites among our faculty, staff, and students, and with local partnerships and state communities;
- **Students** – a student-focused environment where academic freedom is utilized to broaden student knowledge beyond the classroom; and
- **Community** – a diverse community, fostering integrity and honesty, professional development, and innovative learning for our students, faculty, and staff.

ACCREDITATION

The College of Southern Nevada is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities

indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities

8060 165th Avenue N.E., Suite 100

Redmond, WA 98052 (425) 558-4224 www.nwccu.org

Accreditation by the Northwest Commission on Colleges and Universities refers to the institution as a whole. Therefore, statements like “fully accredited” or “this program is accredited by the Northwest Commission on Colleges and Universities” or “this degree is accredited by the Northwest Commission on Colleges and Universities” are incorrect and should not be used.

STUDENT ASSESSMENT

To assure that programs at CSN are effective and that students completing programs of study at CSN are attaining the established levels of knowledge and skills, the faculty and staff of CSN have developed ongoing processes to assess the learning and academic achievement of students completing these programs.

Students nearing completion of their programs of study at CSN should expect to participate in a wide range of assessment of student learning activities designed to glean useful information about student learning and the effectiveness of degree and certificate programs and the student services programs. Periodically during their courses of study, CSN students may be asked to participate in tasks in which they distinguish the breadth and depth of their knowledge and skills, indicate their levels of satisfaction with services provided, and appraise their learning experience. Alumni may be asked to communicate their views about CSN programs in the context of their lives and careers since graduation. Employers also may be asked to indicate the qualities they need and expect from CSN graduates and to evaluate how effective CSN programs have been in preparing students to meet their needs.

Guiding this continuous assessment effort is the concern with program quality. CSN faculty and staff must assure that students gain the requisite learning from their programs of study at CSN and that these programs continue to meet high standards of excellence.

GREEN EFFORTS

Print Wise Print Management System

In an effort to save natural and fiscal resources, CSN has implemented the Print Wise System to manage computer lab and classroom printing. The system encourages students to “print wise,” by raising awareness of the costs associated with unnecessary printing, and reduce the waste of toner and paper products. This policy saved an estimated 1.2 million pages from being printed in the open computer labs in the fall 2011 semester alone. Overall, student printing has been reduced by 40-60% each semester. The Print Wise System will automatically apply a \$10 printing credit to each student network (Active Directory) account that will provide the equivalent of 200 free black and white pages at 5 cents per page, or 40 color pages at 25 cents per page. Once that print quota is reached, students will need to purchase prints at the same rate by adding money to their accounts online using a debit or credit card, or pay cash at any CSN Cashier’s Office. For more information visit csn.edu/printwise.

Solar Panels

Providing a sustainable working environment is a main concern for the College of Southern Nevada. As a part of this effort, CSN has been pursuing many avenues to provide a “greener” campus. After some research with local architects and engineers, solar panels appear to be one of the college’s best opportunities to help reduce our energy usage. To date, we already have several solar panel installations including:

- Cheyenne:** 100 Kw A/C, Culinary building
108 Kw A/C, Horn Theater
Solar Panel sign at Planetarium
- Charleston:** 100 Kw A/C, D building
30 Kw A/C, Fire Station
9 Kw A/C, M building,
- Henderson:** 84 Kw A/C, B Building
Solar Powered parking lot lighting

We have been fortunate to receive \$1,000,000.00 from the NV Energy Solar Generations program as well as \$56,325.75 from our own Student Government to help fund these installations. All of these efforts help the College not only save money, but become a responsible agency in terms of providing a sustainable environment.

Recycling

CSN’s recycling effort began over ten years ago with just a few wheeled and non-wheeled totes from Silver State Disposal and grew to over 150 totes with Republic Services. With a grant from the 2007-2008 Student Government, an ad-hoc committee was formed to determine ways to expand recycling. Today, the Faculty Senate Environmental Strategies Committee is charged with working on recycling efforts for the college.

In May 2009, Auburn Fiber was brought on board to help accomplish the goal of recycling cardboard, paper, plastic, aluminum, and provide on-site shredding.

Today, the recycling program includes recycling stations, recycling totes, compactors and recycling dumpsters spread between CSN’s three main campuses.

THE CSN EMERGENCY NOTIFICATION SYSTEM (ENS)

The ENS is intended to provide members of the campus community immediate information in the event of a major crisis or emergency (e.g. fire on campus, natural disaster, or criminal activity).

This system instantly delivers to you important emergency alerts, notifications, and updates to any device(s) you select (e.g. email account, cell phone, pager, etc.). ENS is your personal connection to real-time updates including instructions in case of an emergency.

Once you have logged into this application, you will be able to provide emergency contact information that the College can use to contact you in the event of an emergency. **Access to this system is available only to currently enrolled students as well as currently employed faculty and staff. Once you have enrolled, your notification will be activated within 24 hours.**

To sign up for ENS alerts, go to www.csn.edu/alert. It only takes a few minutes to activate your ENS account. **Please note your CSN e-mail account must be activated prior to ENS activation.**

CSN FOUNDATION

The CSN Foundation is a non-profit organization committed to secure private funds and cultivate friends and community partners in support of CSN. Donations to the Foundation are donor directed to help with building projects, support innovative educational programs, services, and scholarships.

You can support the college by attending by contributing to the CSN Foundation. Your gifts are tax deductible and help the College of Southern Nevada create bright futures for students. To learn more about the CSN Foundation, please call 702-651-7301 or visit our web page at www.csn.edu/foundation.

CAMPUSES

Charleston Campus

Charleston Campus at 6375 West Charleston Boulevard is located in Las Vegas and houses the President, upper administration, and Human Resources for CSN. Programs supported at Charleston include: the Veterans' Educational Center, a Dental Clinic, Mojave Mental Health Services, cardio-respiratory, nursing, and many other health-related programs. This campus is also home to Nevada Public Radio station KNPR.

Cheyenne Campus

The Cheyenne campus is located at 3200 East Cheyenne Avenue in North Las Vegas. The centralized student services area makes easy access to critical support areas. Major programs supported at Cheyenne include: Transportation Technology, Cisco Systems, Culinary Arts (producing gold and silver medal winners in numerous national competitions), Automotive Service Education, Planetarium, and the Nicholas Horn Performing Arts Center, hosting hundreds of college and community events each year.

Henderson Campus

The Henderson Campus is located at 700 College Drive in Henderson. Students can take general education courses and specialized classes in fields such as air conditioning technology, aviation, welding, police training and horticulture. This campus is home to the Southern Desert Regional Police Academy, the Morse Stadium and Lied Baseball Complex (used by CSN's national championship baseball and softball teams), and the award winning horticulture program, supported by experimental gardens and four greenhouses.

Green Valley High Tech Center

The Leslie and Joan Dunn Center at 1560 West Warm Springs Road is located next to Green Valley High School, and provides core general education classes supported by a computer lab, smart classroom, and specialized labs and offices.

Mesquite Center

The Mesquite Center at 140 North Yucca Street, includes a computer lab, phlebotomy lab, certified nursing assistant lab, and smart classroom. Classes are available in general education, self-enrichment, gaming, the Certified Nursing Assistant program, and a variety of customized training options.

Moapa Valley Center

The Moapa Valley Center is located at 2400 North St. Joseph Street, at Moapa Valley High School. The center provides academic classes, online course support, a computer lab, dual credit for high school juniors and seniors and courses for lifelong learners, degree and transfer-seeking students.

The Nellis Center

The U.S. Air Force contracts with the College of Southern Nevada to provide classes on base that satisfy requirements for the Community College of the Air Force (CCAF) degree. It services active duty personnel, reservists, family members, retirees, DOD personnel and some civilians to maximize space utilization.

Sahara West Center

The Sahara West Center is located at 2409 Las Verdes Street in Las Vegas. The center offers courses in community and personal enrichment, healthcare continuing education, business continuing education, safety training, workforce training, and adult literacy (ESL and GED).

Summerlin High Tech Center

The Bob and Sandy Miller High Tech Center is located at 333 South Pavilion Center Drive next to Palo Verde High School. It is home to the Ornamental Horticulture/Floral Design programs, and partners with the Clark County School District to provide Jumpstart programming for Palo Verde High School students.

Western High Tech Center

The William and Dorothy Raggio High Tech Center, located at 4601 West Bonanza Road, is next to Western High School. It provides general and transfer courses, workforce training, Clark County School District program classes, and is home for the CADD, Design and Construction Programs. Many community events are presented at this site each year.

ADMISSION INFORMATION

General Policy

CSN is an open access institution and any adult can apply for admission and enroll in classes. Those applicants who are specifically seeking a degree or certificate of achievement must have a high school diploma, its equivalent, or be a qualified international student to be admitted to CSN. High school students who are 16 years old, and are juniors or seniors, may be admitted and may enroll at CSN, subject to the approval of appropriate high school and college officials.

A student who does not meet these admission requirements may apply to be admitted under alternative criteria. Students may be admitted under alternative criteria by satisfying one of the following requirements:

1. Placement testing scores sufficient for entry into ENG 100 and Math 095 or equivalent; or
2. Transfer credits equivalent to NSHE's ENG 100 and Math 095 with grades of C or better from another accredited college or university; and good standing at a previously attended institution, including – but not limited to – records of disciplinary action.

Please contact a CSN Testing Center at www.csn.edu/testing for information about placement testing and the General Educational Development (GED) tests. GED preparation is offered at CSN through the Division of Workforce and Economic Development (sites.csn.edu/workforce).

Effective fall 2012, as governed by the Board of Regents of the Nevada System of Higher Education (NSHE), College of Southern Nevada (CSN) must randomly select 10% of all newly admitted students to verify high school or GED completion every fall and spring semester. Students that do not respond to the high school diploma/GED verification audit will be changed from Degree Certificate-Seeking (DCS) to Degree-Seeking Non-Financial Aid Eligible (DGNFA) effective the following semester.

Admission to CSN implies general admission only and does not constitute admission to programs designated as limited entry. Acceptance to limited entry programs will be contingent upon fulfillment of conditions specified by the requirements of each program. Admission to CSN does not guarantee financial aid eligibility. Current federal, state and institutional regulations and policies regarding financial aid and eligibility requirements are available at www.csn.edu/sfs. To apply to the College of Southern Nevada go to our website at www.csn.edu, select MyCSN and click on “Apply for CSN Admissions.”

STUDENT TYPE

Transfer Student

Transferring From Another Institution

Transfer students may request that all previously attended schools, colleges and universities send official copies of their transcripts to the Office of the Registrar. CSN only accepts transfer credits from regionally accredited institutions. The accreditation of the institution and the listing published in the AACRAO Transfer Credit Practices for the year in which the applicant attended a specific institution governs the acceptance of transfer credit. The number of credits awarded will be determined by the college rating and the guidelines that follow:

- The Office of the Registrar evaluates transcripts from other institutions upon request and determines which credits may be applied towards a CSN degree or certificate.
- Students must have an official transcript mailed or hand carried and unopened to the Office of the Registrar.
- After the student has verified that his or her transcript has arrived in the Office of the Registrar, he or she must fill out a Request for Transfer Credit Evaluation Form and submit that to the Office of the Registrar. The form can be downloaded from our website at www.csn.edu/pages/4473.asp.
- To meet graduation requirements, a transfer student must complete the appropriate 15 credit hours in residence within the degree or certificate.
- The College will also accept a maximum of 16 credits from non-traditional sources.
- A student must take the appropriate 15 credit hours in residence in his or her major occupational area or Special Program Requirement for an Associate of Applied Science degree or a Certificate of Achievement.
- The College will accept **D** grades as elective credit provided the cumulative grade point average from the transfer institution, in the semester in question, is 2.0 or above.
- If a student's cumulative GPA is below 2.0, **D** or below grades will be denied.
- Grades of **D+**, **D**, and **D-** cannot be used to fulfill major occupational area Special Program Requirements in Associate of Applied Science degrees or Certificate of Achievement.
- Once all official transcripts have been received and the student has submitted a Transfer Credit Evaluation Form, allow up to eight weeks for processing.
- Students will be notified via email once the transfer credit evaluation is completed. The official evaluation report will be available on MyCSN under Transfer Credit Report.

Current High School Student

CSN offers a number of special programs for qualified high school students. Some programs allow high school students to earn both high school and college credit simultaneously. High school students should check with their school counselor regarding necessary enrollment forms. Unless students are 18 years old, parental permission is required for all programs. Many programs require that students pay college tuition or take a placement test. Special programs for high school students include:

College of Southern Nevada High School: This CCSD dual credit program provides juniors and seniors the opportunity to attend high school on our college campuses. Students take their core high school classes with high school instructors while pursuing any of the CSN degree programs at the same time. Students graduate from Clark County School District with all of the available diploma opportunities and have the opportunity to earn an Associate's Degree. This is an application program with a limited enrollment on each campus site.

Jumpstart Dual Credit Program: Jumpstart is a Clark County School District (CCSD) and College of Southern Nevada (CSN) partnership, which offers high school students the opportunity to earn 100-level college credits at a reduced fee of only \$50 per class, plus the technology fee of \$5.50 per credit. All Jumpstart courses are offered at the high school campus by CCSD high school instructors who are "college certified" to teach college rigor courses.

Learning and Earning Program: This program is a direct service dropout prevention and intervention program. Pending funding, students are referred by their high school counselors during 11th or 12th grade and participate in counseling, mentoring, job skills development, job placement, tutoring sessions, and community referrals. The goal of the program is to give Clark County School District students, who are in jeopardy of not graduating with their peers, the opportunity to improve their academic status.

Tech Prep: Earn Free College Credit for Your High School CTE Elective Classes. Tech Prep is a program for current CCSD, LCSD, and NCSD high school students in articulated high school Career and Technical Education (CTE) elective classes and/or programs. Eligible students must earn an **A** or **B** in all semesters of the articulated high school CTE elective class(es) to receive CSN college credit at no cost. For complete eligibility requirements, application information, and deadlines visit our webpage at www.csn.edu/techprep.

International Students

The International Center is a comprehensive student-centered office that assists students with transition to the American system of higher education. We provide students with admissions, orientation, academic and personal counseling, college success skills education, and advisement of immigration regulations. Our mission is to

assist international students in achieving their academic goals by providing accessible services with supportive and culturally-sensitive staff.

International Student Admissions: This school is authorized under Federal law to enroll F-1 nonimmigrant students. U.S. Government regulations are subject to change.

CSN welcomes students from all countries to apply for admission through the International Center. International students are required to maintain a minimum 12-credit full-time student status at CSN per F-1 visa regulations. Admitted students are required to take the Math placement test and either English or English as a Second Language (ESL) placement tests. Students admitted with a minimum TOEFL iBT of 71 (or equivalent) are eligible to enroll in ENG 113 without taking a placement test. Students admitted with lower TOEFL scores (or equivalent) must take the ESL placement test. All first semester International Students must register, add, and drop classes through the International Center.

International Students who do not have college-level English skills will be given a conditional letter of acceptance, upon request, if they meet all of the admission requirements (except for the English level) and will be referred to intensive English language programs (IEPs) associated with CSN.

To apply for admission to the College and a course of study that leads to an Associate Degree or Certificate of Achievement, a student must provide the following:

1. A CSN International Student Application, completed, signed and dated. Forms and instructions are available online at: www.csn.edu/InternationalAdmissions.
2. A non-refundable application fee of \$25. Students will receive an email with instructions on how to pay the fee online after their application is received.
3. Proof of English proficiency: TOEFL test score of 45 iBT (133 CBT, 450 PBT); IELTS (academic test) score of 5.0; PTE (Pearson Academic Test of English) score of 43 or B1; iTEP score of 4; EIKEN Step Test score of Grade 2; NSHE administered Michigan test score of 70; SAT score of 440 (critical reading section); ACT score of 18 (writing section); successful completion of English Composition at a U.S. college or university equivalent to CSN's ENG 101; and graduation from a U.S. high school or passing scores on an accredited high school equivalency exam. With the exception of high school equivalency exams, test scores are required to have been earned within the last two years.
4. Official high school transcript or certified copies thereof must be submitted in English in order to verify successful completion of U.S. equivalent academic program. The transcript must include the date of graduation.
5. A personal statement is required. Please describe your educational goals, intended field of study, and your reason(s) for choosing CSN.

6. Proof of financial support or financial solvency is required. Strict immigration regulations severely restrict the employment of foreign nationals residing in the United States. Therefore, you must have adequate finances to support yourself while you are a student.

If your parents or someone else will support (or sponsor) you, then you must submit a sponsor letter signed by the person(s) supporting you that clearly states that your expenses will be paid by the sponsor or parent(s). CSN’s sponsor letter is available on our website at: www.csn.edu/InternationalAdmissions.

In an effort to prevent financial hardship for our international students, CSN requires a current bank statement (dated within 120 days of your application) showing a minimum of \$24,590 dollars (U.S.). This is the amount necessary to cover tuition and living expenses for this catalog’s academic year. The following is a general cost breakdown. Fees are subject to change without notice. Consult the International Center for the most recent fees. These are estimated costs. Personal expenses vary considerably.

Fees	Per Academic Year
Tuition and Fees.....	\$ 9,785
Room and Board	\$ 7,464
Personal and Transportation	\$ 5,097
Books and Supplies	\$ 1,020
Health Insurance	\$ 1,224
TOTAL.....	\$ 24,590

If you receive government financial aid, a scholarship, or accept a student loan from your home country, you must submit an original document verifying those funds. The above amounts are the minimum required to support one student.

Accompanying family members will require additional funds for support. Add an additional \$5,728 dollars (U.S.) for each dependent. International students entering the U.S. on student visas are considered non-resident students for tuition purposes. Please be aware that the College of Southern Nevada does not offer financial assistance to International Students.

7. Copy of the applicant’s passport page with personal information.
8. Mail Options Form available at: www.csn.edu/InternationalAdmissions.

Foreign nationals who apply while physically in the United States (visitors and transfer students from U.S. schools) must also provide the following immigration documents. Contact our office if you are on a visa other than F-1. We will determine if you qualify for a change of status through immigration. We will also determine if you are within the processing time.

9. A copy of your U.S. visa page (transfer and change of status students only).

10. A copy of your entry stamp/I-94 (transfer and change of status students only).
11. Copy of most current I-20 Form (transfer students only).
12. Transfer Form (transfer students only) indicating your SEVIS release date. The Transfer Form is available at www.csn.edu/InternationalAdmissions.

These admission requirements do not constitute admission to Limited Entry Health Sciences programs. International Students interested in Health Sciences programs must meet both the International Center and Health Sciences program requirements.

CSN requires students to purchase CSN’s approved health insurance policy each semester.

Application Deadlines: Transfer students are students who are transferring from a school within the U.S. All other students must comply with the General Application deadline. You should apply as soon as you have decided to attend CSN.

Semester	General	Transfer Student	Change of Status & Returning
Spring Semester	November 15	December 15	Contact our office for deadlines
Summer Semester	April 15	May 1	
Fall Semester	July 1	July 15	

For inquiries, please contact the International Center at 702-651-5820 or e-mail iss@csn.edu. Additional information is available at www.csn.edu/international.

Returning and Readmitted International Students: International students are considered “Returning” who have attended CSN in the past with a CSN I-20. If you match this description, you must check with our office **BEFORE** completing the application. You may be required to submit a different form.

Maintaining F-1 Visa Status: In order to maintain their student F-1 visa, per federal regulations, International Students must make normal or satisfactory progress toward their officially declared program. International Students must maintain a minimum of 12 credits hours each semester (excluding summer sessions) unless otherwise approved by the International Center at CSN. International (F-1) students are considered to be making normal or satisfactory progress when they:

- Successfully complete courses pertaining to their degree program. Students who attempt a disproportionate number of courses (more than 30% of the total semester course load) outside of their established degree program are considered not to be making normal or satisfactory progress.
- Maintain a minimum of 12 credits each spring and fall semesters, unless otherwise approved by the International Center at CSN. Students who fall below 12 credits without prior authorization are considered not to be making normal or satisfactory progress.

- In accordance with CSN's Academic Probation and Suspension Policy, International Students must maintain a minimum cumulative GPA of 2.0. International Students who are suspended may be subject to termination of their immigration status. Please see CSN institutional policies for academic probation and suspension.

International Students enrolled in CSN who hold F-1 visas must be advised of these requirements by the CSN International Center.

Limited Entry

Special Admissions Information for

Health Sciences Programs: Students seeking admission to one of the Health Sciences Programs should be aware that there are several additional procedures and policies. Some Health Sciences Programs are designated "limited entry," meaning that class sizes are limited. Prospective students must submit an application to the Limited Entry Office and be selected to a program in order to register for classes in limited entry programs. Information on admissions, selection procedures and application deadlines is available through the Health Programs Advising Offices, located on the Charleston campus in the lobby of Building K, Cheyenne campus in Room 1219, and Henderson campus in Room 136, Building B. Students must attend a Health Programs orientation to obtain detailed information on the limited entry application process and programs. There are also specific immunization, drug testing, and background check requirements for these programs.

Limited entry programs include:

- Advance Placement Nursing (LPN) to RN Bridge
- Cardiorespiratory Sciences
- Dental Assisting
- Dental Hygiene (AS and BS)
- Diagnostic Medical Sonography
- Health Information Technology
- Medical Coding
- Medical Laboratory Assistant
- Medical Laboratory Technician
- Medical Laboratory Scientist (BAS)
- Medical Office Assisting
- Medical Transcription
- Nursing (RN)
- Ophthalmic Dispensing
- Paramedic Medicine
- Pharmacy Technician
- Phlebotomy
- Physical Therapist Assistant
- Practical Nursing (PN)
- Radiation Therapy Technology
- Surgical Technologist
- Veterinary Technician

New for fall 2014:

- Cardiorespiratory Sciences (BAS)

ALTERNATIVE CREDIT OPTIONS

Advanced Placement Exams

Advanced placement and/or credit may be granted to entering students who have achieved appropriate scores on one or more of the Advanced Placement Tests offered by the College Entrance Examination Board. Students who receive AP advanced placement or credit progress immediately to more advanced courses and may apply these credits toward the total required for a degree.

Advanced Placement Subjects:	Scores:
Art – AP Art History Test	
Art for non-Art Majors only (3 credits)	3-5
Art – AP Art Studio Test	
Art for non-Art Majors only (3 credits)	3-5
Art – AP Art Portfolio Test	
Art for non-Art Majors only (3 credits)	3-5
Biological Sciences – AP Biology Test	
BIOL 189 (no lab)	3
BIOL 189 and 196 after advisor evaluation (6 credits no lab)	4-5
Chemistry – AP Chemistry Science Test	
CHEM 121 (4 credits no lab)	3
CHEM 121 and 122 (6 credits no lab)	4-5
Economics – AP Macroeconomics Test	
General Electives (3 credits)	3
ECON 103 (3 credits)	4-5
Economics – AP Microeconomics Test	
General Electives (3 credits)	3
ECON 102 (3 credits)	4-5
English – AP Composition/Literature Test	
ENG 101 (3 credits)	4-5
English – AP Language/Composition Test	
ENG 101 (3 credits)	4-5
Foreign Language – AP Language/Literature Test	
Equivalent to 111 Placement in 112 (4 credits)	3
Equivalent to 111 and 112; Placement in 226 (8 credits)	4-5
History – AP American History Test	
HIST 101 or 102 (3 credits)	3
HIST 101 and 102 (6 credits)	4-5
<i>(Both cases include the U.S. Constitution requirement)</i>	
<i>(Both cases include the NV Constitution requirement if taken at Nevada high schools, otherwise student will receive U.S. Constitution credit ONLY)</i>	
History – AP European History Test	
HIST 106 (3 credits)	3
HIST 106 plus 3 credits (6 credits)	4-5
<i>(Both cases exclude the U.S. Constitution requirement)</i>	

Advanced Placement Subjects:	Scores:
Mathematics – AP Calculus Test	
AB Mathematics MATH 181 (4 credits)	4-5
BC Mathematics MATH 182 (4 credits)	4-5
Physics – AP Physics Test	
Science (3 credits)	3
PHYS 151 and 152 (6 credits)	4-5
Political Science – AP U.S. Government Test	
U.S. Constitution (3 credits) <i>(Excludes the Nevada Constitution requirement)</i>	3-5
Psychology – AP Psychology Test	
PSY 101 (3 credits)	3-5
Statistics – AP Statistics Test	
STAT 152	4-5

Challenges

The College recognizes the fact that students accumulate a great deal of information outside the classroom without formal instruction or from previous academic or occupational instruction. There are times when this background may be extensive enough to satisfy the requirements of courses offered by the College either through various examinations, course substitutions or waivers or credit for nontraditional education. A student interested in these options should inquire with the appropriate department chair for courses which may be challenged in these ways.

Challenge Examinations

Students who wish to challenge courses under the Credit by Examination provision must pay a nonrefundable fee of \$25.00 for each course challenged. Policies of the College relating to challenge exams are as follows:

- Only currently enrolled students are eligible to take challenge exams.
- No more than 15 credits required for a degree may be obtained through challenges.
- Courses cannot be challenged if a student has taken an advanced course in the same area.
- Challenge examinations are not considered resident credit.
- Challenge examination credit does not count as part of a student's credit load for any given semester nor are they computed into the grade point average.
- A student may not retake a challenge.
- Challenge examinations are not transferable and in many cases will not count for licensing agencies.
- Successful challenge examinations are posted as a **TP** grade (Pass) on the student's transcript.
- Students must complete the challenge during the same semester in which the request was made.

The College reserves the right to deny any petition for credit by examination.

College Level Examination Program (CLEP): The College Level Examination Program (CLEP) is a specific type of challenge examination. Credit may be granted for the satisfactory completion of the CLEP general or CLEP subject examinations. Students who wish to use credits from CLEP should submit **official** CLEP results and a request for the Transfer Credit Evaluation Form to the Office of the Registrar.

- **CLEP General Examinations** – A maximum of six semester credits may be granted for each of the five general examinations for a total of 30 credits in English, Composition, Natural Science, Mathematics, Humanities, and Social Sciences. Test scores must be 50 or above (for military CLEP scores must be 500 or above). For the General English CLEP examination, a satisfactory essay is required in order to be granted three credits for College Composition (ENG 101) and three for general elective credits.
- **CLEP Subject Examinations** – A maximum of three semester credits may be granted for each institutionally approved subject examination for scores of 50. Credit for Composition II (ENG 102) may be awarded with a score of 60 or above when taking the Analyzing and Interpreting Literature Exam. Additional credit may be granted for selected examinations as permitted by institutional policy.

College Board Advanced Placement Examination (CBAPE): In accordance with the NSHE Board of Regents Policy, CSN credit may be granted to students who have achieved appropriate scores of 3, 4, or 5 on one or more of the Advanced Placement Tests offered by the College Entrance Examination Board. The tests are administered each year in May and are available to all high school seniors who have taken advanced placement courses in high school and to other interested students who feel they have knowledge of the given subject being tested equal to the college level course on the subject. Contact the Office of the Registrar for more information.

Non-Traditional Education (NTE): Credit for work experience will be evaluated on the basis of a personal interview, verification of occupational experience, and the results of occupational competency examinations. Applicants must submit all relevant official documents, supportive materials, and specific information on the length, content, and other pertinent information concerning the work or life experience to the department chair or designee. Request for NTE credit will be evaluated and awarded in the sole discretion of the academic department.

These non-traditional sources include:

- Apprenticeship instruction and training
- Certificate training
- Correspondence schools
- Extension courses
- Military training

CLEP SUBJECT EXAMS			
CLEP SUBJECT	ACE RECOMMENDED SCORE	SEMESTER HOURS	COURSE WAIVED
American Literature	50	3	ENG 241
Analyzing and Interpreting Literature	60	3	ENG 102
College Composition (College Composition Modular is not accepted at CSN but is given for other institutions)	50	3	ENG 101
Humanities	50	3	HUM Elective
French Language, Level 1	50	4	FREN 111
French Language, Level 2	70	8	FREN 111/FREN 112
German Language, Level 1	50	4	GERM 111
German Language, Level 2	70	8	GERM 111/GERM 112
Spanish Language, Level 1	50	4	SPAN 111
Spanish Language, Level 2	70	8	SPAN 111/SPAN 112
American Government	50	3	U.S. CONSTITUTION
History of the United States I: Early Colonization to 1877	50	3	HIST 101
History of the United States II: 1865 to Present	50	3	HIST 102
Microeconomics, Principles of	50	3	ECON 102
Macroeconomics, Principles of	50	3	ECON 103
Psychology, Introductory	50	3	PSY 101
Sociology, Introductory	50	3	SOC 101
Western Civilization I: Ancient Near East to 1648	50	3	HIST 105
Western Civilization II: 1648 to Present	50	3	HIST 106
Biology	50	3	BIOL Elective
Calculus	50	3	MATH 181
Chemistry	50	3	CHEM Elective
College Algebra	50	3	MATH 124
College Mathematics	50	3	MATH 120
Precalculus	50	3	MATH 126
Natural Science	50	3	SCIENCE Elective

- Post-secondary proprietary institutions including business colleges
- Service Members Opportunity College (SOC)
- Work experience

Students applying for NTE credits must be admitted to the College of Southern Nevada. NTE credits can only apply towards the degree of Associate of General Studies (AGS), Associate of Applied Science (AAS), and the Certificate of Achievement (COA). Generally a maximum of sixteen (16) credits can be applied towards the AGS and the AAS, and a maximum of eight (8) NTE credits can be applied toward the COA. However, there is an opportunity to exceed the foregoing limit through application to and

approval from the Vice President – Academic Affairs, in addition to the regular approval process.

NTE credits can only be applied towards Special Program Requirements and cannot be used towards General Education Requirements. NTE credit cannot exceed the credit value of the equivalent course. Students who wish non-traditional education credit must pay a nonrefundable fee of \$25.00 per course. Credits earned from NTE sources will not apply toward satisfying the minimum residence credits required for graduation purposes. NTE credit is not included in a student's cumulative CSN grade point average (GPA). NTE credit awarded by CSN may not be transferable to another educational institution.

CLASSIFICATION OF STUDENTS

Student enrollment is determined by the Office of the Registrar based on the number of credits they have completed. This calculation is freshman: 29 credits or less, sophomore: 30-59 credits, junior 60-89 credits (limited entry bachelors); 90 or more credits (limited entry bachelors).

Full-time and Part-time Students

- Students who register for at least 12 credits are defined as full-time.
- Students who register for at least nine credits but no more than 11 credits are defined as three-quarter time.
- Students who register for at least six credits but no more than eight credits are defined as half-time.
- Students who register for five or fewer credits are defined as less than half-time.

FINANCIAL AID

The Financial Aid Department provides information to students applying for financial aid, which includes scholarships, grants, work-study, and loans. Last year, CSN offered more than \$90 million to over 30,000 applicants. Financial Aid has offices located at the Charleston, Cheyenne, and Henderson campuses.

CSN accepts two applications for full consideration: 1) the Free Application for Federal Student Aid (**FAFSA – school code 010362**) and, 2) the CSN Scholarship Application. Both applications are web-based and linked to the CSN website. Current and prospective students are encouraged to file applications as early as possible, beginning in the month of January prior to the start of the following academic year. Early applicants receive priority consideration for all financial aid programs – including those programs with limited funding.

CSN accepts FAFSA applications for consideration of aid at any time prior to the end of enrollment. The CSN Scholarship Application dates may vary each year and may be extended due to a low number of eligible applicants. Please check our scholarship website frequently for deadline dates. Students intending to use financial aid to pay their tuition and fees must apply on or before June 1st for the following fall semester, and on or before November 1st for the following spring semester.

Once an application is received, it is reviewed for eligibility and documentation requirements. If required, Financial Aid will update your “To Do” list in MyCSN as well as send you an email requesting supporting documents to validate the content of your FAFSA. Each application will also be reviewed for compliance with the Satisfactory Academic Progress Policy and only those applicants making progress to their degree will be eligible for financial aid awards (including loans). The policy is available on the Financial Aid website at www.csn.edu/pages/627.asp. Award Notifications are sent at the beginning April for fall enrollment.

Student Aid Programs

Financial assistance is available in the form of grants, work-study programs, scholarships, and loans. These four types of aid programs are funded by federal, state, institutional, and private sources.

Grants are a type of aid awarded to undergraduate students with financial need and are typically applied to the recipient’s tuition and fees. The College also offers to qualified students, the bookstore credit program to assist with the purchase of required textbooks and course materials. Work-Study programs employ students in part-time jobs while they attend school. CSN offers a variety of scholarships from both public and private donors. Unlike grants, scholarships and Work-Study, loans are borrowed funds that must be repaid, with interest.

Financial Aid automatically offers loans or Work-Study to CSN students. FAFSA applicants who desire a student loan must meet additional eligibility criteria including accepting the loan, completing the CSN Loan Application, fulfilling entrance counseling requirements, signing a Master Promissory Note (MPN), and providing a legible copy of a government-issued ID. Students interested in Work-Study jobs should visit the Financial Aid website at www.csn.edu/admissions/aid/options/workstudy.asp and CSN Career Services to review the job vacancy catalog.

Aid Delivery/Financial Aid Census Date (FACD)

Students who receive financial aid, including loans, are required to attend classes. Financial aid disbursements begin no earlier than seven days after the start of the semester. Excess aid is refunded by the CSN Cashier. Students are encouraged to sign up for direct deposit to receive the excess funds quickly. Direct deposit delivers excess financial aid directly to a student’s bank account and avoids postal delivery delays. Funds awarded as financial aid excess are intended for educational expenses only and must be used by the recipient to support their attendance at CSN. Students must be enrolled and attending at least six credits at the time excess loan disbursements are delivered.

CSN uses a “Financial Aid Census Date” (FACD) to determine a student’s actual aid eligibility. The student’s enrollment on this date will be “locked-down” and the financial aid assigned to the student will be recalculated based upon his/her enrollment on that date. The aid recipient’s enrollment will be compared with their enrollment at the time of the original aid disbursement and one of two things will happen:

- If the enrollment is higher or lower at FACD than the enrollment level at the time of original payment, the student’s aid package will be adjusted to reflect the new eligibility amount prior to disbursement being made.
- If the enrollment is the same at FACD than the enrollment level at the time of original payment, no change will be made.

Attendance Requirement

Recipients who stop attending classes or stop logging-on to their distance education classes, or those who do not begin attending classes/never logged-in to their distance education classes, are subject to eligibility recalculation and may have to pay back some (or all) of the funds. Please review the Return to Title IV Policy on our website www.csn.edu/pages/627.asp#PR.

SATISFACTORY ACADEMIC PROGRESS

CSN students intending to earn a certificate or degree must maintain satisfactory academic progress in an eligible degree or certificate program. To be eligible for funding, all financial aid applicants must be certified as meeting the CSN Satisfactory Academic Progress Policy. For the most current information about Satisfactory Academic Progress, please visit www.csn.edu/sfs. Financial Aid will evaluate the applicant's entire academic history including all CSN coursework and transfer credits. The minimum standards of CSN's Satisfactory Academic Progress Policy include:

- A. General requirements:** At least annually and in response to the receipt of a student's Free Application for Federal Student Aid (FAFSA), Financial Aid will evaluate:
- Attempted semester hours including all course work graded **W**, **F**, or **I**, and credits taken for audit.
 - Completed semester hours including all course work earned for a letter grade and credits graded as Satisfactory/Pass.
 - Students who have received a **W** or **F** in a course may only attempt the same course three times.
 - Transfer semester hours do not count in the calculation of the cumulative grade point average but are included to calculate the maximum time frame standard.
 - Repeated course work is included to monitor completion rate and the maximum time frame standard.
 - Consortium course work is included to monitor satisfactory academic progress.
 - English as a Second Language courses are included to monitor satisfactory academic progress.
- B. Financial Aid (Title IV Funds) Recipients:** To receive Title IV funds from CSN, applicants must be certified as compliant with the CSN Satisfactory Academic Progress Policy. Applicants must meet the following requirements:
1. Be admitted to CSN, have declared a major, and be in a degree seeking program.
 2. Achieve at least a 2.0 GPA at CSN, and;
 3. Successfully complete at a pace of at least 67% of attempted credit hours:

Number of Credits Attempted Per Semester	Minimum Number of Credits Earned (successfully completed) per semester
Full-Time (12 or more credits)	9
Three-Quarter Time (9-11 credits)	6
Half-Time (6-8 credits)	6
Less-Than Half-Time (5 or less credits)	All attempted credit (5 or less)

4. Students must complete their program within 150% of the published length of the educational program, such as:
 - Certificate Programs that require 40 credits for completion will be allowed $40 \times 150\% = 60$ credits
 - Associate Degree Programs that require 60 credits for completion will be allowed $60 \times 150\% = 90$ credits
 - Bachelor Degree Programs that require 120 credits for completion will be allowed $120 \times 150\% = 180$ credits
5. Transfer credits accepted toward completion of the student's program must count as both hours attempted and hours completed.
6. The academic record for all students is reviewed at the end of each term. This review includes all terms attended at the College of Southern Nevada, without regard to if financial aid was received for that term. If a student fails to meet either of the above requirements, they will be placed on "Warning" – for the following term. While on "Warning" status, students will continue to remain eligible for financial aid.
7. At the conclusion of the "warning" semester, students will be re-evaluated. If the student meets both the GPA and the pace conditions of the above criteria and has not exceeded maximum time frame the satisfactory academic progress status will revert back to a good standing.

If either or both of the qualitative and/or pace measurements are not met, the student will move to a suspended status and become ineligible for financial aid unless they successfully appeal and are placed on probation. Without an approved appeal, ineligibility will persist until both qualitative and pace measurements meet the minimum requirements. Visit the Financial Aid website at www.csn.edu/pages/627.asp for additional information and a link to the *Satisfactory Academic Progress Appeal Form*.

C. International Students – Maintaining F-1 Visa

Status: In order to maintain their student F-1 visa, per federal regulations, International Students must make normal or satisfactory progress toward their officially declared program. International Students must maintain a minimum of 12 credits hours each semester (excluding summer sessions) unless otherwise approved by the International Center at CSN. International (F-1) Students are considered to be making normal or satisfactory progress when they:

- Successfully complete courses pertaining to their degree program. Students who attempt a disproportionate number of courses (more than 30% of the total semester course load) outside of their established degree program are considered not to be making normal or satisfactory progress.
- Maintain a minimum of 12 credits each spring and fall semesters, unless otherwise approved by the International Center at CSN. Students who fall below 12 credits without prior authorization are considered not to be making normal or satisfactory progress.
- In accordance with CSN's Academic Probation and Suspension Policy, International Students must maintain a minimum cumulative GPA of 2.0. International Students who are suspended may be subject to termination of their immigration status. Please see CSN institutional policies for academic probation and suspension.

International Students enrolled in CSN who hold F-1 visas must be advised of these requirements by the CSN International Center.

TESTING CENTERS

Placement tests are available for potential CSN students, at no cost, at the three main campuses and additional testing sites. All placement test scores are good for two years and placement tests may be *retaken* after a two week waiting period. No specific placement test, however, may be taken more than twice in any six month period.

Any person who lives outside of Las Vegas may take a placement test without traveling to Las Vegas. Please call 702-651-7465 or 702-651-5733 for more information.

All new CSN degree/certificate seeking or transfer students are required to take the English and Math placement tests or present an alternate method of placement.

Alternate Methods of Placement into English and Math:

1. Provide ACT/SAT:

ACT/SAT ENTRANCE EXAM FOR PLACEMENT**Requirements:**

- Scores are less than two (2) years old
- Accepted forms:
 - Original Mailed SAT/ACT forms
 - Sealed High School Transcript
 - High School Faxed Transcript – to CSN Testing Center
- No internet or copies

PASSING SCORES

ENGLISH 101:	ACT	18
	SAT	440 (Critical Reading)

MATH:

Math Course	ACT	SAT
93	13 – 15.....	350 – 399
95	16 – 18.....	400 – 449
96, 120	19 – 21.....	450 – 499
122, 124, 126	22 – 24.....	500 – 549
127, 128, 132, 152.....	25 – 27.....	550 – 599
181, 251	28.....	600 and Above

2. Students may be able to transfer in prior college credit by submitting a Transcript Evaluation Form to Admissions and Records.

Accuplacer English Placement Test: Students must take an English placement test prior to registering for any English class. Your placement results may be reviewed on MyCSN.

English as a Second Language Test: Please call Cheyenne 702-651-4475 or Charleston 702-651-5736.

Accuplacer Math Placement Test: Students must take the math placement test prior to registering for math class except for the lowest level.

Accuplacer Reading Placement Test: Students must take the reading placement test prior to registering for any reading class.

Accuplacer Business Letter Writing Placement Test (BUS 108): Students must take a placement test prior to registering for BUS 108.

GED and Pre-GED: For detailed information visit www.csn.edu/testing and click on the GED link.

CLEP and Dantes: These tests enable non-traditional and traditional students to earn college credit based on life achievement and job skills. These tests are offered on the three main campuses.

Proctoring: *The Testing Centers proctor tests for courses taught at CSN free of charge (i.e. make-up tests and distance education/instructor exams). Proctoring for tests from other institutions (including all other Nevada System of Higher Education institutions: i.e. UNLV, UNR, NSC, WNC, TMCC, or GBC) is available **for a fee**.*

Career Interest and Aptitude: These tests (Strong, MBTI and WOWI) are available on the three main campuses for a fee.

For more detailed information visit: www.csn.edu/testing.

For Testing Hours and addresses please call:

Cheyenne.....702-651-4050

Charleston.....702-651-5733

Henderson.....702-651-3128

STUDENT ORIENTATION FOR SUCCESS

The Student Orientation for Success, or S.O.S. for short, familiarizes the new student to CSN's academic programs, advising and course scheduling, online learning, support services, resources, policies, and paying for college. Orientation helps new students plan for their academic goals and complete their program of study on time. The orientation is the first step to becoming a college graduate. There is a lot a student needs to know to succeed and the S.O.S. orientation has all the tools to start the student on the right path.

ADVISING AND SUCCESS COACHING SERVICES

First-time college students without transfer credits, undecided or *students without a declared major*, and *Associate of General Studies (AGS)* students work with an advisor/success coach to build a first-term schedule and choose a suitable academic program based on unique skills and interests. In addition to these selected advising services, advisors/success coaches help *all CSN students* – regardless of major or number of earned credits – in building the necessary skills to succeed in college. Services include assessing personal strengths and limitations, learning academic success strategies, exploring careers conducive to appropriate major selection, accessing campus and community resources, and connecting to campus life.

The Office of Advising and Coaching Services also coordinates the Faculty Electronic Early Warning System (E-Alert) that allows CSN's instructional staff to collaborate with Student Affairs in offering struggling students timely assistance to pass their class. Professors can place an E-Alert through the class roster in MyCSN by selecting the E-Alert Box located next to the student's NSHE ID number. Once received, Advising and Coaching Services contacts the alerted student and offers support services, strategies, and interventions that help in successful course completion. For more information about the Office of Advising and Coaching Services or to schedule an appointment, visit www.csn.edu/advising. Students may also email advising@csn.edu or link to the Advising Chat-Room at www.csn.edu/pages/663.asp to inquire about general first-time student information.

NOTE: *Returning, continuing, and transfer students with declared majors* seek academic advice from **ACADEMIC SCHOOL COUNSELORS** in their selected major/department. Academic counselor information is available at www.csn.edu/success/.

ACADEMIC SCHOOL COUNSELORS

Counselors help *returning, continuing, and transfer students with declared majors* craft long-term academic plans, select courses, and conduct degree audits in preparation for graduation. For counselor contact and appointment information by academic school/department please go to www.csn.edu/success/.

NOTE: *First-time college students without transfer credits*, undecided or *students without a declared major*, and *Associate of General Studies (AGS)* students work with an advisor/success coach to build a first-term schedule and choose a suitable academic program based on unique skills and interests.

REGISTRATION INFORMATION

Once a student has been admitted to CSN he/she may register for classes online via MyCSN at www.csn.edu or in person at the Office of the Registrar at any of the three main campuses.

Course Registration

1. Registration in a class must be completed by 11:59 p.m. on the day before the session begins (as defined in the College Calendar).
2. Exceptions to registration deadline:
 - a. Exceptions are limited to:
 - i. Restricted courses requiring permission of instructor.
 - ii. Courses requiring auditions or try-outs.
 - iii. Courses for Special Populations or Cohorts, including but not limited to Jumpstart and courses designated in a Memorandum of Understanding.
 - iv. Students dropped due to human or system errors made by the institution including a delay in financial aid awards caused by the institution.
 - v. Courses that were cancelled within 6 days of the start of the session.
 - b. Exceptions require permission of appropriate instructor(s) and the department chair. The communications can be done via email or official form. The student must be enrolled in the class by the end of the first week of the session.

Course Withdrawal

PLEASE NOTE: Before withdrawing from a course, students are strongly encouraged to discuss their decisions with an academic counselor, academic adviser or success coach AND Financial Aid since these decisions may affect a student's financial aid and Satisfactory Academic Progress. Any such students receiving financial aid may find their awards reduced.

1. Instructors do not have the option of withdrawing students. The student must receive a grade of **A** through **D-**, **F**, **Pass**, **I** or **AU** if still on the roster after the 60% point in the session (refers to the length of the session in days, not the number of assignments or percentage of points earned. Refer to the College Calendar for the appropriate date).
2. CSN administration may withdraw a student at any time during the session for just cause including, but not limited to failure to pay for the course and violations of the Student Conduct Code.
3. Students with documented exceptional circumstances may follow the grade change process to request a grade change to **W**.
4. Students may withdraw from a course with a grade of **W** during the first 60% of a session, measured by time, not assignments. If the withdrawal occurs during the refund period, the class will not appear on the student's transcript. When withdrawing from the class, the official withdrawal date is the date processed by the Office of the Registrar, not the date last attended, unless the two dates coincide.
5. In order to adhere to financial aid guidelines, at the end of the second week of the semester or summer session, the instructor submits to the Office of the Registrar the names of students who have not participated at all in the course. Participation is defined by the U.S. Department of Education to mean physically attending a class with direct interaction between the instructor and students and/or submitting an academic assignment and/or taking an exam, interactive tutorial or computer-assisted instruction and/or attending a study group assigned by the institution and/or participating in an on-line discussion about academic matters and/or initiating contact with the faculty member to ask a question about the academic subject studied in the course.

Students Registering for a Full eLearning Class

If an eLearning class is full, you must contact the instructor by email for permission to register for the class. You can locate the instructor's email address by going the College Directory page on the CSN web site. When emailing the instructor please include your first and last name, social security number, NSHE number, class name, and call number. If the instructor gives you permission to enroll in the class, the instructor will forward the information to the Office of eLearning for processing.

Auditing Classes

POLICY: To audit a course means the student will enroll in the course but receive no credit or grade.

Students should be aware that:

- Federal financial aid will not pay for audited courses, and students should not include aid for audited courses in their financial planning.

- Satisfactory Academic Progress related to federal financial aid takes attempted credits into consideration when assessing a student's ongoing eligibility for federal financial aid. Credit-to-Audit conventions are counted among "attempted" credits but not as "completed" credits for financial aid purposes.

Students are strongly advised to consult with an academic counselor or advisor and Financial Aid, if the student receives financial aid **PRIOR** to making any course registration changes.

1. Except for programs with applicable limitations (such as limited-entry or specialized accreditation), a student may elect to audit a course.
2. A student must pay the normal registration fees for audited courses.
3. Audited courses will **NOT** be counted as part of the academic load when full-time or part-time status is reported, for any reason, to any internal or external office or agency; this includes, by way of example only, the financial aid office, Social Security Administration, an employer and others.

Course Auditing Procedures

1. To audit a course, a student must register in person for the course and pay the regular fees (and tuition, if applicable).
2. Credit to Audit: To change the status of a course from credit to audit, a student must complete the change on or before the last day to withdraw. Students must sign a statement acknowledging the consequences of their decision.
3. Students cannot change their status from audit to credit.
4. All enrollment changes are processed through the Office of the Registrar.

ENROLLMENT VERIFICATION

To request enrollment verification, students must go to MyCSN after the start of a semester. To access the online enrollment verification system the student's social security number must be in the system. Enrollment verification is free.

CREDIT LOAD

1. The normal class hour load for full-time undergraduate students who are not on academic probation is 12-19 credit hours each semester. Only students with a CSN grade point average of **B** (3.0) or higher may enroll for more than 19 hours. The table below shows the maximum credit hours an undergraduate student can enroll for depending on academic standing.

Academic Standing	Fall / Spring Semester	Summer Term
Good	22	16 (cumulative)
Probation	14	8

2. **Requests for more than 19 credit hours** (12 in the summer) require written approval from any of the following individuals – Associate Vice President of Academic Success; Associate Vice President of Curriculum, Accreditation and Assessment; or the Assistant Vice President of Community Engagement Services. Approval must be obtained before registering.
3. The recommended maximum credits under CSN policy is 22. To be approved for 22 credits, students must show exceptional academic ability. To register for more than 22 credits, the student must have written permission from the Vice President of Academic Affairs.
4. If a student has outstanding incomplete grades, they cannot exceed 19 credits in regular semester or 12 credits in summer.
5. Request forms are available in the Office of the Registrar.

FINAL EXAMINATIONS

Final examinations are held at the end of each semester. Students are required to take the final examination at the time and place scheduled by the instructor in order to receive credit for the course.

PAYMENT INFORMATION

All fees are subject to change as approved by the NSHE Board of Regents. Students should consult the current Class Registration at MyCSN, contact the Office of the Registrar or the Cashier on any of the three main campuses for the most current fees.

Fees: See current Class Schedule or refer to the Cashier's web page at www.csn.edu/cashier.

How Much Do I Owe: Students can find out how much they owe for tuition and fees through MyCSN. Log in to MyCSN to view the amount owed. To avoid errors in billing and refunds, students must use their complete name, NSHE ID number or social security number and local address on all transactions. Please print clearly and retain all receipts.

Methods of Payment

In-Person Payments: Students may pay tuition and fees in person at the Cashier at any of the three main campuses during office hours if paying by cash or check.

Payment by Check: Students make checks payable to the NSHE Board of Regents. See a current Class Schedule for deadlines. Be sure to write your NSHE number or social security number on your check if paying in person. Please note all payment deadlines in a current Class Schedule to ensure timely payments. Just as a reminder, checks can be made in the form of "E-Check" online at MyCSN in student self-service. Please note all payment deadlines in a current Class Schedule to ensure timely payments. Just as a reminder checks can be made in the form of "E-Check" online at MyCSN in student self-service.

Those wishing to mail in payment, send to:

College of Southern Nevada
ATTN: Cashiers Office – C1M
3200 East Cheyenne Avenue
North Las Vegas, NV 89030

Returned Checks: Students may pay CSN fees and other bills with a personal check. A collection fee of \$25.00 will be assessed for any check returned unpaid by the bank including e-checks. A returned check must be made good within 10 days after being returned to the college or collection procedures will be instituted. If a personal check is returned from the bank, the college reserves the right to place a student on a cash basis only and withdrawal procedures may be initiated at the option of the college. A stop payment placed on a check does not constitute an official withdrawal from the college, and the student will be responsible for any fees that are a result of the stop payment. Official withdrawal must be made via MyCSN or in person through the Office of the Registrar.

Payment by Credit Card: Students may pay CSN tuition and fees with a credit card through MyCSN. CSN accepts MasterCard, Visa, Discover, American Express, and Diners Club credit cards. In the event that a credit card is denied online, classes will not show as paid and you are subject to be dropped from all classes due to non-payment.

Payment Plan: Payment Plans are available only during the spring and fall semesters to students who register for six or more credits per semester. Apply online at MyCSN under "Finances," select the link for "other financial," and then select "enroll in payment plan." This will allow you to enroll if you qualify. Payment Plans are available when Early Registration begins in spring and fall.

Special Costs for Health Sciences Programs

There are special costs associated with admission and matriculation in some health sciences programs. For example, an instrument deposit is required for the Dental Hygiene program. Students whose program requirements include clinical assignments at local health care facilities are required to carry health insurance. Some facilities require that students have a Sheriff's Card prior to beginning their clinical experience. Contact the Health Professions Advisor on the Charleston campus for current information on special requirements.

Excess Credit Fee (Effective Fall 2014)

This Nevada System of Higher Education (NSHE) policy will charge a 50 percent excess credit fee per-credit to a student who has accrued attempted credits equal to 150 percent of the total credits required to complete the student's declared program of study. Attempted credits include all graded courses on a student's transcript, including but not limited to grades of **F** and **W** (withdrawal) as well as repeated courses.

The following categories of declared majors are subject to the Excess Credit Fee:

- Students currently pursuing a **Certificate of Achievement** who have attempted 45 credits or more will be charged this fee.
- Students currently pursuing an **Associate Degree** who have attempted 90 credits or more will be charged this fee.
- Students currently pursuing a **Bachelor's Degree** who have attempted 180 credits or more will be charged this fee.

The Nevada System of Higher Education (NSHE) provides an appeals process for this excess credit fee. Students will need to provide an appeal form and supporting documents to be considered for exception to this fee. The following credits can be considered in the appeals process:

1. Credits earned through examination like AP, CLEP, and Non-Traditional credits (must attach a copy of Transfer Credit Report).
2. Credits attempted while enrolled as a high school student if those credits do not meet the student's degree requirements (must attach a copy of Academic Advising Report and a copy of high school transcripts).
3. Credits attempted at an institution outside of NSHE if those credits do not meet the student's degree requirements (must attach a copy of Transfer Credit Report and Academic Advising Report).
4. Credits attempted for remedial courses (must attach a copy of unofficial transcripts).
5. Credits earned from a previous earned degree if the degree is at the same level as the current degree (must attach a copy of unofficial transcripts or Transfer Credit Report).

Students are strongly encouraged to meet with a counselor or success coach.

REFUNDS

A student who drops or withdraws from CSN courses may be entitled to a full or partial refund of tuition and course fees. See refund deadlines in the current College Calendar.

A. Full-Term Classes (16-weeks) New Policy effective Fall 2013

1. If a student drops a course prior to the end of the first week of instruction, the student will receive a 100% refund of tuition and course fees.
2. If a student drops a course by the end of the second week of instruction, the student will receive a 50% refund (students will be required to pay 50% of the fee).
3. If a student drops at the start of the third week of instruction then no refund will be given.

B. Short-Term Classes (less than 16 weeks)

1. If a student drops a course prior to the first day of the course in which a student is registered, the student will receive a 100 % refund of tuition and course fees.
2. If a student drops a course one day after the first meeting day of the course, the student will receive a 75% refund (students will be required to pay 25% of the fee).
3. If a student drops after the period listed above then no refund will be given.

C. Other Refunds

1. No refund shall be given for the New Student fee.
2. Nonresident tuition shall be refunded in conformity with the above schedule for load reduction to six (6) credit hours or less and for withdrawal for the current semester. Nonresident fees are not retroactive.

Refund Exceptions

Students may petition for a refund by completing the Student Appeals Petition Request form with all supporting documents included. The Student Appeal Form can be downloaded from our website at www.csn.edu/pages/2463.asp (go to the Admission web page and click on FORMS AND RESOURCES) or obtain in person at the Office of the Registrar on any of the three main campuses. The Student Appeals Committee will review all petitions in date-order and the decision of the committee is **final**. Students will be notified via email of the Student Appeals Committee's decision.

Submitting an Appeal

Refund appeals will not be considered unless the student has officially withdrawn from the class(es) and was earning satisfactory progress in the class(es) at the time of the withdrawal. (Students who are receiving financial aid should check with the offices of Financial Aid or Veteran's Affairs prior to withdrawal to determine what, if any, effect this action may have on future financial aid or Veteran's Affairs eligibility.) The student may then submit a Student Appeal Form.

Tuition appeals will generally be approved for the following reasons as long as the appropriate written supporting documentation is provided:

- Deployment of a student in the United States Armed Forces- student must provide valid and properly endorsed orders. Includes dependent(s) enrolled at CSN, if other than the student;
- Death or incapacitation resulting from an illness or injury of the student; or spouse, child, parent, or legal guardian of a student that prevents the student from returning to school for the remainder of the semester. Extended incapacitation/hospitalization of the student (which caused the student to miss 20 percent or more

of scheduled instruction) documented by a physician's statement on the doctor's official letterhead (copies of the student's medical records will be accepted.) This must be an unscheduled medical emergency experienced or continuing after the last day to drop for tuition refund. The physician's letter must include the date the student was first seen for the medical condition as well as the beginning and ending date the student was incapacitated or/and hospitalized and must state that the student was physically unable to attend classes during that period of time. The physician's letter must specifically state that the student was physically unable to attend classes, otherwise it will not be sufficient support to approve an appeal;

- Verifiable error on the part of the institution;
- Involuntary job transfers outside the Greater Las Vegas Metropolitan Area-documented by employer;
- Late notification of denial to a specific degree program with supporting documents.

No refund will be made if appeal and supporting documentation are not received by the end of the semester following the semester being appealed. Exceptions may be made in extreme circumstances.

CSN IDENTIFICATION CARDS

CSN I.D. cards are available to students, faculty, and staff. The CSN I.D. card:

- Provides identification at the CSN Library for borrowing privileges.
- Provides identification for student status to qualify for discounts.
- Must be renewed each semester.

Students must be enrolled for the current semester and provide a photo I.D. in order to obtain a CSN I.D. card. There is a \$2.00 charge for your CSN I.D. card. Fees are subject to change.

BOOKSTORES

Bookstores are located on the Charleston, Cheyenne, and Henderson campuses. Each bookstore sells the required and supplemental textbooks for your class offered on that campus as well as classes offered online. The bookstore also sells general school supplies, study aids, educationally discounted software, imprinted clothing, and gift items. Students can also purchase textbooks and get text information from the bookstore website at www.foflett.com.

Text Rental Program: The bookstore also offers a Text Rental Program. In order to participate in this program, you will need to be at least 18 years of age; have a valid government issued identification card; and, a recognized credit or debit card. Please note that not all titles are eligible for rent. You can visit any of the bookstore locations for additional information and/or sign up for the program.

Bookstore Refund Policy: Your textbooks are fully refundable in their original condition with sales receipt within two weeks from the official start of classes for fall and spring courses and one week for summer courses. After this date, you may return your books within three business days of purchase with original receipt for your full refund. Books for classes that are cancelled by the school are fully refundable within one week of the scheduled start date for the course.

Please use caution when opening package sets as some electronic media and textbook packages may not be fully refunded once opened. No refunds are offered during final exam periods.

ATTENDANCE POLICY

College enrollment assumes maturity, seriousness of purpose, and self-discipline for meeting the responsibilities associated with the courses for which a student registers. Students are expected to attend each meeting of every course for which they have registered. Attendance is essential for normal progress in a college course. Under no circumstances will an absence, for any reason, excuse a student from completing assigned work in a given course. After an absence, it is the student's responsibility to check with the instructor about the completion of missed assignments.

(For information on absences on religious holidays, see Religious Holidays in this Catalog.)

Students receiving Financial Aid assistance, please refer to the Withdrawal and Return of Title IV Funds link from the Financial Aid – Satisfactory Progress website for detailed information at www.csn.edu/pages/628.asp.

Unregistered Persons in Class

Only students officially registered by the College in a class may attend the class. This applies to physical or virtual classroom sessions. By way of example only and not limitation, this includes students not registered in that class or session of the class, friends, or family members (adults or children) of registered students, or members of the general public. Students must attend the section of the class for which they are officially registered. It is each student's responsibility to ensure they are enrolled in each of their courses, and are listed on their respective class rosters. Attending a section for which a person is not enrolled, either accidentally or purposefully, is not a valid reason to request a change of grade, reinstatement, or course refund. Exceptions to this policy are departmental/college evaluations of the class or similar administrative issues, authorized disability services, and the invitation of the instructor. Students registered for one section of a course may attend a different section of the course with the consent/invitation of the instructor for a period of time to be determined by the instructor.

GRADES AND ACADEMIC PROGRESS

Grading Symbols and Definitions

At the end of each semester, reporting of individual student grades is made available through MyCSN. All financial obligations to the College must be met before a student is eligible for an official transcript.

The following grades are given at CSN:

Grade	Grade Point Value	Grade	Grade Point Value
A	4.0	C	2.0
A-.....	3.7	C-.....	1.7
B+	3.3	D+	1.3
B	3.0	D	1.0
B-.....	2.7	D-.....	0.7
C+	2.3	F.....	0.0

Grades of **D+**, **D**, and **D-** in the student's major occupational area in Associate of Applied Science degree programs or Certificate of Achievement will not count towards graduation requirements.

- The Failure **F** grade is given for failure in the performance of course objectives and is worth zero (0) grade points.
- The Incomplete **I** grade may be assigned when the student has successfully completed all course work up to the withdrawal date of that semester/session but is unable, due to legitimate reasons (e.g. serious illness, death in the family, or change of employment), and with proper documentation, to compete all requirements for the course.
 - The instructor will determine if the student qualifies for the incomplete process, and if so, the instructor will determine and document the outstanding requirement for the student to finish the course and convert the **I** grade as well as the time frame to complete those requirements, not to exceed one year.
 - If the work is not completed during that time frame, the **I** converts to an **F** unless a different grade is indicated by a Grade Change Form.
 - If the instructor is no longer available to submit a Grade Change Form, it is the responsibility of the department chair to do so, if applicable.
 - The **I** grade is not included in the student's grade point average and therefore is worth "0" points.
 - If a student wishes to retake the entire course, he or she must re-register and pay for the class.
 - Unless approved by the dean in the student's major or the VPAA or VPAA's designee, a student with three current **I** grades may not register for additional coursework.
- If the student is not enrolled at CSN at the time he or she needs to complete the coursework and he or she needs to use CSN facilities not open to the public (such as labs), the student must receive permission from the department chair or program director to use those facilities, sign a waiver of liability to CSN, and if applicable, receive permission from the clinic site.
- The Withdrawal **W** grade indicates withdrawal from a class. If the withdrawal happens after the refund period, the student will receive a grade of **W** for the class as long as withdrawal occurs before the course is 60% complete as defined by the College Calendar. Lack of attendance does not constitute withdrawal; failure to properly withdraw will result in the assignment of an **F** grade on the student's transcript in accordance with the NSHE Grading Policy. The **W** grade is not computed in the grade point average.
- The Pass **P** grade is granted on the basis of satisfactory completion of specific courses designated as Pass/Fail only. The **P** grade is not computed in the grade point average.
- The Satisfactory **S** grade indicates that a student earned a **C-** or above in the completion of course objectives. The **S** grade is not computed in the grade point average.
- The Unsatisfactory **U** grade indicates that a student earned a **D+** or below in the completion of course objectives. The **U** grade is not computed in the grade point average.
- The Not Reported **NR** grade is assigned by the Registrar pending submission of a final grade by the course instructor. The **NR** grade is not computed in the grade point average.
- The Audit **AU** grade is given for students who audit a course. The **AU** grade is not computed in the grade point average.
- The use of plus (+) and minus (-) in a grade is at the discretion of the instructor. The course syllabus shall contain a clear explanation of the grading scale to be used by the faculty member.

Calculating Your Grade Point Average

The grade point value associated with each grade denotes how many points are accumulated for each credit earned with that grade. The grade point average is determined by dividing the sum of the grade points earned (refer to the grade point value chart) by the total number of credits earned with a regular letter grade.

Course Repeat

Students may retake a CSN course as often as needed to gain a better grade and, thereby, a higher grade point average. Only the highest grade received will count as part of the total grade point average. All repeated courses taken at the College will remain as part of a student's permanent academic record. Some limited entry programs will not allow required courses to be repeated.

Students receiving financial aid should be aware that all attempted credits are included in the calculations for Satisfactory Academic Progress. Please see www.csn.edu/sfs for more information on Satisfactory Academic Progress.

Academic Honors

The College of Southern Nevada supports and recognizes student achievement. An Academic Honors List identifies and recognizes students who demonstrate academic excellence. In addition to being identified as an honoree, a notation “Academic Honors” will post to the student’s transcript for the qualified semester.

To be eligible for Academic Honors, a student must:

1. Complete at least 6 credits of 100 level and above during the eligible semester with grades on the **ABCDF** scale,
2. Courses must be 100 level or above, and
3. Semester grade point average and correlating designation:
 - a. 3.3 to 3.59 – Honor's List
 - b. 3.6 to 3.99 – Dean's List
 - c. 4.0 – President's List

Academic Warning

Any student who does not achieve a cumulative grade point average of 2.0 or higher after having attempted at least 12 credits is placed on academic warning for one semester. Students on academic warning will be notified and will be directed to seek assistance from appropriate services. Academic warning status does not appear on official transcripts.

Removal of Academic Warning: A student on academic warning who achieves a cumulative GPA of 2.0 or higher at the end of the next semester of enrollment will be removed from academic warning.

Academic Probation

A student on academic warning who fails to achieve a cumulative GPA of 2.0 or higher at the end of the next semester of enrollment will be placed on academic probation. Students on academic probation will be notified and directed to seek assistance from appropriate services. Students may continue to enroll in classes at CSN while on academic probation provided they maintain a semester GPA of 2.0 or higher. Academic probation status appears on official transcripts.

Removal of Academic Probation: Academic probation is removed when a student’s cumulative GPA is raised to 2.0 or higher at the end of the next semester of enrollment.

Academic Suspension

A student on academic probation who fails to achieve a semester GPA of 2.0 or higher will be placed on academic suspension. Students who are suspended will not be

allowed to register for any credit classes for at least one semester and must petition to register with the Academic Suspension Appeals Committee. Academic suspension status will appear on the student’s official transcript. Students on academic suspension will be encouraged to seek advice from appropriate personnel.

College Readmission After Suspension: A student may petition the Academic Suspension Appeals Committee if the student wants to attend CSN again after one semester of suspension. A Student Appeal Form must be submitted prior to appearing before the committee. The appeal must also include the advising degree sheet and up to two selected courses chosen with the aid of appropriate academic advising personnel. If readmitted, the student will be limited to a maximum of two classes per semester. The student must earn a GPA of 2.0 or higher in each of the next two enrolled semesters or again be suspended from taking classes at CSN for another semester. The student will be placed on academic probation upon re-admittance to the college.

Grade Appeal Process

A. A student may request a change of grade for any of three reasons:

1. A clerical or computational error was made by the instructor in assigning the grade.
2. The instructor lost or damaged student work that had been completed and submitted as assigned.
3. The instructor evaluated the student’s work on the basis of different factors than were used to evaluate the work of the other students in the course

B. The student will first discuss the request for change of grade with the instructor. If the matter cannot be resolved, the student may appeal in writing to the department chair/head. This appeal must contain a signed statement of the reasons for a change in grade and any supporting documentation including course syllabi, copies of any disputed work, etc. This appeal must be submitted within four months of the end of the course in which the grade is being disputed. If resolution is still not reached, the student may appeal to the dean of the school. The dean will refer the appeal to the School Grade Committee. The School Grade Committee will rule on the matter within 30 days of the date of the appeal to the dean.

C. The School Grade Committee will be appointed annually. The school dean will solicit members for this committee as defined below.

The Committee will consist of five members of the school:

1. One department chair/head selected by the dean.
2. Two school faculty members selected by the dean.
3. One representative from Student Affairs selected by the Vice President for Student Affairs.

4. The fifth member of the committee will be a faculty member selected by the student. If the student declines to suggest a committee member the dean will select the fifth member from the discipline involved in the appeal.
 5. The dean will seek replacement of any member of the Committee who is directly involved in a particular case. If a member of the committee is unavailable, the dean will replace the member for that individual appeal.
- D. When a grade appeal is referred to the School Grade Committee, the Committee will schedule a formal hearing at which the student and the instructor may each make a statement of the case. The Committee may hear other witnesses and examine evidence as they choose.
- E. The Committee may decide:
1. No action;
 2. The grade will be changed; or
 3. The student may replace lost or damaged work.
- The Committee's decision will be binding on all parties. Sufficient evidence must be presented by the student for the Committee to recommend a change of grade or the acceptance of replacement work. If a change of grade is recommended, the dean will sign and file the Grade Change Form. If replacement work is recommended, the committee will establish a reasonable time line for completion of the replacement work and the dean will appoint a faculty member from the same or related discipline to evaluate the replacement work and decide the student's final grade.
- F. The Committee will prepare a summary of the appeal and the reasons for their decision. The summary will be sent to the student, the faculty member, the department chair/head, and the school dean.

GRADUATION REQUIREMENTS

To ensure students graduate with current knowledge in their chosen fields, CSN requires that students must meet degree or certificate course requirements that are listed in a CSN catalog.

Students must:

- Select the catalog under which the student enrolled, or
 - Select the catalog under which the student officially declared or changed major, or
 - Select the catalog under which the student will complete the curriculum requirements for a baccalaureate degree or an associate degree or certificate of achievement, or
 - Select a degree that is offered for the first time after the student has enrolled. The student must choose the catalog year in which the degree or major was first offered.
- The selected catalog cannot be more than six years old at the time of graduation for students receiving an associate degree or certificate, and not more than ten years old at the time of graduation for students receiving a baccalaureate degree.**
- Students planning to receive an Associate degree must complete a minimum of 60 credits, depending on specific program requirements, of various courses meeting general education and program-specific requirements and have at least a 2.0 grade point average.
- Students planning to receive a Certificate of Achievement must complete a minimum of 30 credits, depending on specific program requirements, of various general education and certificate specific requirements and have at least a 2.0 grade point average.
- In addition, students must:**
- Satisfactorily complete a minimum of 15 semester credit hours in residence at CSN for an Associate degree or Certificate of Achievement. For the Associate of Applied Science degree and the Certificate of Achievement, students must complete the appropriate 15 semester credits in the Special Program Requirements. Non-Traditional Education (NTE) credits can only be used towards an Associate of Applied Science degree, Associate of General Studies degree or Certificate of Achievement.
 - Not have any outstanding financial obligation to a NSHE institution.
 - Complete all course requirements by the last day of final examinations of the candidate's final semester. Students cannot have pending grades of **I** or **NR**. A final graduation grade point average must be posted.
 - Not have a grade of **D+**, **D**, **D-** in the major occupational area for the Associate of Applied Science degree or Certificate of Achievement.

Dual Degrees/Certificates

Students seeking to earn two certificates or degrees subsequently or simultaneously must satisfy the following dual degree policy requirements:

- File a separate Application for Graduation for each degree.
- Complete all curricular requirements for each degree.
- Complete 15 credits in residence beyond the requirements for the first degree; therefore, the student must complete a minimum of 75 semester credits, 30 of which were earned in residence at CSN.
- Students earning dual degrees may use a course only once to fulfill each certificate or degree requirement.

Students transferring credits completed at other institutions toward their CSN degree or certificate must have their transcripts evaluated prior to applying for graduation. Any student who fails to meet graduation requirements in any given semester must file a new application with the Office of the Registrar.

Students may apply for and receive diplomas for one of three graduation dates: August, December or May. Students requesting a duplicate diploma must submit a graduation application and mark “DUPLICATE DIPLOMA” and pay the \$15.00 duplicate diploma fee.

Application for Graduation

CSN awards the following degrees upon successful completion of all requirements: Bachelor of Science, Associate of Arts, Associate of Applied Science, Associate of Business, Associate of General Studies, Associate of Science and the Certificate of Achievement. Diplomas and transcripts indicate the degree and any emphasis, if applicable.

Commencement exercises are held once a year in May. Students who graduated during the preceding summer or fall semesters will be listed in the commencement program and may participate in the May commencement. Students must file an application for graduation with the Office of the Registrar during the semester in which they plan to complete requirements for graduation. The deadline for filing is included in the Academic Calendar, available online at www.csn.edu/academiccalendar.

High Honors/Honors

All students graduating from CSN are considered for High Honors or Honors based on their CSN cumulative grade point average. High Honors requires a cumulative GPA of 3.6. An Honors designation requires a cumulative GPA of 3.4. All honors students receive recognition on their diplomas, academic transcripts and in the commencement program.

Course Substitution

If a student is unable to obtain a course which is listed as a program requirement or has already taken a course which appears similar in content, he/she may apply for a substitution. The student is not granted any additional credit, but is merely allowed to substitute a course not listed as a requirement for a course which is required. The course substitution cannot overrule the mandatory 15 credit CSN residency requirement. It is the student’s responsibility to:

- Complete a separate Substitution Waiver Form for each request (forms are available in the Office of the Registrar), and
- Submit the request to the appropriate department chair for review and signature.

The appropriate department chair for the course will then review the request for approval or denial and forward it to the Office of the Registrar. The student will receive a copy of the form on completion of the process.

Course Waiver

If a student feels he/she has the training or experience equivalent to the instruction given in a specific required course, he or she may apply to the appropriate department chair for a waiver of that course. Students should keep in mind:

- If a waiver is granted, the student must still complete the mandatory 15 credit CSN residency requirement, and
- Students must still have the total number of credits required for graduation, since a course waiver does not waive the total credits required to receive a degree.
- Waiver of an institutional degree or certificate requirement requires the approval of the appropriate department chair for the course.

Students should contact the appropriate department chair to determine how to fulfill the credits for the degree whenever a waiver is granted. Course Waiver Forms are available in the Office of the Registrar.

Phi Theta Kappa

If you wish to obtain a Phi Theta Kappa notation on your diploma, transcript, and in the commencement book, you must visit CSN's Phi Theta Kappa page at www.csn.edu/ptk/ and follow the Phi Theta Kappa graduation instructions. The deadline to submit your information is the same as that for CSN's graduation. If you would like to be recognized as a Phi Theta Kappa member at CSN's commencement ceremony in May, you must purchase a Phi Theta Kappa stole either through the English Department at the Charleston Campus or online at store.ptk.org/.

TRANSFER AND ARTICULATION PARTNERSHIPS

The College provides a broad range of courses to fulfill the requirements of an associate degree and the first two years of a baccalaureate degree aimed at preparing students for transfer to a four-year college or university. Students planning to transfer to four year institutions should speak to a counselor or advisor to receive assistance and select courses and appropriate degree paths. The Transfer Center Coordinators can be reached at transfercenter@csn.edu.

CSN has established transfer and articulation partnerships with institutions in the Nevada System of Higher Education (NSHE) and a variety of other private, public, and out-of-state institutions. Please note this is for current CSN students wishing to transfer and/or articulate to these institutions.

Current partnership agreements exist with:

Great Basin College – GBC
 Nevada State College – NSC
 University of Nevada, Las Vegas – UNLV
 University of Nevada, Reno – UNR
 University of Southern Nevada – USN
 Sierra Nevada College – SNC
 Truckee Meadows Community College (BSDH only) – TMCC

Private and Out-of-State Institutions:

Art Institute of Las Vegas – AILV
 Blue Mountain Community College – BMCC
 Capella University – CU
 Champlain College – CC
 Eastern New Mexico University – Paramedic only – ENMU
 Grand Canyon University – GCU
 Kaplan University – KU
 Lincoln Christian University – Las Vegas Extension – LCU
 National Labor College – NLC
 National University – NU
 Nova Southeastern University – NSU
 Regis University – REGIS
 Southern Illinois University, Carbondale – SIUC
 Southern Utah University – SUU
 Strayer University – SU
 Touro University – Nevada School of Nursing – TOURO
 University of Maryland University College – UMUC
 University of Phoenix – UOP
 Utica College – UC

TRANSFERRING TO ANOTHER INSTITUTION

Many CSN students transfer to a university or four-year college. Students can order official transcripts by various methods;

- Students can order transcripts online through the National Student Clearinghouse https://www.studentclearinghouse.org/secure_area/Transcript/to_home.asp?t=190753&LoginHome=to_home.asp
- Students can order transcripts by mail. The Transcript Request Form can be downloaded from our website at <https://www.csn.edu/uploadedfiles/Admissions/Transcript%20Request%20Form.pdf>.
- Students can order transcripts in person at any of our three main campuses.

FOUR-YEAR SCHOOL TRANSFER SERVICES

After the completion of an associate degree, the College of Southern Nevada encourages its graduates to transfer and pursue their bachelor's degree at a four-year institution. CSN advising and academic counseling staff members assist students in exploring their next postsecondary options through the provision of resources, internet searches, recruiter visitation schedules, and information about semi-annual Transfer Fair events. Transfer resources also include agreements/articulations between CSN and selected institutions. For more information, please visit www.csn.edu/pages/944.asp or email at transfercenter@csn.edu.

TRANSFERRING WITHIN THE NEVADA SYSTEM OF HIGHER EDUCATION

Student Rights

Students have the right to:

- Receive automatic fulfillment of lower-division general education requirements at the universities, state college, and community colleges that offer select baccalaureate degrees upon completion of an Associate of Arts, Associate of Science, or an Associate of Business degree from a NSHE community college.
- Access information from the community colleges, state college, and universities about their transfer admission requirements, including documents required for admission, housing, and information about the institution's costs, financial aid, and student services.
- Access information about the transfer of specific courses, credit hours, grades, and degree requirements. This includes information about transferring courses with grades below a C, courses students may have repeated, and credit previously granted by examination.

- Access and receive admission and transfer-related decisions in writing (electronic or paper) specifically:
 - Acceptance by the community colleges (limited access programs only), state college, and the universities.
 - Evaluation of courses and credits accepted for transfer credit and their course equivalencies, if applicable.
 - Outline of transfer courses and requirements which the transferred courses or credits will satisfy for the degree or program sought.
 - Analysis of the number of semester credits required to complete a degree in the chosen major program of study.
 - The NSHE institution's appeals process for transfer-related decisions.
- Appeal any NSHE institution's transfer-related decision. The appeal process will be developed and maintained by each NSHE institution and published on the institution's website.
- Elect to graduate under the course catalog graduation requirements under any of the following options, provided that the course catalog at the time of graduation is not more than six years old:
 - The course catalog of the year of enrollment in a baccalaureate level course/program at a NSHE community college (valid transfer contract may be required).
 - The course catalog of the year of transfer into a baccalaureate level program at the universities, state college, or community colleges that offer select baccalaureate degree programs.
 - The course catalog of the year of graduation from a NSHE institution.
- Research how courses are applicable to degree and major requirements.
- Understand that if they change their major, not all courses taken will necessarily apply to their new major.
- Plan ahead and realize that appointments with advisors are necessary.
- Understand that after a break in their enrollment, status as an admitted student may be affected.

NSHE Institution Responsibilities

NSHE Institutions will:

- Make transfer-related policies and procedures available on their websites.
- Make answers to frequently asked questions about transfer issues accessible for students and provide opportunities for appropriate follow-up appointments to students.
- Provide information on the approximate costs of attending the institution, including tuition, books and supplies, housing, and other related fees.
- Relay admission and transfer-related decisions to students in writing (electronic or paper); including information about the student's appeal rights.
- Establish and make available upon request internal appeals processes to review transfer-related issues and decisions.
- Engage in continuous, authentic dialogue among NSHE institutions about transfer-related issues with the purpose of solving the challenges before they negatively impact students.

Warning: Changing majors may change the course catalog and graduation requirements, which may increase the time to degree completion.

Notice: Students have all the above rights and any others as summarized in the Summary of Board of Regents Transfer Policies. The summary can be accessed at the NSHE website at system.nevada.edu. Paper copies of this document are available upon request of the institution's admission office.

Student Responsibilities

Students have the responsibility to:

- Understand the transfer policies and procedures of the institution they are considering for transfer. Students should seek information from the institution they are transferring to regarding: core curriculum, prerequisites, major program requirements, degree requirements, admissions, financial aid, scholarships, housing, deadlines, restrictions, and other transfer-related criteria.
- Complete all materials required for application and submit the application on or before the published deadlines.

ACADEMIC INTEGRITY POLICY

Academic integrity is a legitimate concern for every member of the CSN college community. By joining the CSN college community, students accept the expectations to always take the ethical path and uphold the standards for integrity and honesty in their individual academic studies and to encourage others to do the same. It is the policy of CSN to review and investigate all allegations of violations of the academic integrity policy, and if violations have occurred, to impose appropriate sanctions that maintain the integrity of CSN's academic courses and programs.

CSN students assume the obligation to conduct themselves with integrity in their academic pursuits and in a manner that is compatible with the CSN Student Conduct Code (available at www.csn.edu/policies) and CSN's mission as an educational institution with high standards of integrity overall. Students who violate these standards for academic honesty and integrity will be subject to CSN's disciplinary process. Complete information about the Academic Integrity Policy can be obtained at www.csn.edu/studentacademicintegrity.

ACADEMIC RENEWAL

Academic Renewal allows students to request that as many as two consecutive semesters' grades not be included in the calculation of their cumulative grade point average, academic standing and eligibility for graduation. The student must submit an Academic Renewal Form to the Office of the Registrar. If Academic Renewal is awarded then it must include all the courses for that given semester(s). If summer courses are to be included in the work disregarded, then course work from all summer terms of the same calendar year shall count as one semester. Academic renewal can only occur once during a student's academic career. To maintain a true and accurate academic history, all work will remain listed on a student's permanent academic record. The record will be annotated to indicate that work taken during the disregarded semester(s), even if satisfactory, will not apply toward graduation requirements. There will be no reimbursement of fees for the semester(s) which academic renewal is granted. *Course work disregarded under this policy may continue to be used for the calculation of eligibility to receive financial aid and scholarship.*

Eligibility for academic renewal shall be subject to the following conditions:

- At the time the petition is filed, a minimum of five years shall have elapsed since the most recent course work to be disregarded was completed.
- In the interval between the completion and the filing of the petition, the student shall have completed a minimum of fifteen credits of course work from a regionally accredited institution of higher education with a minimum grade point average of 2.5 on all work completed during that interval. Courses taken during this interval may be repeats of previously attempted college work.

IMMUNIZATIONS AND OTHER SPECIAL REQUIREMENTS

A student enrolled in any of the following programs is a *potential candidate* for the special requirements policy, *depending on the particular course of study*. Consult with the program director or advisor for specific program requirements and deadlines.

- Cardiorespiratory Sciences
- Contact Lens Technician
- Culinary Arts Management
- Dental Assisting: Clinical Emphasis
- Dental Hygiene
- Diagnostic Medical Sonography
- Early Childhood Education
- Emergency Medical Technician and Advanced Emergency Medical Technician
- Health Information Technology
- Medical Coding
- Medical Laboratory Assistant
- Medical Laboratory Scientist
- Medical Laboratory Technician
- Medical Office Assisting
- Medical Office Practices
- Medical Transcription
- Mental Health Services
- Nursing (RN)
- Nursing Assistant
- Ophthalmic Dispensing
- Optical Laboratory Technician
- Paramedic Medicine
- Patient Registration
- Pharmacy Technician
- Phlebotomy
- Physical Therapist Assistant
- Practical Nursing (PN)
- Radiation Therapy Technology
- Surgical Technologist
- Veterinary Technician

Immunizations

Nevada law and cooperative agreements with community partners requires the protection of students at high risk for exposure to vaccine-preventable diseases. Students in specific programs will be required to provide documentation of receipt of vaccination or proof of immunity through blood testing for any or all of the following:

- Hepatitis A via Health Card (Culinary, Early Childhood Education)
- Hepatitis B
- Measles (rubeola), Mumps, Rubella (MMR)

- Chicken Pox (Varicella)
- Tetanus/Diphtheria/Pertussis
- Rabies (Veterinary Technician)

Tuberculosis: Once accepted into a healthcare program, the student is required to show proof of no active pulmonary tuberculosis present.

Physical Examination: Once accepted into a healthcare program, the student is required to complete a physical examination.

Health Insurance: Once accepted into a healthcare program, the student is required to show proof of major medical health insurance coverage.

Drug Screen: Once accepted into a healthcare program, the student is required to test negative for drugs and alcohol via a drug screen.

Criminal Background Check: Once accepted into a healthcare program, the student is required to have a criminal background check completed.

CPR: Once accepted into a healthcare program, the student is required to maintain certification in Healthcare Provider CPR/AED training.

MATRICULATION DATE

The term “matriculation date” is the date of the first day of instruction in the semester or term in which enrollment first occurs and continues through the completion of at least one academic course. Enrollment in CSN non-credit courses, which are not state-funded, shall not be used in determining “date of matriculation” for evaluation of residence.

NAME CHANGE

Students who wish to change their name on record at CSN will need to complete the Request to Change Personal Identification Data Form available at the Office of the Registrar and provide appropriate documentation such as government-issued picture ID, marriage certificate, divorce decree or other court documents. Students must submit the form and supporting documents in person. Name changes are processed for currently enrolled students only.

RELIGIOUS HOLIDAYS

It is the policy of the Nevada System of Higher Education to be sensitive to the religious obligations of its students. Any student missing class, quizzes, examinations, or any other class or lab work because of observance of religious holidays shall, whenever possible, be given an opportunity during that semester to make up the missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor in advance and in writing if the student intends to participate in a religious holiday that does not fall on state holidays or periods of class recess. This policy shall not apply in the event that administering the assignment at an alternate time would impose an undue hardship on the instructor or the institution that could not reasonably have been avoided.

Any student, who is denied a make-up option after appropriately noticing the instructor shall have the right to appeal that decision through the normal appeal mechanism in place at CSN.

REMEDIAL POLICY

1. The Nevada System of Higher Education reserves the right to cancel the admission or registration of any individual whose attendance at a university or college, in the opinion of the appropriate administrative officer and the President, would not be mutually beneficial to that individual and the university or college.
2. Placement testing should take place prior to matriculation. Additionally, English and mathematics testing must take place no more than two years prior to matriculation.
3. All degree-seeking students who place in developmental/remedial coursework must take the prescribed sequence of courses until remediation is completed.
4. Students requiring remediation **must complete all required coursework prior to completion of 30 college-level credits** unless otherwise authorized by the institution.

CSN'S POLICY AGAINST SEXUAL HARASSMENT

1. **Sexual Harassment is Illegal under Federal and State Law.**

The College of Southern Nevada (CSN) is committed to providing a place of work and learning free of sexual harassment, *including sexual violence*. Where sexual harassment is found to have occurred, CSN will act to stop the harassment, to prevent its recurrence, to *remedy its effects*, and to discipline those responsible in accordance with the Nevada System of Higher Education (NSHE) Code or, in the case of classified employees, the Nevada Administrative Code. Sexual harassment, *including sexual violence*, is a form of discrimination; it is illegal.

No employee or student, either in the workplace or in the academic environment, should be subject to unwelcome verbal or physical conduct that is sexual in nature. Sexual harassment does not refer to occasional compliments of a socially acceptable nature. It refers to behavior of a sexual nature that is not welcome, that is personally offensive, and that interferes with performance.

It is expected that students, faculty and staff will treat one another with respect.

2. Policy Applicability and Sanctions.

All students, faculty, staff, and other members of the campus community are subject to this policy. Individuals who violate this policy are subject to discipline up to and including termination and/or expulsion, in accordance with the NSHE Code (or applicable Student Code of Conduct) or, in the case of classified employees, the Nevada Administrative Code. Other, lesser sanctions may be imposed depending on the circumstances.

Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI, Title VII, of the Civil Rights Act of 1964, Title IX Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans with Disability Act of 1990, has been delegated to Debbie Tanner, Compliance Investigator II, Charleston Campus – 6375 West Charleston Blvd., Office E-128, Las Vegas, NV 89146, 702-651-5783, debbie.tanner@csn.edu.

Additional information regarding CSN's grievance procedures may be found in the Affirmative Action Plan located on the Affirmative Action web page at www.csn.edu and in Appendix C of CSN's College Catalog.

SOCIAL SECURITY NUMBER POLICY

In accordance with the Federal Privacy Act of 1974, applicants for admission and enrolled students at CSN are advised that disclosure and use of their social security number is voluntary. All students will be assigned a Nevada System of Higher Education (NSHE) number. The assigned NSHE number may be used:

1. to identify student records at CSN.
2. for registration and course enrollment.
3. for recording grade information.

Students who are employed full-time by CSN or who receive federally funded educational aid must disclose their Social Security numbers for payroll and other mandatory reporting purposes. The Higher Education Act of 1965, as amended, gives the United States Department of Education (and parties authorized to assist them in administering the student aid programs) the authority to collect a student's Social Security number for federal student assistance purposes. A Social Security number is required for the 1098T Tax Credit, federal financial assistance, Millennium scholarship and the National Clearinghouse for enrollment verification.

TRANSCRIPT REQUEST

Students may request official transcripts for their own personal use or have transcripts sent to another institution. Official transcripts are printed on security paper and bear the CSN seal and signature of the Registrar.

Requests for official transcripts can only be accepted from a student him/herself unless the student gives written authorization for release to another person or organization. Students can request official transcripts online, by mail, or in person. Transcript ordering instructions can be found on our website at www.csn.edu/registrar via the "Transcript Information" link on the right side of the page. Allow 3-5 business days for processing and an additional 3-5 days at the beginning of each semester.

Students can print unofficial transcripts via MyCSN. Unofficial transcripts are computer print-outs and do not bear the CSN seal or signature of the Registrar.

ACCOUNTING LAB

The Accounting Lab is a tutoring service provided by the Department of Accounting, Finance and Computer Office Technology. The hours are posted each semester depending on need. The service is free to students and they can attend as often as they like. The tutors are experienced part-time faculty. Students may receive assistance for the following courses: ACC 135B, 201, 202, 203, 204 and 205. Further information is available by calling 702-651-3100.

ART GALLERIES

Fine Art Gallery

The CSN Fine Art Gallery, located in Room H101 of the Nicholas J. Horn Performing Arts Center on the Cheyenne campus, provides the campus and the community with a wide range of contemporary art exhibits. The gallery supports the educational mission of the Art and Art History Program and hosts exhibits by guest artists, students, and faculty. Exhibit announcements can be found posted on campus, online, in local media, or by calling the CSN Department of Fine Arts for information.

Artspace Gallery

The CSN Artspace, located upstairs above the main entrance lobby on the Cheyenne campus, provides the campus and the community with a wide range of contemporary art exhibits. The gallery supports the educational mission of the Art and Art History Program and hosts exhibits by guest artists, students, and faculty. Exhibit announcements can be found posted on campus, online, in local media, or by calling the CSN Department of Fine Arts for information.

CSN Student Art and Design Exhibition Spaces

CSN Student Art and Design Exhibition Spaces exist on each campus to highlight artwork made in art and design classes at the College of Southern Nevada. The culmination of the creative process for both fine and applied art is only achieved through that artwork's display. The College of Southern Nevada supports this culmination by providing informal, formal, and digital exhibition spaces for student art and design work.

CAMPUS CHILD CARE

Campus Child Care provides access to higher education for student parents through high-quality, low-cost child care services. Children of faculty/staff are also eligible.

Hours of service are Monday through Friday, 7 a.m. to 6 p.m. Full-day and half-day schedules are available. Campus Child Care serves children two through five years of age. Please contact Campus Child Care for more details:
 Cheyenne.....702-651-4944
 Charleston.....702-651-7390

CAREER SERVICES

Career Services assists students and alumni with comprehensive career exploration and employment services. This department focuses primarily on the development and implementation of career and employability plans. Career Services maintains partnerships with employers, faculty, staff, administrators, and the greater community to increase opportunities for the employment and career development of CSN students and alumni. Resources, services, and events provided by this department include:

- **Career Link** – This online Career System provides students with access to local and national job openings, internships, resume and cover letter review, appointment scheduling, and online employment resources.
- **Career Assessment Resource** – We offer a variety of career assessment instruments to help students learn about themselves and their potential fit with careers that are of interest. For example, the *TypeFocus* online assessment tool, available at www.typefocus.com, provides free assessments of career interest, personality, values, and student success (Site password: **csn63**).
- **Employment Events** –The department hosts job fairs, employer interviews, and on-campus recruiting events at the three main campuses.
- **Career Programming and Workshops** – Students may attend these to learn job searching skills, develop interview competencies, and create a career plan.
- **Career Advisement and Guidance** – Staff can help students to improve career decision- making skills, prepare résumés and cover letters, provide current labor market information, and help students to prepare for job interviews.
- **Employer Development** – Career Services establishes, cultivates, and maintains contacts with local, regional, and national companies with the goal of connecting employers with CSN students seeking employment. Partnering employers are given direct access to our library of CSN student and alumni resumes to help them fill their open positions.
www.csn.edu/career
 Cheyenne.....702-651-4700
 Charleston.....702-651-5089
 Henderson.....702-651-3174

SERVICES PROVIDED FOR STUDENTS

CIT/IS SOFTWARE LAB

The CIT/IS Software Lab offers students the opportunity to acquire assistance from tutors and to collaborate with each other in solving problems and to get help with completing assignments and projects. Tutors can help with guiding students to understand assignment requirements and explain the concepts to students who are then expected to complete work on their own. The CIT/IS Software Lab is equipped with computer hardware and software necessary for students to complete assignments and projects.

Further information can be found at www.csn.edu/cit.

COMMUNICATION LABS

The Communication Labs are designed to provide students with assistance during any stage of the speechmaking process. Our tutorial staff is knowledgeable and trained to provide you with individualized or group session assistance. Our focus is on helping students become effective speakers. We can help students select the perfect topic, research it, organize the speech, create functional speaker’s notes and presentation aids, and improve their physical and vocal delivery. Students can practice their speech in our whisper room to improve delivery and gain confidence!!! Hours vary by campus. Check our web page at www.csn.edu/pages/4671.asp for locations and hours of operation.

COMPUTER LABS - INTERACTIVE LEARNING CENTERS

CSN students have access to full-service computer labs at the Charleston, Cheyenne and Henderson campuses. There are also computer labs available at the High Tech Centers on the Green Valley High School, Palo Verde High School, and Western High School campuses. The computer labs are “Interactive Learning Centers” that bring together students, computing resources, and instructors. Access to online instructional applications and software taught in CSN classrooms are available to currently registered students in all of the Interactive Learning Centers. For more information on the Interactive Learning Centers please visit www.csn.edu/ots.

COUNSELING AND PSYCHOLOGICAL SERVICES

Counseling and Psychological Services (CAPS) offers a variety of free and confidential services aimed at promoting the growth and development of currently-enrolled CSN students. Services are available to students taking at least 6 credits during fall/spring semesters or 3 credits during summer terms. CAPS provides short-term counseling/ psychotherapy for individuals, couples (students only), and groups. We also offer crisis intervention and educational presentations and programs. Confidential consultations are available to assist faculty and staff regarding student-specific concerns and/or classroom situations.

More detailed information about CAPS can be found at www.csn.edu/caps. For consultation or to schedule an appointment with CAPS, please call:

- Charleston.....702-651-5518
- Cheyenne.....702-651-4099
- Henderson.....702-651-5518

COYOTE STUDENT NEWS

Coyote Student News serves the College of Southern Nevada’s community as a reliable source for news and entertainment. Coyote Student News is the official student-run online newspaper sponsored by the College. Find us at coyotestudentnews.com.

DEAF AND HARD OF HEARING SERVICES

Deaf and Hard of Hearing Services provides accommodations and support services for students with a documented hearing loss. Services are available at all CSN campuses. This office assists qualified students and staff to achieve full accessibility to all aspects of the academic experience. This department may refer students to other college departments and community agencies to enrich their educational experiences.

Accommodations may include, but are not limited to the following:

- Note Taker
- Sign Language Interpreter
- Oral Interpreter
- Speech-to-Text
- Testing Accommodations
- Technical Support

For more detailed information visit: www.csn.edu/drc.

You may contact Deaf and Hard of Hearing Services:

- Voice702-651-4448
- Video Phone702-475-4676

DISABILITY RESOURCE CENTER

CSN is committed to providing equal access to its educational programs and services to all qualified persons with documented disabilities. This commitment is governed by Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, and the Americans with Disabilities Amendments Act of 2008. Beyond the College’s legal responsibilities for promoting equal access, CSN welcomes all individuals, regardless of disability, who choose to visit, work, or take classes here.

Under federal law, a disability is defined as a physical or mental impairment that substantially limits one or more major life activities. The DRC works with qualified students to establish reasonable accommodations to facilitate equal access to CSN services and events. All academic accommodations are provided on an individual basis following an interactive review of the student’s documentation of disability and accommodation requests. Accommodations may include, but are not limited to the following:

- Note takers to assist in providing class notes
- Readers
- Scribes
- Lab and research assistants
- Access to adaptive technology and computers
- Testing accommodations

Students with disabilities requesting accommodations are responsible for providing documentation of their disability (or disabilities) to the Disability Resource Center. Such

documentation should provide as complete a picture of the individual's current functioning as possible. Documentation from an appropriately licensed or certified professional is preferred and DRC staff are available to assist students in obtaining and reviewing documentation. It is recommended that students with disabilities contact a Disability Specialist as soon as possible after making the decision to enroll as some accommodations may require additional documentation and/or time to implement. Complete student information on all related policies, procedures, and guidelines may be obtained at www.csn.edu/drc or the DRC offices on each of the three main campuses.

In order to request accommodations for a disability, students should contact a Disability Specialist in the Disability Resource Center on their primary campus. Students seeking accommodations at our satellite sites or centers should contact the Disability Resource Center at any main campus:

- Charleston702-651-5644
- Cheyenne.....702-651-4045
- Henderson702-651-3795

EARLY CHILDHOOD EDUCATION LAB SCHOOL

The Early Childhood Education Lab School (ECE Lab) is a nationally accredited preschool, child care, and kindergarten program for children ages one through kindergarten that also functions as a laboratory site within CSN's Department of Education for students studying Early Childhood Education and related fields.

The ECE Lab enrolls children of faculty, staff, students, and the community. Hours of operation are Monday through Friday 7:30 a.m. to 6 p.m., with closures for all state holidays and optional programs during the summer. Class sizes are limited and there are waiting lists for all age groups. Early application is strongly recommended. For further information, visit our website at www.csn.edu/pages/3311.asp.

Or contact the ECE Lab at:

- Cheyenne702-651-4004

ENGLISH AS A SECOND LANGUAGE

The Department of International Languages' ESL Program, which is fully accredited by the CEA, offers to both international and local students (including those referred to as "generation 1.5") 20 courses including integrated skills, grammar, reading, listening/pronunciation, conversation, writing, and editing. Most courses are available in the morning, afternoon, and evening, and many are now offered online. A free placement test is required for new students. For more information, contact one of the two full-service language labs:

- Charleston702-651-5739
- Cheyenne.....702-651-5736

LANGUAGE LABS

The Language Labs located on the Charleston, Cheyenne, and Henderson campuses administer English as a Second Language (ESL) placement testing. The Labs also offer international-language students access to audio, video, and computer materials used in developing language proficiency.

LIBRARY SERVICES

CSN Library Services supports the research and academic needs for the college. All CSN students are eligible to have CSN library privileges including a library card which can be used at UNLV and Nevada State for book checkout. CSN has libraries on the Charleston, Cheyenne, and Henderson campuses with computers, group study rooms, expert research assistance from librarians, and collections of books, journals, and films for your use. The library website provides 24/7 access to online resources from any location on or off campus and includes full-text e-books, streaming video, and articles from journals, magazines, and newspapers. The website contains custom online libraries for many CSN programs and also provides a variety of information literacy tutorials and research guides to help with coursework and research assignments. CSN libraries participate in interlibrary loan and online document delivery programs to support borrowing of materials from other libraries. Please visit the library website at www.csn.edu/library for complete information on library resources, hours of service, locations, phone numbers, and policies.

MATH RESOURCE CENTERS

Free individual and group drop-in tutoring is available in the Math Resource Center (MRC) on each campus. In addition to tutoring, students visiting the MRC can utilize the provided computers to access their classes, and obtain advice concerning course and career choices as they relate to mathematics.

- **Charleston Campus**, Room K406
702-651-7320, mrc-wc@csn.edu
- **Cheyenne Campus**, Room 2651
702-651-4685, mrc-cy@csn.edu
- **Henderson Campus**, Room C119
702-651-3517, mrc-hn@csn.edu

MEDIA/GRC TECH TUTORING LAB

The Department of Media Technologies offers drop-in tutoring labs in Photography, Video Editing, and Graphic Communications. Students currently enrolled in PHO or GRC classes are eligible for free tutoring during the posted drop-in lab times or they may request one-on-one tutoring by contacting Tutorial Services at 702-651-4232 or tutorialservices@csn.edu.

PERFORMING ARTS CENTER

Located on the Cheyenne campus, the CSN Performing Arts Center houses the Nicholas J. Horn Theatre and the BackStage Theatre. A variety of theatrical productions, music events, lectures, and activities are presented each year. Students, employees, and the community are all invited to come and enjoy these special events.

For event information or reservations, stop by the Box Office, located in the lobby of the Horn Theatre or call:

702-651-LIVE (5483)

PLANETARIUM AND OBSERVATORY

CSN's Planetarium, the only public planetarium in Southern Nevada, presents performances to the community that feature re-creations of the night sky on its 30-foot diameter domed screen that depict the relative motions of the sun, moon, planets, and stars. Our Digistar™ HD digital projection systems provide science oriented virtual reality experiences.

The Planetarium is located in Room S146 at the south entrance of the Cheyenne campus. Free telescope viewing sessions are held after evening public shows in the nearby Student Observatory on clear nights. Special telescope viewing sessions are also scheduled whenever notable astronomical events occur. The Planetarium, in cooperation with the National Aeronautics and Space Administration (NASA), also operates the NASA/Nevada Regional Educator Resources Center. The Center, located in Room S222-B on the Cheyenne campus, provides science, technology, engineering, and mathematics (STEM) materials to teachers and educators for classroom use.

For information, visit our website at www.csn.edu/planetarium/, or call:

Astronomy Hotline702-651-4SKY (4759)

RECRUITMENT SERVICES

Recruiters are dedicated professionals who provide personal assistance to prospective and newly admitted CSN students throughout the entire college exploration, intake, admissions, and course registration process. In addition to working with traditional high schools, recruiters also work with local businesses, community groups, government agencies, and underserved populations to increase access to CSN's many educational and occupational opportunities. Recruiters regularly schedule campus tours and conduct large-scale outreach events throughout the year. To contact us, please visit www.csn.edu/studentrecruitment or contact:

Recruitment702-651-7416

RE-ENTRY PROGRAM

The Re-Entry program assists individuals with financial need and significant barriers to education and/or employment, including: single parents, displaced homemakers, students with disabilities, and individuals interested in nontraditional occupations (for their gender) in Career and Technical Education (CTE) fields.

Students must complete a Free Application for Federal Student Aid (FAFSA) each year; declare a major field of study in an AAS, AB degree, or certificate program; participate in required meetings; maintain adequate academic progress; and demonstrate financial need to be considered for Re-Entry services.

Students who qualify for the Re-Entry program may be eligible for:

- **Financial Assistance** – Funds may be available to assist with the cost of tuition, books, transportation, uniform, and/or equipment.
- **Textbook Assistance Program (TAP)** – Available to all CSN students.
- **Career Workshops** – Topics may include job search skills, resume and cover letter preparation, career planning, dress for success, budgeting, building a support network, special topics for single parents, time management, etc.
- **Career Advisement/Guidance** – Non-traditional career exploration and career decision-making skills.
- **Career Experience** – Find internships, part-time and summer jobs, and volunteer opportunities to gain career related experience and build skills such as teamwork, task completion, time management and timeliness, communication skills, etc.

Visit our website at www.csn.edu/career or call:

Charleston.....702-651-5089

Cheyenne.....702-651-4681

Henderson.....702-651-3174

SCIENCE RESOURCE CENTERS

The Science Resource Centers are located in Room H-203 (Charleston campus), S-245 (Cheyenne campus), and B-201 (Henderson campus). The centers offer walk-in tutoring on a first come, first serve basis from 9:00 a.m. to 7:00 p.m. Monday through Thursday. Tutors are qualified for most subjects in the Physical and Biological Sciences. In addition, many faculty from Physical and Biological Sciences hold their office hours in the resource centers. These faculty members are available to help students with any subject they qualify to teach.

STUDENT AMBASSADOR PROGRAM

Student Ambassadors are current CSN students selected and trained to work alongside Student Services staff to provide peer-to-peer outreach and enrollment support to prospective and entering CSN students. Student Ambassadors are friendly, enthusiastic and outgoing individuals with strong public speaking skills and a great sense of pride in CSN. Benefits of being a Student Ambassador include becoming part of a prestigious and dynamic student program, developing leadership skills, gaining valuable work experience and earning above average hourly pay rates. Applicants must be full-time students in excellent academic standing (3.5 cumulative GPA or higher).

Those interested in learning more about the program and/or applying please go to our website at www.csn.edu/studentambassadors, or contact:

Recruitment702-651-7416

STUDENT GOVERNMENT

The Associated Students of the College of Southern Nevada (ASCSN) is comprised of an elected student body that represents all CSN students. ASCSN is committed to encouraging students in striving to achieve their educational goals by aiding them with information and resources. ASCSN provides a variety of activities to promote social interaction among students.

Student Clubs and Organizations

Student Government awards funds to official student clubs and organizations. Through this funding, approximately 30 clubs and organizations are able to host a variety of extracurricular events:

- All Nations Native Organization – ANNO
- Alternative Process Photo Club – APPC
- American Sign Language Club – ASLC
- Black Student Association – BSA
- Blue Interest Group – BIG
- Chemistry Club – CC
- Criminal Justice Association – CJA
- CSN Anthropology Club – CSNAC
- CSN Biology Club – CSNBC
- CSN Culinary Club – CSNCC
- CSN Gaming Club – CSNGC
- CSN Math Club – CSNMC
- CSN Spanish Club – CSNSC
- CSN Spirit Squad – CSNSS
- English/Creative Writing Club – ECWC
- Environmental Science Club – ESC
- French Club – FC
- Future Business Leaders of America – FBLA

- Hispanic Student Union – HSU
- International Student Organization – ISO
- Investing in Community Outreach and Networking – ICON's
- Latinos United of North America – LUNA
- Living Sociology Club – LSC
- Otaku Nation
- Phi Theta Kappa – PTK
- Restaurant of the Month Club – RMC
- Sigma Chi Eta – SCE
- Sonography Student Association – SSA
- Student American Dental Hygienists' Association – SADHA
- Student Dental Assistant Association – SDAD
- Students Making a Difference Club – SMAD
- Student Chapter of the National Association of Veterinary Technicians in America – SCNAVTA
- Surgical Conscience Club – SCC

STUDENT LIFE AND LEADERSHIP DEVELOPMENT

The Department of Student Life and Leadership Development helps prepare students for life-long learning and global citizenship by promoting and supporting campus activities that appeal to a diverse community. The department also serves as a resource for the ASCSN student government and clubs, and develops academic, cultural, and social programs and activities which support the academic mission of the college.

Additionally, through the CSN Student Leadership Academy and the CSN Student Professional Development Certificate Program, the department supports students' personal and leadership growth and development.

CSN Student Leadership Academy

The CSN Student Leadership Academy is a certificate program sponsored by the College of Southern Nevada. The program consists of a series of workshops focusing on leadership development. These workshops help students significantly improve their leadership competencies as well as enhance future leadership potential. Key topics include Conflict Management, Effective Organizational Skills, Publicity, Organizational Development and Delegation, Strategic Time Management, Conducting Effective Meetings, Team Building Activities, and Leadership Styles. For more information, please call 702-651-4051.

CSN Student Professional Development Program

The CSN Student Professional Development Certificate Program is sponsored by the College of Southern Nevada Department of Student Life and Leadership Development and Career Services. The program offers students the opportunity to participate in workshops aimed at enhancing

employability skills, professional growth, and career development. Key topics include Business Survival Basics, Dining Etiquette, How to Write the Perfect Resume, Interview Like a Pro, Job Search Tips, Career Planning and Assessment, Networking Strategies, Researching Organizations for Your Dream Job, Marketing Leadership and Transferable Skills, Public Speaking, How to Work a Career Fair, The 4-Year Transfer and Beyond, and Embracing Diversity in Leadership. For more information, please call 702-651-4051.

CSN Serves

CSN Serves is the volunteer and service learning component of Student Life and Leadership Development. We help provide and promote volunteer opportunities at the College of Southern Nevada for students, faculty, and staff. CSN Serves has partnered with various agencies in Nevada to provide invaluable volunteer experiences. For more information, please call 702-651-4698, or visit us on the web at www.csn.edu/csnserves.

CSN Sports Center

The CSN Sports Center at the Cheyenne campus is a full workout facility that includes a full size basketball court, two racquetball courts, two weight rooms, and cardio rooms with the latest exercise equipment. Our men's and women's locker rooms are equipped with dry saunas and center-provided locks to ensure the security of your valuables. Our mission is to engage the CSN campus community in recreation and wellness programs designed to stimulate personal development and enhance academic productivity to enrich the quality of life for a diverse community through excellence in programs, services, and facilities. Our Recreational Sports programs include indoor soccer, basketball, and other popular sports. The Fitness and Wellness programs include Zumba, the Coyote Fitness challenge, and new classes being developed to meet the needs of students, staff, and faculty. For more information on any of our programs, please contact the CSN Sports Center at 702-651-4447 or check us out on the web at www.csn.edu/sportscenter/.

Get Active It's Your Life....It's What We Do!

TRiO STUDENT SUPPORT SERVICES

The TRiO Student Support Services is a federally funded program designed to provide academic support, guidance, and advocacy to first-generation, financial aid eligible, and/or disabled students seeking to complete a two-year degree at CSN and/or transfer to a four-year college or university. Services are offered within a very intensive, integrated, and individualized contact system that encourages participants to develop persistence, self-discipline, responsibility, and confidence. Final acceptance into the program will be determined by a two-tier interview process to ascertain academic need and an ability to benefit.

All TRiO services are free of cost to participants. The TRiO Program is located on the Cheyenne campus, Room E109. For more information call 702-651-4441 or visit www.csn.edu/trio.

TUTORIAL SERVICES

The Office of Tutorial Services provides tutoring assistance to all currently enrolled CSN students on each of the three main campuses. Students who excel in academics may be hired to provide learning assistance to CSN students. Services include:

1. **Free Unlimited** one-on-one tutoring in many subjects with an easy online registration and scheduling system.
2. One-on-One tutoring is offered on all three main CSN campuses; an appointment is required which may be made through an easy online process.
3. CSN provides drop-in **Resource Centers and Learning Labs** that are located on all three main campuses – hours, contact information, and locations can be found at www.csn.edu/tutoring:
 - Accounting Lab
 - Computer and Information Technology (CIT) and Information Systems (IS) Lab
 - Communication Lab
 - Math Resource Center
 - International Language Lab
 - Photography, Graphic Communications, Videography Lab
 - Science Resource Center
 - Writing Center
4. Please visit www.csn.edu/tutoring for more information on CSN Tutorial Services and how to become a tutor, or call **The Office of Tutorial Services** directly at:

Charleston.....	702-651-5732
Cheyenne	702-651-4232
Henderson.....	702-651-3125

VETERANS EDUCATIONAL CENTER

The main purpose of this office is to certify enrollment of those veterans and their dependents using veteran's educational benefits. The CSN Veteran's Educational Center works as a liaison between the Department of Veteran's Affairs (VA) and students enrolled at CSN. If you are a veteran or the dependent of a veteran and believe you may be eligible for Veteran's Education Benefits, visit the CSN VA website at www.csn.edu/va or visit www.gibill.va.gov to complete the initial application for education benefits.

Students accessing their benefits at CSN must complete the following steps:

1. Visit the CSN Veteran’s Educational Center to obtain the necessary information to initiate the VA benefits process.
2. Take placement test(s) for English and Math (if applicable).
3. Request official transcripts of ALL previous training, credits, work experience, on-the-job, vocational or trade school, military experience, to include DD-214 Form to be sent to the CSN Office of the Registrar.
4. Request an evaluation of your transcript by submitting the Transfer Credit Evaluation Form to the Office of the Registrar.
5. Maintain Standard of Progress with a 2.00 cumulative grade point average (CGPA); a lower CGPA may result in probation/suspension. VA will not pay for grades of **W**, **I**, or **AU**, or if a student is placed on Academic Suspension.

For additional information, please contact us at 702-651-5060 or for general information on VA education benefits, students can visit the www.gibill.va.gov website.

Veteran’s Standard of Progress

The Standard of Progress will apply to students who are considered for Veteran’s Educational Benefits. Failure to follow Veteran’s Standard of Progress will result in the discontinuation of educational benefits.

Veteran’s Academic Probation

Students whose cumulative grade point average (CGPA) falls below 2.0, and who have attempted a minimum of 15 credits, will be placed on academic probation at the end of the fall or spring semester. Students placed on academic probation must meet with an academic counselor/advisor prior to registering for another semester or session. Academic probation status appears on official transcripts. A letter is mailed to all students on academic probation informing them of their status and must meet with an academic counselor prior to registering for the following semester. While on VA probation, the student may continue to receive VA Educational Benefits, but must continue to earn a semester grade point average (SGPA) of at least 2.0.

Removal of Academic Probation: Academic probation is removed when a student’s SGPA is raised to 2.0 or higher for the subsequent semester/session. If an Incomplete **I** grade is removed after the student has enrolled for the next semester or session, the effect on the student’s SGPA will be based on its inclusion with grades for the current semester.

Termination of VA Educational Benefits

Students enrolled in CSN classes while on academic probation are subject to Academic Suspension when both their semesters (excluding summer) and cumulative GPA fall below 2.0. On the first academic suspension, veteran students are only allowed to take up to two classes per semester until their CGPA is at least 2.0. While on

Academic Suspension, students must meet with an academic counselor/advisor every semester and must submit a Student Appeal Form with the academic counselor/advisor’s notes and the classes they have been approved to take for the upcoming semester. While on suspension, the veteran student will not be certified to receive Veteran Educational Benefits until the student completes a full-term (fall/spring) semester with an overall SGPA of 2.0 following the Standard of Progress policy. After the student has completed one full term, the student may receive educational benefits on a semester-by-semester basis, given that the veteran student maintains a SGPA of 2.0 until the CGPA is at least 2.0. The College Grading Policy addresses **I** grades. If an **I** grade is converted to an **F** (Failing) grade after one year, the **F** may cause the student’s CGPA to fall below 2.0 for the semester in which the class was originally attended. If this occurs, the above probation/suspension criteria will be applied to the semester. As a result, retroactive suspension could possibly follow. This may result in an overpayment of Educational Benefits which the student may be required to repay.

WRITING CENTERS

The College strongly recommends that all students taking classes with writing assignments use the Writing Center. It is a place where students from all disciplines and at all levels can come and discuss their writing with a trained Writing Assistant. Students can get help with any stage in the writing process, from idea generation, through organization, to final revision. Writing Assistants help students produce quality written essays, research papers, and required assignments by offering feedback, guidance, and support throughout the writing process. Students who visit the Writing Center will learn strategies and techniques to improve the effectiveness of their writing.

No appointment is necessary. Bring a copy of the instructor’s or professor’s writing assignment and guidelines. The Writing Center is free and is located on each main campus. For hours of operation and locations, please contact the nearest campus center:

- Charleston.....702-651-7402
- Cheyenne702-651-4101
- Henderson.....702-651-3187

We look forward to seeing you!

OFFICE OF eLEARNING

The College of Southern Nevada is a leader in eLearning, offering fully accredited degrees to students. Students can choose from a variety of degree programs.

Associate of Arts

- Communication
- Early Childhood Education
- Elementary Education
- English
- Secondary Education
- Special Education
- History
- International Languages
- Psychology
- Sociology
- General Transfer
- Criminal Justice

Associate of Applied Science

- Computer Information Technology
- Accounting
- Business Management
- Criminal Justice – Law Enforcement
- Small Business Management
- Ophthalmic Dispensing Technician

Associate of Business

Associate of General Studies

Certificate of Achievement

- Business Management
- Computer and Information Technology – Networking
- Computer and Information Technology – User Support
- Criminal Justice
- Casino Management
- Hotel Management
- Medical Transcription
- Pharmacy Technician (all courses except practicum are available online)

Online Teaching Certificate of Completion

What is eLearning?

eLearning is an innovative development in higher education that uses technology to facilitate learning without the limitations of time or place. CSN offers courses online so that students around the world can complete a certificate or associate's degree without stepping foot in a classroom.

eLearning students use state-of-the-art technology to connect to faculty members, course mates, and advisors. The great advantage of eLearning is that it gives students the flexibility to achieve an appropriate balance of work, family, community, and educational commitments.

CSN's online courses link students with their faculty member and course mates online through the World Wide Web (Canvas). Online courses are asynchronous, which means that students can sign on and participate at times convenient to them.

Online students need to be prepared to interact with their faculty member and course mates in writing. Strong reading and writing skills in the English language are critical.

The Online Campus creates convenient, high-quality learning opportunities in order to increase capacity and meet the immediate and long-term needs of the community. This endeavor specializes in high quality courses and comprehensive student services, and pursues continuous improvement and innovation. CSN has a strategy that includes developing college-wide expertise in online learning, a systems approach to online learning support, a branding of its program characteristics, and a focus on achieving desired learning outcomes along with student and faculty satisfaction. The Online Campus has a centralized web presence with exemplary online student services, a comprehensive student orientation to online learning and Canvas, and faculty resources.

Typical elements of online courses include:

- asynchronous, frequent student and faculty participation
- lectures and assigned readings (from textbooks and online resources)
- individual and group assignments (for example, case studies and discussion questions)
- individual and group papers
- use of online library resources
- online and proctored quizzes and examinations

What do I need to be successful?

Success in online courses depends on self-discipline and the ability to learn without face-to-face interaction. CSN's online courses maintain the same rigor and high standards of its classroom courses. Academic progress is established and maintained through regular course participation.

Online students need to be prepared to interact with their faculty member and course mates in writing. Strong reading and writing skills in the English language are critical.

What are the technical requirements to take an online course?

To participate in an online course via the World Wide Web, you should have:

- an Internet service provider (ISP)
- an active CSN student e-mail account, and

Some courses, such as those in business, finance, and accounting, require additional software such as a Windows-based spreadsheet program or MS Project.

What is an ePortfolio?

CSN offers students access to an ePortfolio through classes they are enrolled in. Students can collect and organize their work from both inside and outside the classroom. From their latest class essay to photos and comments posted during study abroad, the ePortfolio enables students to integrate classroom, co-curricular, life, and work experiences. The ePortfolio supports all common file types – from documents and spreadsheets to sound recordings, photographs, and video clips.

Contact Information:

Office of eLearning
702-651-5619 (main phone number)
702-651-5741 (fax)
Charleston Campus
Sort Code – W2C
elearning@csn.edu

4. It is located in the upper right hand corner of the blue box and reads Login Information.
5. Click on this link and follow the instructions on the next page to activate your account.
6. If you experience any issues with activating your account or logging into Canvas, call the College of Southern Nevada technical helpdesk at 702-651-4357 or (800) 630-7563.

CANVAS

How do I log into my Canvas account?

You log in to your Canvas account using your 10-digit NSHE ID number as your Canvas ID, and the password you use for your network accounts as your password.

1. Go to CSN's homepage.
2. Locate the Online Campus/Courses link on the left side of the page and click it.
3. You will be taken to the Online Campus homepage.
4. Click Login Now in the CSN Online Campus Course box on the right side of the page.
5. You will be taken to the Canvas Login screen.
6. Enter your 10-digit NSHE ID number in the Canvas ID box.
7. Use the same password as you do for your CSN Network account. If you do not have one you can activate at this time.
8. Then, click on the Log in box.
9. You will be taken to your Canvas dashboard page. To access your courses in Canvas, locate Courses at the top of the page in the blue area.
10. Scroll your mouse over Courses and you will see the list of courses that you are currently enrolled in.
11. Scroll down to the course you want to access and click on it.

How do I activate my Canvas account?

1. Before you access Canvas for the first time, you must activate your account.
2. To activate your Canvas account, follow the first 5 steps above.
3. When you reach the Log In to Canvas page you will see a red link in the blue box in the middle of the page.

ADVANCED AND APPLIED TECHNOLOGY

The School of Advanced and Applied Technologies is comprised of three departments. They offer a wide variety of programs leading to...

- An Associate of Science (AS) degree
- Associate of Applied Science (AAS) degree
- Certificates of Achievement (CA) and
- Certificates of Completion (CC)

...and preparing students to meet the high-tech training demands of Southern Nevada's workforce.

The School offers courses on all CSN campuses, both during the day and evening with selected Saturday offerings. All programs emphasize hands-on learning along with theory and are offered in well-equipped classrooms and laboratories. Computer laboratory facilities, open seven days a week, are also available.

Departments:

Applied Technologies
 Computing and Information Technology
 Media Technologies

ARTS AND LETTERS

Through studies in the School of Arts and Letters, you can explore the worlds of foreign language and culture, literature, fine art, writing, and communication – while discovering a new world within yourself.

Whether your interest is in improving a skill for work, or to expand your sensibilities about art, the School of Arts and Letters will provide you with a myriad of options from which to choose. We want students to understand and appreciate their cultural and intellectual heritages and those of others. We do so to foster an appreciation for lifelong learning, to enable students to be better prepared for changing work environments, and to encourage students to contribute to society by shaping their local and global communities.

Departments:

Communication
 English
 Fine Arts
 International Languages

BUSINESS, HOSPITALITY AND PUBLIC SERVICES

The School of Business, Hospitality and Public Services offers a variety of courses and training necessary to prepare students to be successful in their chosen career field. In addition, the School offers programs for transfer students along with self-enhancement courses, all designed to meet the diverse needs of students. The School also provides certification programs and internship opportunities to better serve students and the community.

Included in the broad range of educational opportunities offered through the School are Associate of Business and Associate of Arts degrees for transfer students, Associate of Applied Science degrees in 15 occupational areas as well as a number of certificate programs.

Departments:

Accounting, Finance, and Computer Office Technology
 Business Administration
 Public Safety and Human Services
 Hospitality Management

EDUCATION, BEHAVIORAL AND SOCIAL SCIENCES

The School of Education, Behavioral and Social Sciences is comprised of three departments and offers courses in a variety of disciplines as part of the social sciences and pre-professional education curriculum of the institution. Students may take introductory courses in many of the disciplines as they work towards the Associate of Arts, Associate of Applied Science degrees, and Certificates at CSN or towards a bachelor's degree in one of the NSHE comprehensive universities, colleges, or elsewhere. In addition to these, the School provides junior and senior level courses in education, philosophy, and economics in support of CSN's Bachelor of Science Degree in Dental Hygiene.

This School is multi-disciplinary and dedicated to meeting local, state, and national needs, while maintaining a global focus. It takes the view that many of the issues we face will find resolution not within the narrow confines of a particular discipline, but at the boundaries of the disciplines.

You will come to interact with professors and instructors who will challenge, assist, engage, instruct, and guide you as you make the journey to self-discovery, local, state, national, and global awareness. We promise you a challenging and exciting curriculum that will change you and enable you to change your community and our world for the better.

Departments:

Education
 Human Behavior
 Social Sciences

HEALTH SCIENCES

The Ralph and Betty Engelstad School of Health Sciences offers a Bachelor of Science degree in Dental Hygiene. There are 12 Associate Degree programs; 11 Certificates of Achievement; and 15 Certificates of Completion. The Charleston campus, located at the Southeast corner of Torrey Pines Drive and West Charleston Boulevard, is the site of the Health Sciences Programs. While the majority of health program prerequisites and general education requirements may be taken at any of the three main campus locations, health program coursework is held primarily at the Charleston campus.

Entrance into many of the Health Sciences Programs is limited. The Health Programs Advisement Office holds weekly orientation on the step-by-step procedures for admission. Orientation is required of all students interested in applying to a Limited-Entry Program. The Health Advisement Offices are located at the Charleston and Cheyenne campuses.

Departments:

Dental Sciences, Diagnostic Evaluation and
Rehabilitation Services
Health Related Professions
Nursing

SCIENCE AND MATHEMATICS

The School of Science and Mathematics provides excellence in instruction and learning in mathematics and sciences to a diverse student body. The School's curriculum is designed to develop students' critical thinking skills and to promote their scientific and mathematical knowledge and understanding. The School also offers several different emphases of the Associate of Science degree—Biology, Mathematics, Chemistry, Earth Science, Environmental Science, Geological Science, and Pre-Engineering.

School faculty provide outstanding teaching in classrooms, lab-settings, and via online courses. These faculty not only have outstanding academic backgrounds, but they also have proven records of outstanding teaching. Many are also active in their professional organizations to keep current in their fields.

Departments:

Biological Sciences
Mathematics
Physical Sciences

DIVISION OF APPRENTICESHIP STUDIES

CSN has formed credit granting partnerships with several area registered apprenticeship programs. These programs are required to adhere to a set of registered standards as developed by the United States Department of Labor, Bureau of Apprenticeship and Training. The specific requirements for the standards are listed in Nevada Revised Statute 610, and each program's standards are reviewed and approved by the Nevada State Apprenticeship Council. Additionally, program curriculum is reviewed and approved by the Nevada Department of Education. A minimum of 144 hours of related instruction is required for each year of apprenticeship, and the period of indentureship ranges from a minimum of two to a maximum of five years depending on the particular apprenticeship program. Individuals become indentured through the Joint Apprenticeship and Training Committee selection process. A specific Associate of Applied Science (AAS) and/or Certificate of Achievement are available to any enrolled, registered apprentice.

College credit is awarded for the special program courses taught and paid for by the apprenticeship partner. Individual apprentices are required to enroll in general education courses required for completion of the AAS and/or Certificate.

For information about the qualifications necessary for entering the various programs, please contact the CSN Division of Apprenticeship Studies office at 702-651-4163.

Approved program partnerships include:

- Bricklayers and Allied Craftsmen
- Carpenters
- Environmental and Construction Laborers
- Floor Coverers
- Glaziers
- Heat and Frost Insulators
- Inside Wireman and Installer/Technicians
- Ironworkers
- Operating Engineers
- Operating and Maintenance (Stationary) Engineers
- Painters and Drywall Technicians
- Plasters and Cement Masons
- Plumbers and Pipe Fitters
- Roofers and Waterproofers
- Sheet Metal Workers
- Teamsters Convention Set-Up Training

DIVISION OF WORKFORCE AND ECONOMIC DEVELOPMENT

Students seeking educational opportunities, other than specific credit degrees offered at CSN main campuses, have access to additional options through the Division of Workforce and Economic Development Programs.

The Division of Workforce and Economic Development offers non-credit classes and programs in a format to meet the needs of business and industry, local government, and educational institutions through customized training programs and curricula. Training programs and workshops are tailored to fit the specific needs of clients so they are able to quickly apply what they have learned.

The Division is divided into several workforce specialty areas that include: Community and Personal Enrichment; Adult Literacy and Language; Business and Protective Services; American Heart, Healthcare and Emergency Medical Services (EMS) Programs; and Occupational Health and Safety Programs. Classes are offered at company worksites and at the Sahara West Center and other Learning Centers located throughout the Las Vegas Valley and at rural locations in Southern Nevada.

The Division of Workforce and Economic Development offers continuing education under these (or the following) program specialty areas:

Adult Literacy and Language: The division offers the Adult Basic Education Program with classes in English as a Second Language and GED preparation.

American Heart, Healthcare and Emergency Medical Services (EMS) Programs: This program offers Basic Life Support, ACLS, PALS, and other certifications to the healthcare and emergency services industries to meet their certification and regulatory requirements. Courses are available throughout the Southern Nevada region.

Community and Personal Enrichment: This program offers ongoing fee-based, non-credit classes every semester to assist individuals in their personal development. Classes address a broad variety of personal growth courses including but not limited to, arts and crafts, recreational and leisure interests, professional and personal development programs, software and computer skills, test preparation, theatre, and language classes. Classes are listed in the Community and Personal Enrichment Schedule distributed three times a year and available at all CSN campuses and online at www.csn.edu/workforce.

Business Services and Protective Services: This program offers skills assessments, online skills remediation, job search workshops, customized training for employers, and skill classes for job entry and/or career advancement.

Occupational Health and Safety Programs: CSN is the site of one of the region's OSHA Training Institute Education Centers. This is the first point of contact for business and industry safety trainers and Human Resource Managers for safety and related training issues. Short and long term programs are designed to meet the pre, post-hire, and continuing education needs for entry and/or re-certification in these areas as well as mandatory local and state OSHA training requirements.

HONORS PROGRAM

The mission of the Honors Program at the College of Southern Nevada is to provide high-achieving students with an enriched academic environment that promotes intellectual curiosity, social awareness, and scholarly excellence.

Program Outcomes:

- Synthesize, evaluate, integrate and apply information through multiple formats and approaches from a variety of sources.
- Identify and apply methodologies, principles, and research strategies required for creative interdisciplinary scholarship.
- Express ideas and concepts precisely and persuasively in multiple formats.
- Work both independently and collaboratively on projects, encouraging a sense of community, and fostering relations through academic discourse.
- Engage with a wide range of ideas, cultures, values, and beliefs.

Admissions Requirements

Students interested in participating in the Honors Program must submit an application for admittance and meet the following criteria:

New Student:

- Student must have achieved a cumulative high school GPA of 3.5 or higher, based on a 4.0 scale.
- Student must have completed the English and Math placement tests.
- Student must submit two letters of recommendation from former teachers or advisors.
- Student must submit a 500 – 1000 word essay on a topic (to be determined by the committee) that illustrates to the committee either the student's personal views on a current event or addresses the student's personal priorities and goals.

Existing CSN Student:

- Student must submit an unofficial CSN transcript.
- Student must hold a 3.25 GPA after completed credits (with no grade lower than a C).
- Student must submit two letters of recommendations from former teachers or advisors.
- Student must submit a 500 – 1000 word essay on a topic (to be determined by the committee) that illustrates to the committee either the student's personal views on a current event or addresses the student's personal priorities and goals.

Requirements to stay in the program:

- Student must maintain a 3.25 GPA (with no grade lower than a C).

NOTE: *Intellectual motivation is a significant factor in acceptance into the program; consequently, those students who may fall short of the GPA criteria, but wish to undertake the challenge, may be considered for admission into the program at the discretion of the Honors Committee.*

Course Offerings

Currently, the Honors Program offers the following courses:*

- BIOL 251H
- COM 101H
- ENG 101H
- ENG 102H
- ENG 231H
- ENG 232H
- ENG 271H
- HIST 101H
- HIST 102H
- HIST 217H
- PHIL 101H
- SOC 101H
- PSY 101H
- WMST 113H

**Not every course will be offered each semester.*

GENERAL INFORMATION

Which Catalog?

The College of Southern Nevada publishes an annual catalog, which begins fall semester and ends with the following summer term. Each associate degree or certificate of achievement student seeking to graduate from CSN is required to satisfy course requirements as defined in the college catalog.

A student may select the catalog year governing requirements for graduation under the following circumstances:

- a. The year in which the student enrolled, or
- b. The year the student officially selects a program of study, or
- c. The year in which the student will complete the degree requirements for an associate, bachelor’s degree or a certificate of achievement.

If a degree is offered for the first time after a student has enrolled, the student may choose the catalog year in which the degree or major was first offered. The selected catalog may not be more than six years old at the time of graduation for students receiving an associate degree or certificate of achievement, and not more than ten years old at the time of graduation for students receiving a bachelor’s degree.

Credit and GPA Requirements

All candidates for graduation must earn a minimum of 30 credits for a certificate of achievement, 60 credits for an associate degree and 120 credits for a bachelor degree. Candidates for graduation must have a minimum cumulative grade point average of 2.0. Candidates for graduation must complete a minimum of 15 semester credit hours within CSN. For the Associate of Applied Science degree, a minimum of 15 credits must be earned in the special program requirements. Non-traditional credit, credit transferred from another institution, or credit earned through the course challenge process may not be used to establish the 15 credit residency requirement.

CSN General Education Core Requirements

Completing general education at CSN results in fulfilling the following student learning outcomes in the categories of English composition, mathematics, analytical reasoning, constitution, communication, literature, natural science, social science, humanities, human relations, and fine arts.

- Construct college-level academic and professional writing using appropriate conventions;
- Employ research methods including how to obtain and use information via both print and electronic media;
- Solve problems in quantitative mathematical reasoning including probability, statistics, geometry, and consumer mathematics;

- Demonstrate an understanding of the theoretical foundations of analytical reason and its connection to natural language;
- Examine and interpret the United States and Nevada constitutions;
- Demonstrate general academic literacy applied to oral communication appropriate to different audiences and purposes;
- Use critical reading skills to engage and analyze literary texts;
- Define and apply basic concepts in one or two scientific disciplines;
- Acquire appreciation or introductory knowledge about social sciences and their insights about individual or group behaviors;
- Acquire appreciation or introductory knowledge of the humanities or languages, and at least one of the fine arts;
- Experience or interpret cultural, social and other differences present in our society.

CSN General Education Core Distribution:

Core Content	AA	AB	AS	AAS
English	6	6	6	3
Literature	3	3	3	
Fine Arts	3*	3	3	3**
Humanities	6*	6	6	3**
Analytical Reasoning	3	3	3	
Mathematics	3	3	3	3
Natural Science	6	6		3
Social Science	9*		9	3**
Constitution	4	4	4	4
Communication				3
Human Relations				3

*Distribution depends on emphasis

**Fine Arts/Humanities/Social Science Requirement.

For the Comprehensive Degree Requirements, go to <http://www.csn.edu/uploadedfiles/General%20Counsel/Policies%20&%20Procedures/FAC%209.1%20-%20AA%20AS%20and%20AB%20Gen%20Ed%20policy.pdf>

or

<http://www.csn.edu/uploadedfiles/General%20Counsel/Policies%20&%20Procedures/FAC%2016.1%20-%20AAS%20Gen%20Ed%20Final.pdf>

Transfer Degrees

Students who plan to transfer to a four-year college or university can earn the Associate of Arts, Associate of Business, or the Associate of Science degree. These degrees provide the first two years of a four-year degree. **Any student transferring from the College of Southern Nevada with an Associate of Arts, Associate of Business, or an Associate**

Associate of Science degree will have that degree counted as fulfilling UNLV's general education requirements without the necessity for a course-by-course articulation.

Always see a counselor to outline a detailed guided pathway of study and to obtain all current information on CSN degree requirements leading to graduation. See Transfer Students' Rights and Responsibilities in this catalog.

COURSE NUMBERING INFORMATION

Remedial/developmental courses (099 or lower courses) may serve as prerequisites for courses but do not count toward total credits or fulfill degree requirements.

Remedial/Developmental Courses	001-099
Lower-Division Courses	100-299
Upper-Division Courses	300-499

COURSE SUFFIXES

Courses with a B suffix -

These courses may be non-transferable for a NSHE baccalaureate degree.

Example – XYX 123B

Courses with an E suffix -

These courses are designated as lecture (for music classes only).

Example – MUS 201E

Courses with a F suffix -

These courses are designated as “Ear-Training and Sight-Singing lab” (for music classes only).

Example – MUS 201F

Courses with a H suffix -

These courses are part of the Honors Program. See the Honors Program section of the catalog for more information.

Example – ABC 101H

Courses with a L suffix -

These courses are designated as labs. Please note that not all lab courses have the L suffix.

Example – XYZ 100L

BACHELOR OF SCIENCE

BACHELOR OF SCIENCE

The Bachelor of Science Program allows associate degree students and licensed dental hygienists the opportunity to build upon their current knowledge, enhance their current professional role, and advance to broader careers to meet the growing public health and education needs in dentistry.

The Bachelor of Science degree in Dental Hygiene will prepare dental hygiene professionals for enhanced roles and responsibilities within the emerging profession. The curriculum is designed to introduce students to the expanding role of dental hygienists in public health and education. Graduates of the Baccalaureate program will be qualified for an array of challenging career opportunities in public health, education, administration, research, management and related fields.

Studies can be undertaken on a full-time or part-time basis. All courses are offered online, in order to provide flexibility for each student's busy schedule.

Students transferring with an associate degree or equivalent from an accredited dental hygiene program will have that degree counted as fulfilling CSN's lower division general education requirements without the necessity for a course by course articulation.

This is a limited entry program. All students must satisfy the U.S./Nevada constitution legislative requirement.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to acquire and synthesize information in a critical, scientific and effective manner.
- Demonstrate the ability to interact with other health professionals to provide educational services and strategies that promote and advance the health of the public.
- Demonstrate the ability to serve in roles and assume responsibility for health promotion and disease prevention activities for diverse populations by involvement in education and public health programs.
- Demonstrate the ability to contribute to the advancement of the dental hygiene body of knowledge and/or conduct research.

GENERAL EDUCATION REQUIREMENTS (50 Credits):

	CR	SEMESTER
LOWER DIVISION EDUCATION REQUIREMENTS CREDITS AWARDED:	37	
UPPER DIVISION GENERAL EDUCATION REQUIREMENTS: 13		
ENG 333 Professional Communications	3	_____
EPY 303 Educational Psychology	4	_____
PHIL 302 Intermediate Reasoning and Critical Thinking	3	_____
PHIL 311 Professional Ethics	3	_____

SPECIAL PROGRAM REQUIREMENTS (73 Credits):

	CR	SEMESTER
DENTAL HYGIENE CREDITS AWARDED	51	
Plus 18 credits from the following:		
DH 400 Group Dynamics and Human Relationships	3	_____
DH 402 Public Health and Special Populations	2	_____
DH 404 Research Methodology	2	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
DH 406 Health Care Administration	2	_____
DH 408 Teaching Concepts for the Oral Health Professional	2	_____
DH 410 Cross Cultural Communication in Health Care	3	_____
DH 440 Capstone Seminar I	2	_____
DH 442 Capstone Seminar II	2	_____

Plus 4 credits from the following:

FOR PUBLIC HEALTH TRACT:

DH 412 Dental Public Health Administration	2	_____
DH 422 Oral Epidemiology and Biostatistics	2	_____

OR

FOR EDUCATION TRACT:

DH 418 Advanced Education Concepts	2	_____
DH 428 Clinical/Laboratory Teaching	2	_____

DH-BS **123** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

BACHELOR OF APPLIED SCIENCE

The Bachelor of Applied Science program allows associate degree students and registered respiratory therapists the opportunity to build upon their current knowledge, enhance their current professional role and advance to broader careers.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Summarize respiratory leadership characteristics and assess managerial techniques.
- Evaluate theory and practice of educational modalities in clinical and non-clinical settings.
- Verify advanced practitioner skills through clinical performance in specialty area.
- Validate cultivation of skills in specialty area through presentation or research project.
- Critically evaluate research methodology, analyses, and literature.

BACHELOR OF APPLIED SCIENCE

GENERAL EDUCATION REQUIREMENTS (41 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 102, 113, 114	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 124 or above	3	_____
SCIENCE: BIOL 189, 223, 224, 251	16	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: PHIL 302 and PHIL 311 and one of the following: AM, ANTH, ART, COM, DAN 101, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (80 Credits):

	CR	SEMESTER
CLS 151 Phlebotomy	2	_____
CRS 111 Introductory Concepts of Cardiorespiratory Sciences	3	_____
CRS 112 Introductory Concepts of Cardiorespiratory Equipment	1	_____

Continued in next column.

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

Continued from previous column.

	CR	SEMESTER
CRS 115 Clinical Practicum I	4	_____
CRS 121 Advanced Concepts of Cardiorespiratory Sciences	3	_____
CRS 122 Advanced Concepts of Cardiorespiratory Equipment	1	_____
CRS 123 Applied Cardiorespiratory Assessment	3	_____
CRS 124 Cardiorespiratory Pharmacology	3	_____
CRS 125 Clinical Practicum II	4	_____
CRS 135 Clinical Practicum III	3	_____
CRS 211 Neonatal and Pediatric Cardiorespiratory Care	3	_____
CRS 212 Neonatal and Pediatric Cardiorespiratory Equipment	1	_____
CRS 213 Cardiorespiratory Diagnostics	3	_____
CRS 214 Cardiorespiratory Diagnostics Equipment	1	_____
CRS 215 Clinical Practicum IV	4	_____
CRS 221 Continuity of Cardiorespiratory Care	3	_____
CRS 222 Seminar for Success	1	_____
CRS 225 Clinical Practicum V	4	_____
CRS 312 Cardiorespiratory Leadership Dynamics	3	_____
CRS 313 Education and Mentoring in the Cardiorespiratory Setting	3	_____
CRS 315 Clinical Practicum VI	4	_____
CRS 322 Research and Evidence-Based Practice	3	_____
CRS 412 Long-Term and Palliative Survey of Cardiorespiratory Care	3	_____
CRS 421 Essentials of Sleep	3	_____
CRS 422 Special Project in Cardiorespiratory Sciences	1	_____
CRS 425 Clinical Practicum VII	4	_____
EGG 131 Technical Physics I	4	_____
or		
PHYS 110 Conceptual Physics or above		
HIT 117B Medical Terminology I	1	_____
HIT 165B Pathophysiology	4	_____

CRS-BAS **121** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

BACHELOR OF APPLIED SCIENCE

BACHELOR OF APPLIED SCIENCE

The Medical Laboratory Scientist (MLS) is an important member of the health care team in hospitals, clinics, medical research and teaching centers, and is an indispensable participant with physicians in providing critical diagnostic information. The MLS functions as a dependable, ambitious and highly motivated professional capable of handling high stress situations with ease and confidence.

The Medical Laboratory Scientist performs and interprets diagnostic laboratory procedures using state-of-the-art instrumentation to aid in the detection, diagnosis and treatment of disease; monitors the standards of accuracy and precision in the performance of tests; performs routine maintenance; analyzes and corrects instrument problems; researches, evaluates and implements new procedures; and may be responsible for fiscal/personnel management of laboratory.

The Bachelor of Applied Science degree in Medical Laboratory Scientist combines academic and laboratory courses on campus with practical experience at clinical affiliate sites. The BAS in Medical Laboratory Scientist Program will seek program accreditation through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate comprehension of concepts and techniques in all major clinical laboratory disciplines.
- Demonstrate the knowledge and skills necessary to perform and interpret complex laboratory procedures.
- Perform and interpret associated quality assurance procedures.
- Develop skills in leadership, resource management, research and teaching.
- Demonstrate entry-level competencies necessary to secure employment as a medical laboratory scientist.

GENERAL EDUCATION REQUIREMENTS (54 Credits):

SPECIAL PROGRAM REQUIREMENTS (66 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____
ENGLISH: ENG 102 or 114 and ENG 333	6	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 124 or above	3	_____
SCIENCE: BIOL 196, 197, 214 or BIOL 214, 223, 224 and CHEM 110, 111, 220 or CHEM 121, 122, 220	23	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: ECON 261, PHIL 302, PHIL 311 Plus 3 credits from the following: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY SOC, THTR, WMST 113	12	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
CLS 151 Phlebotomy	2	_____
CLS 152 Applied Phlebotomy	2	_____
CLS 153 Phlebotomy Clinical Practicum	2	_____
CLS 161 Urinalysis and Body Fluids	1	_____
CLS 162 Applied Urinalysis and Body Fluids	1	_____
CLS 241 Clinical Chemistry I	3	_____
CLS 242 Applied Clinical Chemistry I	2	_____
CLS 251 Immunology/Immunoematology I	2	_____
CLS 252 Applied Immunology/Immunoematology I	2	_____
CLS 265 Laboratory Operations I	1	_____
CLS 271 Clinical Microbiology I	3	_____
CLS 272 Applied Clinical Microbiology I	2	_____
CLS 291 Hematology I	2	_____
CLS 292 Applied Hematology I	2	_____
CLS 294 Clinical Practicum I	2	_____
CLS 295 Clinical Practicum II	2	_____
CLS 296 Clinical Practicum III	4	_____
CLS 365 Laboratory Operations II	1	_____
CLS 446 Clinical Chemistry II	2	_____
CLS 447 Applied Clinical Chemistry II	1	_____
CLS 448 Hematology II	2	_____
CLS 449 Applied Hematology II	1	_____
CLS 456 Immunology/Immunoematology II	2	_____
CLS 457 Applied Immunology/Immunoematology II	1	_____
CLS 476 Clinical Microbiology II	2	_____
CLS 477 Applied Clinical Microbiology II	1	_____
CLS 478 Research Methods	2	_____
CLS 491 Clinical Practicum - Chemistry	4	_____
CLS 493 Clinical Practicum - Immunology/Immunoematology	4	_____
CLS 495 Clinical Practicum - Microbiology	4	_____
CLS 497 Clinical Practicum - Hematology	4	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

120
MLS-BAS Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. Students who are transferring outside the NSHE are advised to select courses that meet the requirements of the institution to which they intend to transfer. The AA allows for a disciplinary emphasis and leads to further, specialized study at a four-year college or university.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Produce oral and written communication befitting the context and audience.
- Utilize mathematical, symbolic, logical, graphical, geometric, or statistical analysis for the interpretation and solution of problems.
- Identify and analyze a problem, generate and consider potential solutions, and defend the best solution based on evidence and reasoning.
- Synthesize information from a variety of academic disciplines.
- Examine the variations in human culture and incorporate perspectives of diversity.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.



GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (25 Credits):

	CR	SEMESTER
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____

SEE A COUNSELOR TO SELECT 16 CREDITS:

	CR	SEMESTER
	16	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



Counselor Signature _____
Date

Student Signature _____
Date

AA **60**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate ability to distinguish among the fields of psychology, sociology, and anthropology, including theoretical perspectives, methodologies, and levels of analysis.
- Demonstrate ability to apply at least three anthropological tools/concepts/principles and analysis of real situations in family, friendship groups, workplace, students and/or other groups.
- Demonstrate ability to distinguish among the four sub-fields of anthropology, including historical development, methodology, and theoretical orientation.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
SOCIAL SCIENCES: (Six credits must be from two different disciplines) CRJ 104, ECON, PSC, PSY, SOC, WMST 113	6	_____
ANTH 101 Introduction to Cultural Anthropology	3	_____
ANTH 102 Introduction to Physical Anthropology	3	_____
ANTH 105 Introduction to World Archaeology	3	_____
ANTH 106 Introduction to Anthropological Linguistics	3	_____
ANTH 299 Capstone Course in Anthropology	1	_____
PSY 210 Introduction to Statistical Methods	4	_____
Plus 6 credits from the following:		
FOR GENERAL ANTHROPOLOGY: ANTH 112 or above	6	_____
FOR AFRICAN CULTURE: ANTH 201, 204, 205, 206, 209, 216 or ENG 223	6	_____

ASSOCIATE OF ARTS

ANTH-AA **64** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Apply critical thinking skills in the production and analysis of works of art.
- Create art that demonstrates strong foundational skills in the application of technique.
- Articulate orally and through written responses to works of art using appropriate language of art.
- Demonstrate knowledge of the artistic practices and cultural contexts of a variety of artistic traditions.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ART 101 Drawing I	3	_____
ART 102 Drawing II	3	_____
ART 107 Design Fundamentals I (2-D)	3	_____
ART 216 Sculpture I	3	_____
ART 231 Painting I	3	_____
ART 260 Survey of Art History I or ART 261 Survey of Art History II	3	_____
ART 262 Survey of Asian Art or ART 263 Survey of African, Oceanic, and Native American Art	3	_____
ART 298 Portfolio Emphasis	3	_____
Plus 3 credits from the following:		
ART 124 Introduction to Printmaking	3	_____
ART 135 Photography I	3	_____
ART 141 Introduction to Digital Photography	3	_____
ART 201 Life Drawing I	3	_____
ART 211 Ceramics I	3	_____
ART 243 Digital Imaging I	3	_____
ART 265 Introduction to Contemporary Art	3	_____

ART-AA **62**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts in Communication is a general transfer program for students who plan to transfer to a baccalaureate-level institution. This program offers students a solid foundation in communication theory and extensive practice in application of communication skills. Our courses cover public speaking, interpersonal communication, group communication, intercultural communication, film criticism, survey of rhetorical studies, survey of communication studies, argumentation and debate, and a variety of special topics within the discipline.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate effective and appropriate communication choices as sender, receiver, and observer.
- Understand the human communication process in a variety of contexts: interpersonal, public, group, and mass.
- Understand, analyze and evaluate major theories of communication as they invent, research, organize, and deliver structured speeches, papers, or projects.
- Demonstrate competence with technologies and equipment common to communication practices.
- Apply critical analysis and logical thinking toward making informed, reasoned, and equitable decisions.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
HUMANITIES: ENG 223 or above, HIST International Languages 111 or above, PHIL	3	_____
COM 101 Oral Communication	3	_____
COM 102 Introduction to Interpersonal Communication	3	_____
COM 216 Survey of Communication Studies	3	_____
Plus 15 credits from the following:		
COM 133 Culture and Communication and COM Electives	3 12	_____ _____

ASSOCIATE OF ARTS

COM-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The AA degree with Creative Writing emphasis focuses on the writing of fiction or poetry. As knowledge of the genres and traditions of literature is central to the development of a writer or poet, courses that include the study of the elements of fiction and poetry are integrated into the program.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge and use of the forms and component elements of the genre (fiction or poetry).
- Identify purpose and audience within the context of fiction or poetry.
- Understand literary elements such as use of character, setting point of view, plot, style, and theme for fiction; metaphor, simile, meter, symbol, allusion, narrative, and theme for poetry.
- Complete a portfolio with work that exhibits effective use of language, self-editing, and controlled voice in a given genre.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
International Languages 111 or above (courses must be in a single language)	8	_____
COM 101 Oral Communication	3	_____
ENG 205 Introduction to Creative Writing	3	_____
ENG 296 Portfolio Assessment	1	_____
Plus 6 credits from the following:		
ENG 220 Writing Poetry	3-6	_____
and/or		
ENG 221 Writing Fiction	3-6	_____
Plus 6 credits from the following:		
ENG 243 Introduction to Short Story		
ENG 261 Introduction to Poetry		
ENG 275 Contemporary Literature		
ENG 278 Readings in the Contemporary Novel		

ENG CW-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts Degree in Criminal Justice is intended to provide students with the skills, abilities and knowledge needed in order to become practitioners, to transfer to another institution, and to continue their education. The degree will provide students with a broad overview of the criminal justice system and the criminal justice process, the origin and purpose of formalized criminal laws and other methods of social control, factors that contribute to deviant behavior, methods by which crime might be controlled, and various perspectives relating to the purpose of the criminal justice system in contemporary American society.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of the history and nature of the major components of the criminal justice system: police, courts, and corrections.
- Demonstrate familiarity with the basis of decision-making in the criminal justice process, the social and political context of the legal system, important constitutional issues, and how criminal law differs from other forms of law.
- Demonstrate knowledge of the overall problem of crime in the United States, including different types of crimes.
- Understand current issues related to crime prevention and rehabilitation of offenders.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER		CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____	CRJ 104	Introduction to Administration of Justice	3 _____
LITERATURE: ENG 223 or above	3	_____	CRJ 120	Community Relations	3 _____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____	CRJ 130	Survey of Criminal Law	3 _____
HUMANITIES: COM 101 and HIST, International Languages 111 or above, PHIL	6	_____	CRJ 220	Criminal Procedures	3 _____
ANALYTICAL THINKING: PHIL 102	3	_____	CRJ 270	Introduction to Criminology	3 _____
MATHEMATICS: MATH 120, 124 or above	3	_____	Plus 12 credits from the following:		
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____	CRJ 106	Introduction to Corrections	3 _____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	CRJ 155	Juvenile Justice System	3 _____
			CRJ 164	Introduction to Criminal Investigation	3 _____
			CRJ 211	Police in America	3 _____
			CRJ 215	Probation and Parole	3 _____
			CRJ 235	Legal Method and Process	3 _____
			CRJ 286	Sexual Abuse of Children	3 _____

ASSOCIATE OF ARTS

CRJ-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

This degree is designed to provide for the first two years of college preparation for students wanting to be certified as early childhood teacher (preschool through second grade), who plan to become a paraprofessional (Instructional Aide) and/or in preparation for other early childhood careers.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the dimensions of multicultural education, and demonstrate knowledge of the appropriate pedagogical practices for teaching diverse students.
- Demonstrate the use of computers, programs and software, the internet and technological tools.
- Explain the major theoretical perspectives of educational psychology and apply the concepts and methods of psychology to teaching, learning and schooling.
- Explain the variety of conventional and informal appraisal techniques for evaluation of the learners' progression and performance, and provide various modifications within the instructing and learning strategies.
- Explain the historical, legal, and philosophical foundations, setting, problems, complexities, and issues related to contemporary early childhood education.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101, HIST 217	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 123 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ECE 232 Practicum: Infant and Toddler	3	_____
ECE 250 Introduction to Early Childhood Education	3	_____
ECE 251 Curriculum in Early Childhood Education	3	_____
ECE 252 Infant/Toddler Curriculum	3	_____
ECE 260 Children's Literature	3	_____
EDU 210 Nevada School Law	2	_____
EDU 214 Preparing Teachers to Use Technology	3	_____
EDU 220 Principles of Educational Psychology	4	_____
EDU 280 Valuing Cultural Diversity	3	_____
EDU 299 Education Portfolio	1	_____

ASSOCIATE OF ARTS

ECEEDUC-AA **63** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Economics degree builds upon a theoretical foundation and statistical training that prepares students to think analytically and critically to solve complex problems, as well as to recognize the component of human behavior reflecting economics as a social science. The Associate of Arts Degree with an Economics Emphasis offers the choice between a General Economics track and an Applied Financial Economics (AFE) track. The General Economics is a general transfer program for students who are planning to transfer to a baccalaureate-level program. The AFE program will assist in preparing for a multitude of investment and risk management licenses for those seeking to continue in that path. Completion of the AFE track will include an Internship in Financial Economics with interactive participation of financial institutions.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of economic concepts and applications emphasizing economic theoretical perspectives.
- Demonstrate knowledge of alternative forms of market structure and their resulting social impact.
- Demonstrate knowledge of the nature of the U.S. banking system and how the Federal Reserve System implements monetary policy.
- Demonstrate abilities to utilize investment science and risk management to optimize investment decision making processes.
- Demonstrate an ability to use the language of economics to form reasoned judgments about contemporary issues.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER		CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____	ECON 102 Principles of Microeconomics	3	_____
LITERATURE: ENG 223 or above	3	_____	ECON 103 Principles of Macroeconomics	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____	ECON 261 Principles of Statistics I	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, PHIL	6	_____	International Languages (Two courses in the same language)	8	_____
ANALYTICAL THINKING: PHIL 102	3	_____	FOR GENERAL ECONOMICS:		
MATHEMATICS: MATH 124	3	_____	ECON 262 Principles of Statistics II	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab) AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____	ECON 274 Investment Economics	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	ECON 295 Special Topics in Economics	3	_____
			FOR APPLIED FINANCIAL ECONOMICS:		
			ECON 274 Investment Economics	3	_____
			ECON 275 Risk Management Economics	3	_____
			ECON 276 Internship in Financial Economics	3	_____

ASSOCIATE OF ARTS

ECONGE-AA **61** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

This degree is designed to provide for the first two years of college preparation for students preparing to become elementary education teachers and/or who plan to become a paraprofessional (Instructional Aid).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Recognize the dimensions of multicultural education, and demonstrate knowledge of the appropriate pedagogical practices for teaching diverse students.
- Demonstrate use of computers, programs and software, the internet and technological tools for the integration of technology across the school curriculum.
- Explain the major theoretical perspective of education psychology and apply the concepts and methods of psychology to teaching, learning, and schooling.
- Explain the variety of conventional and informal appraisal techniques for evaluation of the learners' progression and performance, and provides various modifications within the instruction and learning strategies.
- Explain the historical, legal, and philosophical foundations, settings, problems, complexities, and issues related to contemporary elementary education.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (40 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101, HIST 217	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 123 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (One course must be taken from each category listed below.) LIFE SCIENCE: BIOL 101 and Lab EARTH SCIENCE: GEOG 103 and 104 (Lab) PHYSICAL SCIENCE: CHEM 105 and 106 (Lab)	12	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (22 Credits):

	CR	SEMESTER
EDU 201 Introduction to Elementary Education	3	_____
EDU 203 Introduction to Special Education	3	_____
EDU 210 Nevada School Law	2	_____
EDU 214 Preparing Teachers to Use Technology	3	_____
EDU 220 Principles of Educational Psychology	4	_____
EDU 280 Valuing Cultural Diversity	3	_____
EDU 299 Educational Portfolio	1	_____
MATH 122 Number Concepts for Elementary School Teachers	3	_____

ASSOCIATE OF ARTS

ELEM-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

This degree prepares students for career leadership positions in the area of Emergency Management and Homeland Security. Students will learn the basic tenets of emergency management mitigation, preparedness, response and recovery. Students will also learn the concepts of Homeland Security including intelligence analysis and terrorism response. The purpose of the Emergency Management-Homeland Security degree is to assist private businesses and governmental agencies with command and control operations and support of minor and major disasters.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate basic knowledge of all the tenets of emergency management including mitigation, recovery, preparedness and response.
- Demonstrate knowledge of interagency and community-wide participation in planning, coordinating and management functions designed to improve emergency management capabilities.
- Demonstrate understanding of emergency management theories and concepts.
- Demonstrate understanding of Homeland Security theories and concepts.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (32 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
CRJ 108 Introduction to Homeland Security	3	_____
or		
EMA 101 Principles of Emergency Management		
CRJ 160 Business Continuity and Resilience	3	_____
EMA 102 Disaster Mitigation and Preparedness	3	_____
EMA 120 Emergency Operations Centers	3	_____
EMA 140 Disaster Response and Recovery	3	_____
Plus 15 credits from the following:		
CRJ 104 Introduction to Administration of Justice	3	_____
CRJ 108 Introduction to Homeland Security	3	_____
CRJ 145 Transportation and Border Security	3	_____
CRJ 261 Intelligence Analysis and Security Management	3	_____
CRJ 290 Internship in Criminal Justice	3	_____
EMA 101 Principles of Emergency Management	3	_____
EMA 130 Role and Scope of the Public Information Officer	3	_____
EMA 220 Emergency Simulations and Exercises	3	_____
EMA 230 Incident Command System (ICS) and National Incident Management System (NIMS)	3	_____
EMA 250 Terrorism Response Planning	3	_____

ASSOCIATE OF ARTS

EMHSA-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts Degree with an English Emphasis helps students develop and apply critical thinking, analytical writing, and communication skills. Students who complete these degree requirements will be prepared to transfer to a four-year institution.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate critical thinking, reading, and writing skills in the analysis of a variety of academic texts by authors of diverse cultural backgrounds.
- Identify purpose and audience within the rhetorical context.
- Use the steps of the writing process (using invention strategies, organizing, writing, and revising) to produce coherent, well-developed essays with clear thesis statements topic sentences and effective transitional expressions.
- Apply the conventions of standard English (grammar, mechanics, and usage) in written assignments.
- Develop research, synthesis, and documentation skills to prepare papers with MLA-style citations.
- Incorporate computer technology (type, spell check, cut/paste, save, print, etc.) into the writing process and apply the skills of revision, editing, and proofreading in written assignments.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (41 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
COMMUNICATIONS COM 101	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (20 Credits):

	CR	SEMESTER
International Languages 111 or above (courses must be in a single language)	8	_____
ENG 231 or above	3	_____
ENG 298 Writing About Literature	3	_____
Plus 6 credits from the following:		
ENG 235 Survey of English Literature I	3	_____
ENG 236 Survey of English Literature II	3	_____
ENG 241 Survey of American Literature I	3	_____
ENG 242 Survey of American Literature II	3	_____

ENG-AA **61**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Global Studies program is predicated on the notion that solutions to local, national, and international issues are found not within the confines of a particular field, but at the boundaries and within the union of disciplines. This implies that the program is interdisciplinary. Gaining an understanding of global social, economic, political, historical systems which are anchored in the differing philosophical and religious traditions will help the student appreciate the commonality of all human aspirations irrespective of location. The appreciation of diversity of human cultures and traditions is the core value which enables program graduates to work and succeed in our global Society.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Through oral and/or written arguments present logically and internally consistent arguments from a variety of sides of a contemporary global issue or event.
- Analyze, reformulate issues, and proffer solutions using the art of compassionate critical thinking.
- Through oral and/or written argument demonstrate an understanding of the interconnectedness of global events.
- Through oral and/or written arguments demonstrate an appreciation that people the world over face many of the same global issues despite their diverse values and traditions.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER		CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6	_____	ANTH 201 People and Culture of the World	3	_____
LITERATURE: ENG 223 or above	3	_____	GEOG 106 World Geography	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____	HIST 209 World History II	3	_____
HUMANITIES: COM 101	3	_____	PHIL 207 Social and Political Philosophy	3	_____
SOCIAL SCIENCES: ECON 103, WMST 113	3	_____	or		
ANALYTICAL THINKING: PHIL 102	3	_____	PHIL 210 World Religions		
MATHEMATICS: MATH 120, 124, 132 or above	3	_____	PSC 231 World Politics	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV 101, GEOG 103, 104, 117	7	_____	SOC 205 Ethnic Groups in Contemporary Societies	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	International Languages: (Two courses in the same language)	6-8	_____
			Plus 3 credits from the following:		
			CAPSTONE COURSE IN GLOBAL STUDIES: In consultation with Department Chair		
			ECON 295 Special Topics in Economics	1-3	_____
			HIST 295 Topical Issues in History	1-3	_____
			PHIL 295 Topical Issues in Philosophy	1-3	_____
			PSC 295 Topical Issues in Political Science	1-3	_____
			WMST 295 Special Topics	1-3	_____

ASSOCIATE OF ARTS

GLOB-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts Degree with History emphasis builds a foundation of knowledge as preparation for further academic work in history or related fields. The history faculty has also designed the program to expose students to various historical interpretations and the interplay of world, national, state, and local events. Students pursuing the degree for its own sake will explore the social, political, economic, constitutional, and cultural trends that have shaped the world in which we live.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the contours of history as a varied field of study encompassing social, political, economic, constitutional, and cultural history.
- Demonstrate an understanding of history in general, and the interplay of world, national, and/or local events in the shaping of the world in which we live, and a better appreciation of the student's role in society.
- Demonstrate appropriate oral and written communications skills.
- Demonstrate critical thinking skills.
- Demonstrate abilities to do research and find information on historical and current events.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON 103, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101	4	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101, International Languages 111 or above, PHIL	3	_____
HIST 101 U.S. History I	3	_____
HIST 102 U.S. History II	3	_____
HIST 105 European Civilization to 1648 or HIST 208 World History I	3	_____
HIST 106 European Civilization Since 1648 or HIST 209 World History II	3	_____
HIST 217 Nevada History	3	_____
HIST 251 Historical Investigation	3	_____
Plus 3 credits from the following: HIST	3	_____

HIST-AA **62**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts (AA) degree with a Hospitality Management emphasis is specifically designed for the student who intends to transfer to the William F. Harrah College of Administration at UNLV. This AA degree is fully articulated with UNLV and the hotel college.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate proficiency in hotel operations in the areas of Front Office and Housekeeping.
- Demonstrate knowledge of the nature and scope of the hospitality industry.
- Demonstrate proficiency in financial accounting.
- Understand the various service delivery systems used in the hospitality industry.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and HIST, International Languages 111 or above, PHIL	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
HMD 101 Introduction to the Hospitality Industry	3	_____
HMD 202 Housekeeping Operations	3	_____
HMD 203 Front-Office Operations	3	_____
HMD 226 Industry Computer Applications for Hospitality and Tourism	3	_____
HMD 253 Hospitality Services Management	3	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____
HMD 295 Work Experience in Lodging Operations	1	_____
TCA 201 Hospitality Career Development	3	_____
TCA 221 Hospitality Accounting I	3	_____

ASSOCIATE OF ARTS

HMD-AA **63** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an ability to converse at an intermediate level of fluency in the language of concentration.
- Acquire a passive reading vocabulary equivalent to that necessary for success in 300-level courses.
- Demonstrate knowledge of the culture and context of the language of concentration.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
FINE ARTS: ART, DAN 101, Music, THTR	6	_____
HUMANITIES: COM 101 and HIST or PHIL	6	_____
International Languages 111 or above (courses must be in a single language)	14	_____

INTL-AA **61** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts in Journalism and Media offers students two tracks to follow; one in Convergent Journalism and one in Integrated Marketing Communication.

The practice of convergence, multimedia production and cross-ownership have shaped the reality of modern journalism. As costs rise and audiences diverse where they get their news from, a trend toward cooperation and collaboration between what were once separate media entities has taken place. Students entering the journalism field now need to know the basics of all forms of media as well as how to combine them into multimedia presentations. The convergent journalism track will give students the base of knowledge they need to be successful in this era of convergence.

Integrated Marketing Communication (IMC) is the modern practice of combining public relations, advertising, database/direct marketing, sales/event promotion and multimedia communication. The IMC track will give students the base of knowledge to be successful in this field and/or specialize in advertising or public relations positions.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the industry makeup and business and societal functions of the various mass media.
- Demonstrate an understanding of the basics of journalistic writing for the various forms of media.
- Demonstrate an understanding of the journalistic research process for the construction of media messages.
- Demonstrate an understanding of professional ethics and the laws that govern the mass media industry.
- Gain professional experience through service in internship positions.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (38 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
HUMANITIES: COM 101	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
JOUR 100 Introduction to Journalism and Media Studies	3	_____
JOUR 101 Critical Analysis of the Mass Media	3	_____
JOUR 102 News Reporting and Writing	3	_____
FOR CONVERGENT JOURNALISM:		
COM 196 Internship	3	_____
JOUR 105 News Production I	3	_____
JOUR 121 Radio Production	3	_____
JOUR 201 Television Studio Production I	3	_____
JOUR 202 Electronic Media Production I	3	_____
JOUR 220 Fundamentals of Applied Media Aesthetics	3	_____
FOR INTEGRATED MARKETING COMMUNICATION:		
COM 196 Internship	3	_____
JOUR 210 Introduction to Public Relations	3	_____
JOUR 212 Principles of Advertising	3	_____
JOUR 220 Fundamentals of Applied Media Aesthetics	3	_____
JOUR 261 Introduction to IMC	3	_____
JOUR 276 Design Principles for Advertising/Publications	3	_____

JOUR-AA **65** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS

ASSOCIATE OF ARTS DEGREE (AA)

This interdisciplinary degree offers courses on Latin America and Latinas/Latinos in the United States. It aims at providing an overview of the historical, political, cultural, financial, psychological, and artistic factors that have contributed to create the current conditions, identity, and diversity of these groups. The program prepares students for further education and careers in areas such as education, humanities, social sciences, business, counseling, and the media.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Analyze a variety of historical, political, economic, geographic, and social issues that define Latin America and/or U.S. Latina/os.
- Examine the diversity and complexity of cultures, traditions, and artistic expressions found throughout Latin America and/or the U.S. Latina/o population.
- Demonstrate language competency equal to a one-year sequence in Spanish or Portuguese at the college level.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART 267, 278, MUS 229	3	_____
HUMANITIES: COM 101 and ENG 292 or ENG 293	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (25 Credits):

	CR	SEMESTER
LAS 100 Introduction to Latina/o Studies or LAS 210 Hispanic Groups in the United States	3	_____
LAS 101 Introduction to Latin American Studies	3	_____
LAS 299 Capstone Class in Latin American Studies	1	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
Plus 6-8 credits from one of the following groups: 6-8		_____
PORT 111 First Year Portuguese I		
PORT 112 First Year Portuguese II		
PORT 211 Second Year Portuguese I		
PORT 212 Second Year Portuguese II		
or		
SPAN 111 First Year Spanish I		
SPAN 112 First Year Spanish II		
SPAN 211 Second Year Spanish I		
SPAN 212 Second Year Spanish II		
or		
SPAN 126 Introduction to Spanish for Heritage Speakers		
SPAN 226 Spanish for Heritage Speakers I		
SPAN 227 Spanish for Heritage Speakers II		
Plus 3 credits from the following:	3	_____
ENG 211 Introduction to Linguistics		
LAS 223 Spanish Caribbean Culture		
LAS 224 Mexican Culture		
Plus 9 credits from the following:	9	_____
ANTH 214 Introduction to Mesoamerican Prehistory and Archaeology		
ECON 180 The Economics and Discrimination		
HIST 227 Introduction to Latin American History and Culture I		
HIST 228 Introduction to Latin American History and Culture II		
HIST 247 History of the Mexican Nation		
PSC 205 Latino Politics and Society		
PSY 224 Introduction to Latino Psychology		
RST 260 Meso American Religions: Jaguars, Serpents, Trees		

ASSOCIATE OF ARTS

LAS-AA **60** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate fluency in the written language of music, including the ability to read and write in multiple clefs, recognize and construct various musical devices including chords, scales, intervals, rhythms, and harmonization in traditional and contemporary styles.
- Demonstrate literacy in the historical styles of music, including the ability to recognize Western musical forms and styles from the Middle Ages through the twentieth century.
- Acquire broad experience in applied music, through piano proficiency examinations, private instruction on voice or an instrument, and required ensemble participation.
- Demonstrate expanded knowledge of diversity and technology, issues which have significant impact upon the ever-changing fields of music history, theory, and performance.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
MUS 131 Introduction to Music Literature	3	_____
MUS 201E Basic Musicianship I E	3	_____
MUS 201F Basic Musicianship I F	1	_____
MUS 202E Basic Musicianship II E	3	_____
MUS 202F Basic Musicianship II F	1	_____
MUS 207E Advanced Musicianship I E	3	_____
MUS 207F Advanced Musicianship I F	1	_____
MUS 208E Advanced Musicianship II E	3	_____
MUS 208F Advanced Musicianship II F	1	_____
Private Lessons (MUSA 101-146, MUSA 201-246)	4-8	_____
Ensemble (MUSE 101 - MUSE 161)	4	_____
Piano Proficiency Exam and three juried performances in major field are required.		
Four semesters Concert Attendance required (MUS 100)		

MUS-AA **62**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

Studying Philosophy cultivates intellectual skills that are useful in all professional, personal and academic contexts. In every Philosophy course, students are shown how to analyze issues and information, and to both produce and assess arguments according to the standards of good reasoning. The serious attempt to answer philosophical questions makes up part of the core of a meaningful human life no matter what job or career one chooses.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of influential thinkers and arguments that have been advanced in the history of the Western intellectual tradition.
- Demonstrate knowledge of some of the most influential thinkers and arguments that have been advanced by contemporary thinkers.
- Demonstrate knowledge of some of the core concepts and vocabulary related to metaphysics, epistemology, ethics, aesthetics, and logic.
- Demonstrate an ability to think critically, such as the ability to identify inconsistencies in sets of claims, to identify the presumptions of claims, and to identify the implications of claims.
- Demonstrate the ability to think objectively, that is, dispassionately, about their own personal convictions whether they are religious, political, or social in nature.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
FINE ARTS: ART, DAN 101, Music, THTR	6	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above	6	_____
PHIL 101 Introduction to Philosophy	3	_____
Plus 12 credits from the following:		
PHIL		
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____

PHIL-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

The Political Science program at CSN emphasizes familiarizing students with the basis and functioning of the United States and Nevada governments. Students will also learn about the workings of international relations and the role of the United States in world politics. The study of Political Science will prepare students to pursue many different jobs and careers, especially in the fields of government service, diplomacy, law, politics, and teaching.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge and understanding of the Nevada Constitution and the Bill of Rights, and the major institutions of government, executive, legislative, judicial, and the remaining amendments to the United States Constitution.
- Provide a rationale for the study of American Politics and the historical development of this field.
- Demonstrate a greater knowledge and understanding of this democratic republic, as well as demonstrate an understanding of U.S. public policy and its relation to our lives.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (25 Credits):

	CR	SEMESTER
SOCIAL SCIENCES: ECON 103 and ANTH, CRJ 104, PSY, SOC	6	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
PSC 101 Introduction to American Politics	4	_____
PSC 200 Survey of Political Theory	3	_____
PSC 211 Introduction to Comparative Politics	3	_____
Plus 6 credits from the following:		
PSC		
_____	3	_____
_____	3	_____

PSC-AA **60**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate familiarity with empirical scientific methods and theory utilized in social science research.
- Demonstrate ability to distinguish among psychologists, psychiatrists, psychoanalysts, including theoretical orientations, methods of inquiry and techniques of intervention.
- Demonstrate ability to apply three of the six major psychological perspectives including cognitive, behaviorism, biological psychology, humanistic psychology, socio-cultural psychology and evolutionary psychology to the analysis of human behavior.
- Apply at least three psychology tools/concepts/principles towards improvement of life for themselves and/or others.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, SOC, WMST 113	9	_____
FOR GENERAL PSYCHOLOGY:		
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
PSY 101 General Psychology	3	_____
PSY 210 Introduction to Statistical Methods	4	_____
PSY 240 Introduction to Research Methods	3	_____
PSY 298 Capstone Course	1	_____
Plus 3 credits from the following:		
PSY	3	_____
FOR MENTAL HEALTH:		
MHDD 103 Psychopathology and Developmental Disabilities	1	_____
MHDD 107 Medication Fundamentals	2	_____
MHDD 109 Introduction to Therapeutic Interventions	2	_____
MHDD 127 Positive Behavior Supports or MHDD 154 Advanced Therapeutic Interventions	2	_____
PSY 101 General Psychology	3	_____
PSY 210 Introduction to Statistical Methods	4	_____
PSY 241 Introduction to Abnormal Psychology	3	_____

ASSOCIATE OF ARTS

PSY-AA **61** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

This degree is designed to provide for the first two years of college preparation for students preparing to become secondary education teachers and/or who plan to become a paraprofessional (Instructional Aid).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Recognize the dimensions of multicultural education, and demonstrate knowledge of the appropriate pedagogical practices for teaching diverse students.
- Demonstrate use of computers, programs and software, the internet and technological tools for the integration of technology across the school curriculum.
- Explain the major theoretical perspective of educational psychology and apply the concepts and methods of psychology to teaching, learning and schooling.
- Explain the variety of conventional and informal appraisal techniques for evaluation of the learners' progression and performance, and provide modifications within the instructing and learning strategies.
- Explain the historical, legal and philosophical foundations, settings, problems, complexities, and issues related to contemporary secondary education.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (34 - 35 Credits):

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
MATHEMATICS: MATH 120, 123 or above	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102	4-6	_____

	CR	SEMESTER
EDU 202 Introduction to Secondary Education	3	_____
EDU 210 Nevada School Law	2	_____
EDU 214 Preparing Teachers to Use Technology	3	_____
EDU 220 Principles of Educational Psychology	4	_____
EDU 280 Valuing Cultural Diversity	3	_____
EDU 299 Education Portfolio	1	_____

SEE A COUNSELOR TO SELECT COURSES APPROPRIATE FOR THE DISTRIBUTIONS TOWARDS YOUR CAREER PATH

ELECTIVES: (12 Transferable Credits) 12

FOR A SOCIAL SCIENCE TEACHING FIELD:

ANALYTICAL THINKING: PHIL 102	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101, HIST 217	6	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM, ENV, GEOG, GEOL, PHYS	7	_____

SEE A COUNSELOR TO SELECT COURSES

SECEDSO-AA

FOR A LIFE AND PHYSICAL SCIENCE/ ANALYTICAL THINKING FIELD:

FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101, HIST 217	6	_____
SOCIAL SCIENCES: (Select one course from three different disciplines): ANTH (except 102), CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____

SECEDSC-AA

FOR A HUMANITIES / FINE ARTS TEACHING FIELD:

ANALYTICAL THINKING: PHIL 102	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM, ENV, GEOG, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Select one course from three different disciplines): ANTH (except 102), CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____

SECEDHU-AA

62
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS

ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts Degree with an Emphasis in Sociology will prepare students to apply to an undergraduate program in sociology. In addition, students who plan to pursue a career will have basic skills in critical thinking, writing, and oral communication.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an ability to express the contribution of sociology to understanding social reality at both the micro and macro level of analysis.
- Demonstrate an ability to apply the major theoretical orientations in sociology — functionalism, conflict, and symbolic interactionism — to the analysis of social structure and human behavior.
- Demonstrate knowledge of social science research methods, data interpretation, and various ethical issues related to the research process.
- Demonstrate an ability to define and illustrate the following sociological concepts: culture, social structure, social inequality, and cultural diversity.
- Apply at least three sociological tools/concepts/principles towards improvement of life for themselves and/or others.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (25 Credits):

	CR	SEMESTER
SOCIAL SCIENCES: (Six credits must be from two different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, WMST 113	6	_____
SOC 101 Principles of Sociology	3	_____
SOC 102 Contemporary Social Issues	3	_____
SOC 240 Social Science Research Methods	3	_____
SOC 275 Introduction to Marriage and the Family	3	_____
SOC 299 Capstone Course in Sociology	1	_____
Plus 3 credits from the following:		
SOC 205 Ethnic Groups in Contemporary Societies	3	_____
SOC 210 Introduction to Statistical Methods	4	_____
SOC 225 Media and Society	3	_____
SOC 261 Introduction to Social Psychology	3	_____
SOC 270 Introduction to Deviant Behavior	3	_____
SOC 276 Aging in Modern Society	3	_____
SOC 298 Selected Topics in Sociology	3	_____
Plus 3 credits from the following:		
COM 102 Introduction to Interpersonal Communication	3	_____
HIST 107 Women in American History	3	_____
HIST 280 History of American Immigration	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 201 Principles of Management	3	_____
PHIL 207 Social and Political Philosophy	3	_____

SOC-AA **60** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF ARTS DEGREE (AA)

This degree is designed to provide for the first two years of college preparation for students preparing to become special education teachers and/or who plan to become a paraprofessional (Instructional Aid).

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Recognize the dimensions of multicultural education, and demonstrate knowledge of the appropriate pedagogical practices for teaching diverse students.
- Demonstrate use of computers, programs and software, the internet and technological tools for the integration of technology across the school curriculum.
- Explain the major theoretical perspectives of educational psychology and apply the concepts and methods of psychology to teaching, learning and schooling.
- Explain the variety of conventional and informal appraisal techniques within the instructing and learning strategies.
- Explain the historical, legal, and philosophical foundations, setting, problems, complexities, and issues related to contemporary special education.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ENGLISH: ENG 100, or 101, or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101, HIST 217	6	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 123 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM, ENV, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102	4-6	_____

	CR	SEMESTER
EDU 203 Introduction to Special Education	3	_____
EDU 210 Nevada School Law	2	_____
EDU 214 Preparing Teachers to Use Technology	3	_____
EDU 220 Principles of Educational Psychology	4	_____
EDU 280 Valuing Cultural Diversity	3	_____
EDU 299 Education Portfolio	1	_____
ELECTIVES: (12 Transferable Credits)	12	_____

SEE A COUNSELOR TO SELECT COURSES

ASSOCIATE OF ARTS

ECESPEC-AA **63** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

The Associate of Arts Degree in Theatre Studies is designed for students who wish to pursue theatre careers in acting and theatre education. Courses for study include: communication, management, acting, voice, movement, criticism, research, construction techniques for theatre, electronic technology, lighting, sound and performance practical application.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Expand their vocabulary – in particular their knowledge of the terminology of the theater – through reading and research.
- Expand their knowledge and ability to communicate the social and historical relevance of the central themes and fundamental philosophies of theatrical literature from classical to contemporary.
- Be able to effectively discuss the similarities and differences of theater’s various genres.
- Improve their ability to think critically and write effectively through script analysis and discussion.
- Be effectively prepared for continued study and the completion of a four-year degree in Theater.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENG, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
DAN 132 Jazz Dance (Beginning)	1	_____
DAN 135 Beginning Modern Dance	1	_____
DAN 138 Beginning Ballet	1	_____
THTR 102 Introduction to Stage Voice	3	_____
THTR 105 Introduction to Acting I	3	_____
THTR 199 Play Structure and Analysis	3	_____
THTR 204 Theatre Technology I	3	_____
THTR 205 Introduction to Acting II	3	_____
THTR 209 Theatre Practicum	5	_____
THTR 214 Theatre Technology II	3	_____

ASSOCIATE OF ARTS

THTR-AA **61**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF ARTS DEGREE (AA)

Gender shapes human consciousness and determines the social, economic, political, and cultural organization of human society throughout history. Students who enter into women's studies will thus be exposed to the historical and contemporary issues of gender. We are committed to providing a setting for students to develop critical thinking and writing skills, the ability to analyze material, the use of abstract thinking, and oral presentations. These are skills that will serve the students well in their personal professional and social lives.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate knowledge of the contributions that women have made throughout history in all aspects of life, sources of their omission from traditional approaches to scholarship and traditional centers of power, and contemporary issues concerning gender and sexual orientation in culture and society.
- Demonstrate knowledge of feminist theories, multidisciplinary perspectives, feminist research methodologies and ethics, global and local activism, and structural and cultural analyses, especially the intersectionality of gender, race, and class.
- Demonstrate the ability to think abstractly, read critically, analyze situations, organize material, write well, and conduct oral presentations, all of which are useful skills that employers welcome.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 231, 232	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 120, 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines) ANTH, CRJ 104, ECON, PSC, PSY, SOC	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
FINE ARTS: ART, DAN, Music, THTR	6	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above	6	_____
WMST 101 Introduction to Women's Studies	3	_____
WMST 113 Gender, Race, and Class	3	_____
Plus 9 credits from the following:		
WMST 247 Philosophy and Women	3	_____
WMST 250 Introduction to Feminist Theory	3	_____
WMST 255 The American Women's Movement	3	_____
WMST 275 Introduction to Marriage and Family	3	_____
WMST 285 History of Witchcraft	3	_____
WMST 286 Goddess Traditions	3	_____
WMST 295 Special Topics	3	_____

ASSOCIATE OF ARTS

WMST-AA **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



The Associate of Business (AB) degree provides the equivalent of the first two years of a Bachelor’s degree in business related subject areas. Students who pursue this degree are primarily interested in transferring to NSC, UNLV, UNR or another baccalaureate level institution. A secondary objective may be employment upon completion of the AB.

The Associate of Business program is accredited by the Accreditation Council of Business Schools and Programs (ACBSP), located at 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, (www.acbsp.org).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge and skills required for employment in business related careers.
- Demonstrate an understanding of business operations.
- Demonstrate understanding of the theory and practice of business.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (32 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101	3	_____
ANALYTICAL THINKING: PHIL 102	3	_____
MATHEMATICS: MATH 124 or above	3	_____
LIFE AND PHYSICAL SCIENCES: (Two courses from the following, one must include a lab): AST, BIOL, CHEM 105 or above, ENV, GEOG 103, 104, 117, GEOL, PHYS	7	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
ACC 202 Managerial Accounting	3	_____
BUS 101 Introduction to Business	3	_____
COM 102 Introduction to Interpersonal Communication	3	_____
ECON 102 Principles of Microeconomics	3	_____
ECON 103 Principles of Macroeconomics	3	_____
ECON 261 Principles of Statistics I	3	_____
IS 101 Introduction to Information Systems	3	_____
MATH 132 Finite Mathematics	3	_____
MGT 201 Principles of Management	3	_____

ASSOCIATE OF BUSINESS

AB **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES:

Student Learning Outcomes depend upon the students Special Program Requirements and the outcomes will be done through the Science Department on an individual basis.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (34 Credits):

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
MATHEMATICS: (For Sciences) MATH 181 (For Health Sciences) MATH 120, 124 or above	3-4	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
SCIENCE: (Thirteen credits from the following, one must include a lab): AST, BIOL, CHEM, ENV, GEOG 103, 104, 117, GEOL, PHYS	13	_____

PLUS 13 CREDITS
See a Counselor to select 13 Credits:

SEE A COUNSELOR TO SELECT COURSES

Counselor Signature Date

Student Signature Date

ASSOCIATE
OF SCIENCE

AS **60**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of the diversity and similarity of organizational levels ranging from molecules to the community.
- Demonstrate knowledge of scientific methods and the relationships among theory, experiment, analysis of data and general knowledge.
- Articulate, in verbal and written form, knowledge of biology, biological methods, and biological issues in context.
- Demonstrate knowledge of basic laboratory safety procedures and experimentation skills.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (32 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102	6-8	_____
LITERATURE: ENG 231, 232	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
MATHEMATICS: MATH 181	4	_____
SOCIAL SCIENCES: (Six credits must be from two different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	6	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
BIOL 196 Principles of Modern Biology I	4	_____
BIOL 197 Principles of Modern Biology II	4	_____
CHEM 121 General Chemistry I	4	_____
CHEM 122 General Chemistry II	4	_____
PHYS 151 General Physics I	4	_____
PHYS 152 General Physics II	4	_____
Plus 4-6 credits from the following:		
BIOL 101 or higher*	4-6	_____

*For students transferring to UNLV:
BIOL 251H General Microbiology - Honors is highly recommended

ASSOCIATE OF SCIENCE

BIOL-AS **60** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate a knowledge of Inorganic Chemistry: Stoichiometry, Nomenclature, Acids and Bases, Gas Laws, Equilibrium, Kinetics, Thermochemistry, Electrical Chemistry and Nuclear Chemistry.
- Demonstrate a knowledge of Organic Chemistry: Stoichiometry, Nomenclature, Acids and Bases, Gas Laws, Equilibrium, Kinetics, Organic Synthesis and Mechanisms.
- Demonstrate a knowledge of Scientific Methods and the relationship of theory, experiment, data analysis and general knowledge.
- Demonstrate the ability to articulate chemical knowledge in verbal, written, and computational form.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST International Languages 111 or above, PHIL	6	_____
MATHEMATICS: MATH 181	4	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
CHEM 121 General Chemistry I	4	_____
CHEM 122 General Chemistry II	4	_____
CHEM 241 Organic Chemistry I	4	_____
CHEM 242 Organic Chemistry II	4	_____
MATH 182 Calculus II	4	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
FOR BIOCHEMISTRY:		
BIOL 196 Principles of Modern Biology I	4	_____
BIOL 197 Principles of Modern Biology II	4	_____
FOR CHEMISTRY BA:		
PHYS 151 General Physics I	4	_____
PHYS 152 General Physics II	4	_____
FOR CHEMISTRY BS:		
PHYS 180 Physics for Scientists and Engineers I	3	_____
PHYS 180L Physics for Scientists and Engineers Lab I	1	_____
PHYS 181 Physics for Scientists and Engineers II	3	_____
PHYS 181L Physics for Scientists and Engineers Lab II	1	_____
PHYS 182 Physics for Scientists and Engineers III	3	_____
PHYS 182L Physics for Scientists and Engineers III	1	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF SCIENCE DEGREE (AS)

The Dental Hygienist is the licensed prevention specialist in the dental health team, providing health education, administering local anesthesia, removing deposits and stains from teeth, exposing x-rays, and applying topical fluoride. The curriculum is demanding, requiring a high degree of individual motivation, stamina, and manual dexterity. This program of classroom and clinical instruction is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of “approval without reporting requirements.” The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611. Graduates will be eligible to take the written national Board and clinical State or Regional Boards in order to become licensed.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate treatments that include preventive and therapeutic procedures to promote and maintain oral health and assist the patient in achieving oral health goals.
- Demonstrate the ability to acquire and synthesize information in a critical, scientific, and effective manner.
- Demonstrate the ability to initiate and assume responsibility for health promotion and disease prevention activities for diverse populations.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (37 Credits):

Continued from previous column.

	CR	SEMESTER		CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114,	6-8	_____	DH 102	3	_____
HUMANITIES: COM 101, 102	3	_____	DH 104	3	_____
LITERATURE: ENG 223 or above	3	_____	DH 105	2	_____
MATHEMATICS: MATH 127, 128	3-5	_____	DH 107	2	_____
LIFE AND PHYSICAL SCIENCES: BIOL 223, 224, CHEM 121	12	_____	DH 110	2	_____
SOCIAL SCIENCES: SOC 101, PSY 101	6	_____	DH 112	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	DH 115	3	_____
THIS PROGRAM IS INTENDED FOR TRANSFER ONLY TO THE CSN BS IN DENTAL HYGIENE OR TO BE A STAND ALONE DEGREE.			DH 117	2	_____
SPECIAL PROGRAM REQUIREMENTS (51 Credits):			DH 119	2	_____
	CR	SEMESTER	DH 122	2	_____
CLS 261 Clinical Microbiology for Dental Hygienists	2	_____	DH 123	2	_____
CLS 262 Applied Clinical Microbiology for Dental Hygienists	1	_____	DH 202	2	_____
			DH 203	2	_____
			DH 208	2	_____
			DH 209	3	_____
			DH 210	4	_____
			DH 211	2	_____
			DH 212	2	_____
			DH 216	1	_____
			DH 217	1	_____
			DH 219	1	_____
			DH 220	4	_____

Continued in next column.

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

DH-AS **88** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF SCIENCE

ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Describe and apply the Scientific Method.
- Analyze and interpret astronomy articles from popular publications.
- Describe how the universe works through the application of fundamental physical laws.
- Describe modern theories about the origin and evolution of the solar system or universe.
- Apply mathematical principles to an understanding of the nature of the physical universe.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (36 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
MATHEMATICS: MATH 126 and MATH 127 or MATH 128	5-6	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
AST 103 Introductory Astronomy: The Solar System	3	_____
or		
AST 104 Introductory Astronomy: Stars and Galaxies		
AST 105 Introductory Astronomy Laboratory	1	_____
CHEM 121 General Chemistry I	4	_____
ENV 101 Introduction to Environmental Science	3	_____
GEOG 103 Physical Geography	3	_____
GEOLOG 101 Geology: Exploring Planet Earth	4	_____
GEOLOG 102 Earth and Life Through Time	4	_____
PHYS 151 General Physics I	4	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Analyze information about environmental systems, distinguish between hazardous and non-hazardous wastes, explain and describe Principles of Ecology and Evolution.
- Apply the Scientific Method to problems and solve the problems using critical thinking techniques.
- Utilize properties of chemicals and chemical reactions and the Laws of Thermodynamics.
- Classify processes of biological, chemical, physical and geological nomenclature.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, PHIL	6	_____
MATHEMATICS: MATH 126 and MATH 127 or MATH 128 (for ENV BA) MATH 181 (for ENV BS)	4-6	_____
SOCIAL SCIENCES: ECON 102 and (Six credits from two different disciplines): ANTH, CRJ 104, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (25 Credits):

	CR	SEMESTER
BIOL 196 Principles of Modern Biology I	4	_____
ENV 101 Introduction to Environmental Science	3	_____
ENV 220 Introduction to Ecological Principles	3	_____
GEOG 103 Physical Geography	3	_____
GEOL 101 Geology: Exploring Planet Earth	4	_____
Plus 8 credits from the following:		
CHEM 121 General Chemistry I	4	_____
MATH 182 Calculus II	4	_____
PHYS 151 General Physics I	4	_____
PHYS 152 General Physics II	4	_____

ASSOCIATE OF SCIENCE

ENV-AS **60** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Describe and apply the Scientific Method.
- Identify common rocks and minerals with the aid of classification tables and describe general processes involved with their formation.
- Describe and apply physical and chemical properties for the development of landforms using erosion, transportation and deposition as fundamental earth processes.
- Describe and apply physical and chemical properties as related to the Modern Theory of Plate Tectonics, including structural and seismic processes.
- Read and interpret topographic and geologic maps.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
MATHEMATICS: MATH 181	4	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
CHEM 121 General Chemistry I	4	_____
CHEM 122 General Chemistry II	4	_____
GEOL 101 Geology: Exploring Planet Earth	4	_____
GEOL 102 Earth and Life Through Time	4	_____
MATH 182 Calculus II	4	_____
and		
PHYS 151 General Physics I	4	_____
PHYS 152 General Physics II	4	_____
or		
PHYS 180 Physics for Scientists and Engineers I	3	_____
PHYS 181 Physics for Scientists and Engineers II	3	_____

ASSOCIATE
OF SCIENCE

GEOL-AS **61**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree with an emphasis in Mathematics offers coursework intended to prepare students to transfer to a four year institution to earn a baccalaureate degree in Mathematics, Mathematics Education or other degrees requiring strong mathematical skills. The degree will also enhance career opportunities in fields that require critical thinking.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Apply problem solving skills.
- Analyze and interpret data problems associated with employment.
- Utilize logical thinking skills to resolve issues that arise in the workplace.
- Analyze and evaluate problem solving skills.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, or PHIL	6	_____
MATHEMATICS: MATH 181	4	_____
SOCIAL SCIENCES: (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (31 Credits):

	CR	SEMESTER
MATH 132 Finite Mathematics	3	_____
MATH 182 Calculus II	4	_____
MATH 251 Discrete Mathematics I	3	_____
MATH 253 Matrix Algebra	3	_____
MATH 283 Calculus III	4	_____
MATH 285 Differential Equations	3	_____
STAT 152 Introduction to Statistics	3	_____
Select 8 credits from the following:		
BIOL 189 Fundamentals of Life Science	4	_____
BIOL 196 Principles of Modern Biology I	4	_____
BIOL 197 Principles of Modern Biology II	4	_____
CHEM 121 General Chemistry I	4	_____
CHEM 122 General Chemistry II	4	_____
PHYS 180 Physics for Scientists and Engineers I	3	_____
and		
PHYS 180L Physics for Scientists and Engineers Lab I	1	_____
PHYS 181 Physics for Scientists and Engineers II	3	_____
and		
PHYS 181L Physics for Scientists and Engineers Lab II	1	_____
PHYS 182 Physics for Scientists and Engineers III	3	_____
and		
PHYS 182L Physics for Scientists and Engineers Lab III	1	_____

ASSOCIATE OF SCIENCE

MATH-AS **66**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF SCIENCE DEGREE (AS)

This degree is designed for students seeking transfer for a BS in Horticulture. It combines the expertise and resources of the Associate Degree program at CSN with the plant and horticulture courses and faculty at the universities. Individuals with a BS degree in Horticulture are in high demand for production, supervisory and management positions.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of plant propagation techniques and the best management practices of plant propagation.
- Create plant selection criteria based upon the suitability of the ornamental plant to the environment, landscape site, and landscape use.
- Demonstrate knowledge of soils and plant nutrition as related best management practices for the propagation, installation and maintenance of cultivated plants.
- Demonstrate knowledge of the basic plant sciences including anatomy, physiology, and taxonomy.
- Demonstrate knowledge of the mathematics, English, science, and humanities required for an AS degree and admission to a baccalaureate program.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (31 Credits):

SPECIAL PROGRAM REQUIREMENTS (34 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 223 or above, HIST, International Languages 111 or above, PHIL	6	_____
MATHEMATICS: MATH 127 or above	3	_____
SOCIAL SCIENCES: ECON 102 and 3 credits from any of these disciplines: ANTH, CRJ 104, PSC, PSY, SOC, WMST 113	6	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
BIOL 196 Principles of Modern Biology I	4	_____
BIOL 202 General Botany	4	_____
CHEM 121 General Chemistry I	4	_____
CHEM 122 General Chemistry II	4	_____
LAND 257 Ornamental Plant Materials	3	_____
or LAND 258 Xeric Plant Materials		
OH 101 Introduction to Plant Propagation	3	_____
OH 105 Soils and Plant Nutrition	3	_____
Select 9 credits from the following:		
OH 104 Floriculture	3	_____
OH 111 Turfgrass Fundamentals	3	_____
or OH 112 Turfgrass Management		
OH 203 Introduction to Plant Pathology and Landscape Pests	3	_____
OH 209 Arboriculture	4	_____
OH 223 Integrated Pest Management	3	_____

ASSOCIATE OF SCIENCE

OHENV-AS **65** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Formulate and apply the principles and equations of rigid body equilibrium in the solution of equilibrium problems involving particles and rigid bodies.
- Develop and draw free body diagrams in the solutions of particle and rigid body equilibrium problems.
- Develop and apply “kinematic” principles in the solutions of particle and rigid body dynamic problems.
- Develop and apply “kinetic” principles in the solutions of particle and rigid body dynamic problems.
- Ability to formulate, draw and apply free body diagrams and kinetic diagrams in the solutions of particle and rigid body dynamic problems.

Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
ENGLISH: ENG 100 or 101 or 113 and 102 or 114	6-8	_____
LITERATURE: ENG 223 or above	3	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: COM 101 and ENG 235 or above, HIST, International Languages 111 or above, PHIL, WMST 113	6	_____
MATHEMATICS: MATH 181	4	_____
SOCIAL SCIENCES: (Nine credits must be from two different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
CEE 241 Statics	3	_____
CHEM 121 General Chemistry I	4	_____
MATH 182 Calculus II	4	_____
ME 242 Dynamics	3	_____
PHYS 180 Physics for Scientists and Engineers I	3	_____
PHYS 180L Physics for Scientists and Engineers Lab I	1	_____
FOR CIVIL ENGINEERING:		
GEOL 101 Geology: Exploring Planet Earth	4	_____
PHYS 181 Physics for Scientists and Engineers II	3	_____
PHYS 181L Physics for Scientists and Engineers Lab II	1	_____
FOR MECHANICAL ENGINEERING:		
MATH 283 Calculus III	4	_____
PHYS 182 Physics for Scientists and Engineers III	3	_____
PHYS 182L Physics for Scientists and Engineers Lab III	1	_____

ASSOCIATE OF SCIENCE

ENGINEE-AS **61** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



The Associate of General Studies degree is designed for students who, while seeking advanced learning in a broad variety of disciplines, do not wish to concentrate in any one particular field of study. The numerous elective credits in the degree provide students with an excellent opportunity to pursue learning in traditional academic disciplines or occupational programs. While some courses may transfer, the AGS is not intended as a transfer degree within the NSHE.

STUDENTS WISHING TO COMPLETE THIS DEGREE MUST CONSULT A COUNSELOR IN ORDER TO PLAN A COURSE OF STUDY.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Produce oral and written communication befitting the context and audience.
- Utilize mathematical, symbolic, logical, graphical, geometric, or statistical analysis for the interpretation and solution of problems.
- Identify and analyze a problem, generate and consider potential solutions, and defend the best solution based on evidence and reasoning.
- Synthesize information from a variety of academic disciplines.
- Examine the variations in human culture and incorporate perspectives of diversity.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101 or 113 and one of the following: BUS 107, 108, COM 101, 102, 215, ENG 102, 107, 114, 205, JOUR 102, THTR 105	6-8	_____
FINE ARTS: ART, DAN 101, Music, THTR	3	_____
HUMANITIES: AM, COM, ENG 223 or above, HIST, International Languages, PHIL, RST	3	_____
MATHEMATICS: MATH 104B or above	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 116, 117, GEOL, PHYS	3	_____
SOCIAL SCIENCES: ANTH, CRJ 104, ECON, GEOG 106, 109, PSC, PSY, SOC, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

ELECTIVES (List Below):	CR	SEMESTER
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

SEE A COUNSELOR TO SELECT COURSES

Counselor Signature Date

Student Signature Date

AGS **60**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF
GENERAL STUDIES

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Accounting provides a comprehensive background in the principles, procedures and theories of organizing and maintaining business and financial transactions.

This program is accredited by the Accreditation Council of Business Schools and Programs (ACBSP), located at 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, (www.acbsp.org).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge and skills required for employment in the accounting field.
- Demonstrate knowledge of the principles, procedures and theories of organizing and maintaining business and financial transactions.
- Demonstrate proficiency with the computerized accounting systems and software to process financial information.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 124 or above	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
ACC 105 Taxation for Individuals	3	_____
ACC 201 Financial Accounting	3	_____
ACC 202 Managerial Accounting	3	_____
ACC 203 Intermediate Accounting I	3	_____
ACC 204 Intermediate Accounting II	3	_____
ACC 205 Cost Accounting	3	_____
ACC 220 Microcomputer Accounting Systems	3	_____
BUS 273 Business Law I	3	_____
IS 101 Introduction to Information Systems	3	_____
Plus 9 credits from the following:		
ACC 210B IRS Computerized Tax Preparation Program	3	_____
ACC 222B Accounting Using Spreadsheets	3	_____
ACC 223B Introduction to QuickBooks	3	_____
BUS 101 Introduction to Business	3	_____
BUS 109B Business Mathematics	3	_____
ECON 102 Principles of Microeconomics	3	_____
ECON 103 Principles of Macroeconomics	3	_____
ECON 261 Principles of Statistics I	3	_____
MGT 201 Principles of Management	3	_____
MKT 210 Marketing Principles	3	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ACC-AAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program prepares students to install, maintain, service, troubleshoot and repair residential heating and cooling systems. Additionally, the program includes commercial refrigeration courses enabling students to learn how to maintain, troubleshoot and repair walk-in freezers, ice machines and other related machinery. Instruction includes classroom, laboratory and hands-on work in the field. Along with core classes, academic skills emphasizing related math, science and human relations components are stressed to help students prepare to meet challenges commonly found in the workplace.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Perform the basic tasks of a Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technician in a residential and light commercial environment.
- Read and interpret electrical schematics; troubleshoot and diagnose mechanical and electrical problems using methods and equipment appropriate to this industry.
- Utilize currently accepted EPA rules, techniques, and regulations in the performance of HVAC/R duties; observe proper safety practices when working with high- and low-voltage electricity, and when working with refrigerants under pressure.
- Demonstrate knowledge of mathematics, communication skills, and other core degree requirements adequate to assume supervisory or entry-level management positions in HVAC/R industry.

GENERAL EDUCATION REQUIREMENTS (22 Credits):

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B, 116 or above (except MATH 122, 123)	3	_____
SCIENCE: AST 103, CHEM 105, ENV 101, MT 102, PHYS 110	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
AC 102B Introduction to HVAC Electrical Theory and Application	5	_____
AC 103B Introduction to HVAC Mechanical Theory and Application	5	_____
AC 106B Residential Gas Heating	5	_____
AC 110B Intermediate HVAC Electrical Theory and Application	5	_____
AC 111B Heat Pumps	5	_____
AC 115B Troubleshooting	5	_____
AC 200B Commercial Refrigeration I	5	_____
Plus 6 credits from the following:		
AC 114B Heat Load and Duct Design	5	_____
AC 116B Copper Fundamentals	1	_____
AC 119B Professionals in Customer Service	1.5	_____
AC 120B Air Conditioning Duct Work Fabrication	3	_____
AC 202B Commercial Refrigeration II	5	_____
AC 210B Boiler Operation and Maintenance	3	_____
AC 221B Gas Heat Pump Technology I	5	_____
CADD 100 Introduction to Computer Aided Drafting	3	_____
CONS 120B Printreading and Specifications	3	_____
IS 101 Introduction to Information Systems	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

AC-AAS **63** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree program builds the skills required to produce professional and quality interior architectural designs. The core curriculum is a sequence of lecture/lab courses that stress the design theory and application, color, space planning, interior materials, furniture specification, CADD, business practices and field experience.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate competency in the foundations and theory of interior design.
- Demonstrate competency in drafting, CADD and presentation skills.
- Demonstrate competency in design development skills in the selection and specification of interior furnishings, finishes, materials, textiles and decorative elements.
- Demonstrate knowledge in design process including research, programming, concept development, specifications and business practices.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ANTH 101, 201, PSY 101, 102, 207, 208, SOC 101	3	_____
MATHEMATICS: MATH 116 or above (except MATH 122, 123)	3	_____
SCIENCE: BIOL 101, CHEM 105, ENV 101, PHYS 110	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: ART 107	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (42 Credits):

	CR	SEMESTER
AAD 180 Fundamentals of Design I	3	_____
AAD 182 Fundamentals of Design II	3	_____
AAE 100 Introduction to Architecture	3	_____
ADT 100B Introduction to Drafting Theory	3	_____
ADT 201B Introduction to Building Information Modeling	3	_____
CADD 105 Intermediate Computer Aided Drafting	3	_____
CONS 120B Printreading and Specifications	3	_____
INTD 105B History of Furniture and Interiors I	3	_____
INTD 106B History of Furniture and Interiors II	3	_____
INTD 216 Textiles	3	_____
INTD 218B Methods and Materials	3	_____
INTD 255B Interior Design Studio I	3	_____
INTD 257B Interior Design Studio II	3	_____
INTD 258B Business Practices	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ADTDSG-AAS

67
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree program builds the skills required to produce professional and quality residential architectural designs. The core curriculum is a sequence of lecture/lab courses that stress the theory and method of detailing, drafting and designing residential buildings. Graduates can seek employment at residential design and architectural firms. Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize design standards and skills specific to the architecture profession.
- Comprehend and utilize building codes appropriately in the design of residential buildings.
- Comprehend building systems, to include: structural, plumbing, electrical, mechanical and utilize their role in the production of architectural working drawings and construction documents.
- Organize and produce a set of architectural working drawings for a residential building.
- Comprehend and utilize design principles, to include: site context, user needs, climate conditions and other environmental conditions through assigned residential design projects.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

SPECIAL PROGRAM REQUIREMENTS (44 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____	AAD 180	Fundamentals of Design I	3 _____
ENGLISH ENG 100, 101, 107, 113	3-5	_____	AAD 182	Fundamentals of Design II	3 _____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	AAE 100	Introduction to Architecture	3 _____
MATHEMATICS: MATH 126 and 127 or MATH 128	5-6	_____	ADT 100B	Introduction to Drafting Theory	3 _____
SCIENCE: GEOG 103, PHYS 151	7	_____	ADT 103B	Urban Planning	3 _____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: ART 101	3	_____	ADT 107B	Architectural Residential Codes	2 _____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	ADT 114B	History of the Built Environment	3 _____
			ADT 201B	Introduction to Building Information Modeling	3 _____
			ADT 205B	Architectural Environmental Control Systems	3 _____
			ADT 210B	Residential Structural Technology	3 _____
			ADT 280B	Architectural Residential Design	3 _____
			ADT 282B	Architectural Residential Design II	3 _____
			CADD 105	Intermediate Computer Aided Drafting	3 _____
			CONS 120B	Printreading and Specifications	3 _____
			SCT 105B	Sustainable Construction Materials	3 _____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ADTRES-AAS

72
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree program, one of the largest of its kind in the west, prepares students for lucrative careers as automotive technicians, as well as related automotive occupations. Master Accredited by ASE/NATEF, instruction is provided on state-of-the-art equipment in both classrooms and labs. ASE Master Certified technicians provide all instruction, with the focus on understanding automotive systems operation and how to effectively and efficiently diagnose and service these systems. Additionally, emphasis is placed on preparing students to personally pass ASE certification exams. Integral to the program is an internship component that provides students with current industry experience. Partnerships exist with many major automobile, tool and equipment manufacturers. Along with special program courses, academic skills emphasizing related math, science, communication and human relations components are stressed to prepare students to succeed in the workforce.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate diagnostic and repair routines as related to the eight major systems of the automobile.
- Successfully pass the eight ASE certification examination.
- Demonstrate knowledge in the use of both printed and electronic repair information and service literature.
- Demonstrate use of both and PC based computerized diagnostic equipment.
- Demonstrate understanding of diagnostic and repair literature.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 116 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (50 Credits):

	CR	SEMESTER
AUTO 115B Automotive Electricity and Electronics I	4	_____
AUTO 117B Advanced Automotive Electronics	4	_____
AUTO 136B Engine Repair	5	_____
AUTO 145B Automotive Brakes	4	_____
AUTO 155B Steering and Suspension	4	_____
AUTO 165B Automotive Heating and Air Conditioning	4	_____
AUTO 205B Manual Drive Train and Axles	4	_____
AUTO 216B Automatic Transmissions	5	_____
AUTO 225B Engine Performance I/ Fuel and Ignition	4	_____
AUTO 227B Engine Performance II/ Emission Control	4	_____
AUTO 235B Engine Performance III/ Diagnostics	4	_____
AUTO 245B Power Train Removal and Replacement	4	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

AUTO-AAS

75
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Aviation Technology degree program is designed specifically for students who have a desire to work in aviation-related careers. Thorough coverage of the Federal Aviation Regulations will apply to all aspects of study. The degree will provide the application of concepts pertaining to airport and aircraft operations for domestic and international flights. Students may select from Track options that place an emphasis on either Professional Pilot or Flight Operations areas of study. The degree will prepare students to enter the employment market as Professional Pilots, Flight Crew Members, OR, Flight Operations Specialist, Crew Scheduler, Flight Follower, Customer Service Representative, Aircraft Servicing Personnel. Students must meet all eligibility requirements determined by the Federal Aviation Administration and the Transportation Security Administration.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

Professional Pilot:

- Pass the Federal Aviation Administration Private Pilot Knowledge and Practical Exams for Airplane Single Engine Land.
- Pass the Federal Aviation Administration Instrument Rating Knowledge and Practical Flight Exams for Airplane Single Engine Land.
- Pass the Federal Aviation Administration Commercial Pilot Knowledge and Practical Flight Exams for Airplane Single Engine Land.

Flight Operations:

- Demonstrate working knowledge of the Federal Aviation Regulations pertaining to airport operating procedures, crew rest requirements, general operating flight rules, scheduled and non-scheduled flight operations.
- Demonstrate a working knowledge of the principles of flight pertaining to normal and transport category aircraft.
- Demonstrate understanding of management concepts particular to airport and airline operating environments.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131, 132	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
AV 100B Aviation Orientation	3	_____
AV 110B Private Pilot Ground School	4	_____
AV 112B Human Factors and Safety	3	_____
AV 115B Aviation Meteorology	3	_____
AV 220B Air Transportation	3	_____
FOR PROFESSIONAL PILOT:		
AV 111B Private Pilot Certification Lab	3	_____
AV 210B Instrument Ground School	4	_____
AV 212B Instrument Certification Lab	3	_____
AV 214B Aerodynamics	3	_____
AV 240B Advanced Aircraft Systems	3	_____
AV 250B Commercial Pilot Ground School	4	_____
AV 251B Commercial Pilot Certification Lab	3	_____
FOR FLIGHT OPERATIONS:		
ACC 201 Financial Accounting	3	_____
AV 105B Airport Operations	3	_____
AV 107B Airline Operations	3	_____
AV 114B Advanced Navigation	3	_____
AV 215B Crew Resource Management	3	_____
IS 101 Management Information Systems	3	_____
MGT 201 Principles of Management	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

AV-AAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Business Management provides the individual with the understanding and knowledge necessary for managing people and functions. Managerial and motivational theories, global management, decision making and organizational designs are stressed.

This program is accredited by the Accreditation Council of Business Schools and Programs (ACBSP), located at 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, (www.acbsp.org).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain current general business and management theories.
- Apply general business and management theories to real-life professional situations.
- Demonstrate proficiency for entry-level business or management positions within profit and nonprofit organizations.
- Demonstrate leadership using the latest techniques in coaching and participatory styles of management.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
BUS 101 Introduction to Business	3	_____
BUS 108 Business Letters and Reports	3	_____
BUS 272 Legal Environment	3	_____
or BUS 273 Business Law I		
ECON 103 Principles of Macroeconomics	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 103 Introduction to Small Business Management	3	_____
MGT 201 Principles of Management	3	_____
MGT 212 Leadership and Human Relations	3	_____
or MGT 235 Organizational Behavior		
MGT 283 Introduction to Human Resources Management	3	_____
MGT 284B Introduction to International Management	3	_____
MKT 210 Marketing Principles	3	_____
or MKT 261 Introduction to Public Relations		
Plus 3 credits from the following:		
BUS 106B Business English	3	_____
BUS 107 Business Speech Communication	3	_____
BUS 271 Introduction to Employment Law	3	_____
BUS 274 Business Law II	3	_____
MGT 120B Introduction to Public Sector Administration	3	_____
MGT 291B Women in Management	3	_____
MGT 294B Seminar in Management	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. BUSMGT-AAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree is designed to provide students with the understanding and knowledge necessary for managing people and functions. Students will learn key concepts and techniques of personnel supervision in private and public sector administration through various interactive and team-building activities.

This program is accredited by the Accreditation Council of Business Schools and Programs (ACBSP), located at 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, (www.acbsp.org).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain current general business and human resources management theories.
- Apply general business and human resources management theories to real-life professional situations.
- Demonstrate proficiency for entry-level human resource management positions with profit and nonprofit organizations.
- Demonstrate the latest techniques in recruitment, selection, training, and other human resource practices.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
BUS 101 Introduction to Business	3	_____
BUS 108 Business Letters and Reports	3	_____
BUS 272 Legal Environment or BUS 273 Business Law I	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 103 Introduction to Small Business Management	3	_____
MGT 201 Principles of Management	3	_____
MGT 212 Leadership and Human Relations	3	_____
MGT 235 Organizational Behavior	3	_____
MGT 283 Introduction to Human Resources Management	3	_____
MGT 286B Personnel Interviewing	3	_____
MKT 210 Marketing Principles	3	_____
Plus 3 credits from the following:		
ACC 201 Financial Accounting	3	_____
BUS 106B Business English	3	_____
BUS 107 Business Speech Communication	3	_____
BUS 271 Introduction to Employment Law	3	_____
BUS 274 Business Law II	3	_____
ECON 103 Principles of Macroeconomics	3	_____
MGT 120B Introduction to Public Sector Administration	3	_____
MGT 291B Women in Management	3	_____
MGT 294B Seminar in Management	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

HSMGT-AAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program is designed to provide students with the understanding and knowledge necessary for managing people and functions. An examination of management resources across national boundaries, the international marketplace and legal aspects of international business are emphasized. Students will learn management concepts through interactive exercises and case studies.

This program is accredited by the Accreditation Council of Business Schools and Programs (ACBSP), located at 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, (www.acbsp.org).

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Explain current general business and global management theories and how they apply to international business settings.
- Apply general business and global management strategies to real-life professional situations.
- Demonstrate proficiency for entry-level management positions within a global or multi-national organization.
- Demonstrate the latest techniques and trends in international business and management practices.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

Continued from previous column.

	CR	SEMESTER
BUS 275B Fundamentals of International Business	3	_____
or		
BUS 280B Legal Aspects of International Business		
IS 101 Introduction to Information Systems	3	_____
MGT 103 Introduction to Small Business Management	3	_____
MGT 201 Principles of Management	3	_____
MGT 212 Leadership and Human Relations	3	_____
or		
MGT 235 Organizational Behavior		
MGT 283 Introduction to Human Resources Management	3	_____
MGT 284B Introduction to International Management	3	_____
MKT 210 Marketing Principles	3	_____
MKT 250 Introduction to International Marketing	3	_____

Plus 3 credits from the following:

ACC 201 Financial Accounting	3	_____
BUS 106B Business English	3	_____
BUS 107 Business Speech Communication	3	_____
BUS 271 Introduction to Employment Law	3	_____
BUS 274 Business Law II	3	_____
BUS 284B Internship in International Business	3	_____
ECON 103 Principles of Macroeconomics	3	_____
MGT 291B Women in Management	3	_____
MGT 294B Seminar in Management	3	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
BUS 101 Introduction to Business	3	_____
BUS 108 Business Letters and Reports	3	_____
BUS 272 Legal Environment	3	_____
or		
BUS 273 Business Law I		

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

INTLBUSAAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree is designed to provide students with the understanding and knowledge necessary to manage people and functions. Students will learn the techniques necessary to start and operate successful small businesses through various interactive course techniques and formats. Financial and administrative controls, marketing and legal requirements are emphasized in the program.

This program is accredited by the Accreditation Council of Business Schools and Programs (ACBSP), located at 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, (www.acbsp.org).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain current general business and management theories and how they apply to small business settings.
- Apply general business and management strategies to real-life in small business settings.
- Explain the purpose of a business proposal used to initiate start-up efforts for a prospective small business.
- Demonstrate the latest techniques and trends in small business management practices.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
BUS 101 Introduction to Business	3	_____
BUS 102B Entrepreneurship and Innovation	3	_____
BUS 108 Business Letters and Reports	3	_____
BUS 272 Legal Environment	3	_____
or		
BUS 273 Business Law I		
IS 101 Introduction to Information Systems	3	_____
MGT 103 Introduction to Small Business Management	3	_____
MGT 201 Principles of Management	3	_____
MGT 212 Leadership and Human Relations	3	_____
or		
MGT 235 Organizational Behavior		
MGT 283 Introduction to Human Resources Management	3	_____
MKT 210 Marketing Principles	3	_____
Plus 3 credits from the following:		
ACC 201 Financial Accounting	3	_____
BUS 106B Business English	3	_____
BUS 107 Business Speech Communication	3	_____
BUS 271 Introduction to Employment Law	3	_____
BUS 274 Business Law II	3	_____
ECON 103 Principles of Macroeconomics	3	_____
MGT 120B Introduction to Public Sector Administration	3	_____
MGT 291B Women in Management	3	_____
MGT 294B Seminar in Management	3	_____
Plus 6 credits from the following:		
BUS	6	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

BUSML-AAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Cardiorespiratory Sciences (CRS) is a multi-disciplined, multi-credentialed program preparing students in care, management, and life-support of individuals having deficiencies and abnormalities associated with the cardiopulmonary system. A successful graduate of this program will obtain credentials from a national laboratory credentialing agency, the American Heart Association, Cardiovascular Credentialing International, and the National Board for Respiratory Care.

The Cardiorespiratory Sciences Program provides a quality academic experience preparing Respiratory Care Practitioners and Cardiac Technicians. The graduate will possess the attitudes, skills, and knowledge required to think critically, communicate effectively, and provide self-direction while administering care.

The program emphasizes developing competencies that integrate protocols, Clinical Practice Guidelines, and critical pathways into an efficient cardiorespiratory care plan.

A limited entry program, students must attend a health programs orientation and meet with a health programs advisor for additional counseling prior to acceptance in the program. The Cardiorespiratory Sciences Program is accredited by The Commission on Accreditation for Respiratory Care (CoARC). The Commission on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, TX 76021-4244, (817) 283-2835 www.coarc.com

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Analyze data culminating in successful completion of the National Board for Respiratory Care’s (NBRC) Certified Respiratory Therapist Self-Assessment Examination (SAE).
- Synthesize data culminating in successful completion of the NBRC’s Written Registered Respiratory Therapist SAE.
- Appraise data culminating in successful completion of the NBRC’s Clinical Simulation Examination SAE.
- Analyze data culminating in successful completion of the Certified Cardiographic Examination, administered by Cardiovascular Credentialing International, or their successor agency.

GENERAL EDUCATION REQUIREMENTS (31 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 102, 113, 114	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 124 or above	3	_____
SCIENCE: BIOL 223, 224, 251	12	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, DAN 101, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (56 Credits):

	CR	SEMESTER
CLS 151 Phlebotomy	2	_____
CRS 111 Introductory Concepts of Cardiorespiratory Sciences	3	_____
CRS 112 Introductory Concepts of Cardiorespiratory Equipment	1	_____
CRS 115 Clinical Practicum I	4	_____

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	CR	SEMESTER
CRS 121 Advanced Concepts of Cardiorespiratory Sciences	3	_____
CRS 122 Advanced Concepts of Cardiorespiratory Equipment	1	_____
CRS 123 Applied Cardiorespiratory Assessment	3	_____
CRS 124 Cardiorespiratory Pharmacology	3	_____
CRS 125 Clinical Practicum II	4	_____
CRS 135 Clinical Practicum III	3	_____
CRS 211 Neonatal and Pediatric Cardiorespiratory Care	3	_____
CRS 212 Neonatal and Pediatric Cardiorespiratory Equipment	1	_____
CRS 213 Cardiorespiratory Diagnostics	3	_____
CRS 214 Cardiorespiratory Diagnostics Equipment	1	_____
CRS 215 Clinical Practicum IV	4	_____
CRS 221 Continuity of Cardiorespiratory Care	3	_____
CRS 222 Seminar for Success	1	_____
CRS 225 Clinical Practicum V	4	_____
EGG 131 Technical Physics I	4	_____
or		
PHYS 110 Conceptual Physics or above		
HIT 117B Medical Terminology I	1	_____
HIT 165B Pathophysiology	4	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CARD-AAS

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Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program is designed to provide students with the opportunity to begin a career in the casino and gaming industry. Students will obtain a strong basic background in casino games, marketing, gaming regulations, gaming law and supervision.

This program is accredited by the Accreditation Commission for Programs in Hospitality Administration (ACPHA), P.O. Box 400, Oxford, MD 21654, telephone: (410) 226-5527, e-mails: aoc@shore.intercom.net or acpha@atlanticbb.net.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate proficiency in the operation of a Casino.
- Demonstrate proficiency in dealing Table Games.
- Demonstrate proficiency in the operation of the Slots Department.
- Demonstrate proficiency in the Casino Cage.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 115B, 124	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (40 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
GAM 106 Supervision of Casino Games	3	_____
GAM 108 Slots Management I	3	_____
GAM 131 Race and Sports Book Management	3	_____
GAM 204 Introduction to Casino Marketing	3	_____
GAM 206 Casino Surveillance	3	_____
GAM 210 Casino Customer Service	3	_____
GAM 225 Introduction to Gaming Management	3	_____
GAM 235 Gaming Laws and Regulations	3	_____
GAM 295 Work Experience in Casino/Gaming	1	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____
Plus 9 credits from the following:		
GAM 103 Casino Cage Operations	3	_____
GAM 109 Slots Management II	3	_____
GAM 119 Blackjack Dealing	3	_____
GAM 121 Craps Dealing	3	_____
GAM 122 Roulette Dealing	3	_____
GAM 123 Baccarat Dealing	3	_____
GAM 124 Poker Dealing	3	_____
GAM 126 Pai Gow Tiles Dealing	3	_____
GAM 207 Table Games Management	3	_____
GAM 208 Casino Business Strategy	3	_____
GAM 222 European Roulette Dealing	3	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Computer Office Technology provides individuals with the knowledge and skills necessary for office professionals. Courses include instruction in the latest computer office technology skills (using keyboard, voice, and handwriting computer input); software (including word processing, spreadsheets, databases and presentations); general and advanced office skills; and communication skills.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in Computer Input using a keyboard by touch, voice recognition software, or handwriting recognition software at a minimum of 30 wpm with 95% accuracy.
- Demonstrate proficiency in computer Input of various office-related documents (using methods listed above) in a word processing program with 95% accuracy.
- Demonstrate beginning and intermediate functions of a word processing program with 95% accuracy.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, GEOG 106 or above, HIST, International languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
BUS 106B Business English	3	_____
BUS 108 Business Letters and Reports	3	_____
COT 102 Computer Keyboarding II	3	_____
COT 127B Microsoft Office for Offices	3	_____
COT 129B Records Management	3	_____
COT 200 Word Processing I	3	_____
COT 201B Word Processing II	3	_____
COT 213B Business Professionalism	3	_____
MGT 201 Principles of Management	3	_____
Plus 5 credits from the following:		
BUS 101 Introduction to Business	3	_____
CIT 206B MS Outlook Certification Preparation	2	_____
COT 103B Keyboard Review and Speed	1	_____
COT 108 Speedwriting Shorthand I	3	_____
COT 109B Speedwriting Shorthand II	3	_____
COT 132B Outlook for Offices	1	_____
COT 205B Pads and Tabs – Office on the Go	3	_____
COT 206B Speech Recognition for Offices	3	_____
COT 208B Tablet Computer, Voice and Handwriting	1	_____
COT 209B Tablet Computer, Voice and Handwriting II	3	_____
MGT 100B Practical Human Relations for Business	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

COT-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science in Electronic Engineering Technology – Electronic Crime Investigation is a program of study that provides students with the skills necessary to investigate computer crime. It includes instruction in PC troubleshooting and repair Microsoft operating systems and Cisco networking as well as specialized training in computer forensics, network forensic, and digital crime investigators.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the process of acquiring and handling digital evidence including: the details of computer hard drive configuration and methods of hiding data; encryption methods and implementation methods for deciphering encrypted data; analysis of network traffic and the ability to differentiate between normal and malicious activity; the use of hardware and software tools used in computer and network forensics.
- Demonstrate how to set up investigator’s office and laboratory.
- Demonstrate how digital evidence is used in courtroom as well as the requirements for becoming an expert witness.

GENERAL EDUCATION REQUIREMENTS (23 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____
ENGLISH: ENG 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205 HIST 105,106, 150, 151, 210, 247, 260 HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131	4	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CF 117B Computer Forensics	3	_____
CF 118B Internet Forensics	3	_____
CF 119B Introduction to Electronic Crime for Law Enforcement	3	_____
CF 124B Digital Crime Investigation	3	_____
CF 217B Advanced Computer Forensics	3	_____

Continued in next column.

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	CR	SEMESTER
CIT 110 A+ Hardware	3	_____
CIT 211 MCITP/MCTS Windows Workstation OS	3	_____
CIT 212 MCITP/MCTS Windows Server OS	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____
IS 100B or IS 101 Core Computing Competency Introduction to Information Systems	0-3	_____

Plus 6-9 credits from the following:

CIT 118B Network Security Management	3	_____
CIT 173 Introduction to Linux	3	_____
CIT 174 Linux System Administration	3	_____
CIT 213 MCITP/MCTS Network Infrastructure	3	_____
CIT 217 Security+	3	_____
CIT 290 Internship in CIT I	1-3	_____
CIT 291 Internship in CIT II	1-3	_____
CRJ 104 Introduction to Administration of Justice	3	_____
CRJ 164 Introduction to Criminal Investigation	3	_____
CSCO 121 CCNA Routing Protocols and Concepts	4	_____
CSCO 220 CCNA LAN Switching and Wireless Fundamentals	4	_____
CSCO 221 CCNA WAN Fundamentals	4	_____
CSCO 230B Fundamentals of Network Security	4	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CITCRIMAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree provides students with the necessary education and skills required by today’s Network Security specialists. Instruction includes courses on server/client centric security issues as well as router/switch centric security issues. It provides students with a wide array of training in various functional areas related to network security. Completion of this course of study prepares students for successful completion of a number of industry certification exams; such as CompTia Security+, Cisco CCNA: Security, and others.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate computer hardware/software knowledge and skills.
- Be able to develop basic organization security policies.
- Demonstrate use of networking tools and devices as applies to detecting and mitigating security attacks.
- Demonstrate network security management skills.
- Demonstrate basic project management skills.

GENERAL EDUCATION REQUIREMENTS (23 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____
ENGLISH: ENG 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131	4	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CF 118B Internet Forensics	3	_____
CIT 173 Introduction to Linux	3	_____
CIT 174 Linux System Administration	3	_____
CIT 217 Security+	3	_____
CIT 263B Project Management	3	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
CSCO 120 CCNA Internetworking Fundamentals	4	_____
CSCO 121 CCNA Routing Protocols and Concepts	4	_____
CSCO 220 CCNA LAN Switching and Wireless Fundamentals	4	_____
CSCO 221 CCNA WAN Fundamentals	4	_____
CSCO 230B Fundamentals of Network Security	4	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
Plus 0-2 credits from the following:		
CF 117B Computer Forensics	3	_____
CIT 110 A+ Hardware	3	_____
CIT 111 A+ Software	3	_____
ET 108B Telecommunications and the Information Age	3	_____
CIT 118B Network Security Management or above	3	_____

Any course with CSCO prefix

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CITNESEAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program course of study provides students with the necessary education and skills required by today's computer networking industry. Instruction includes courses on client/server centric LAN networking, router/switch centric internetworking, as well as operation and administration of high-end web server environments. It provides students with a wide array of training in various functional areas related to computer networking. Completion of this program prepares students for successful completion of a number of industry certification exams, such as CompTia A+/N+, Cisco CCNA, Microsoft MCITP and others. Instruction takes place in a hands-on state-of-the-art lab environment. A Certificate of Completion will be issued by the CET Department for each EET Internetworking concentration completed by the student.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate computer hardware/software knowledge and skills.
- Demonstrate basic computer networking knowledge and skills.
- Client/Server concentration students demonstrate intermediate knowledge of MS LAN networking technology.
- Router/Switch concentration students demonstrate intermediate knowledge of internetworking technology.
- Linux concentration students demonstrate intermediate knowledge of Linux System Administration.

GENERAL EDUCATION REQUIREMENTS (23 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____
ENGLISH: ENG 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 180, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC 201	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131	4	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CIT 110 A+ Hardware	3	_____
CIT 111 A+ Software	3	_____
CIT 112B Network+	3	_____
CIT 263B Project Management	3	_____
CSCO 105B Fundamentals of Voice and Data Cabling	3	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____

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Continued from previous column.

	CR	SEMESTER
FOR CLIENT/SERVER:		
CF 118B Internet Forensics	3	_____
CIT 211 MCITP/MCTS Windows Workstation OS	3	_____
CIT 212 MCITP/MCTS Windows Server OS	3	_____
CIT 213 MCITP/MCTS Network Infrastructure	3	_____
CIT 215 MCITP Active Directory	3	_____
FOR ROUTER/SWITCH:		
CSCO 120 CCNA Internetworking Fundamentals	4	_____
CSCO 121 CCNA Routing Protocols and Concepts	4	_____
CSCO 220 CCNA LAN Switching and Wireless Fundamentals	4	_____
CSCO 221 CCNA WAN Fundamentals	4	_____
FOR LINUX:		
CF 118B Internet Forensics	3	_____
CIT 173 Introduction to Linux	3	_____
CIT 174 Linux System Administration	3	_____
CIT 175B Advanced Linux System Administration	3	_____
CIT 217 Security+	3	_____
Program Electives - Choose 3-7 Credits:	3-7	_____
CIT 118B Network Security Management or above	3	_____
ET 108B Telecommunications and the Information Age	3	_____
Any course with CF, CSCO, prefix		

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. CITNETWAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for employment in fields related primarily to computer software. Core courses cover the fundamental knowledge areas and the CIT Concentrations cover specific software skill sets. The department will award a Certificate of Completion for each CIT Concentration successfully completed by the student.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Integrate computer systems into existing network technologies.
- Prescribe computer security procedures.
- Prepare project management strategies.
- Investigate various systems analysis and design techniques.
- Computer applications concentration students: Integrate computer applications to generate solutions to problems.

GENERAL EDUCATION REQUIREMENTS (23 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: EGG 131	4	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CIT 112B Network+	3	_____
CIT 160 Introduction to Computer Security	3	_____
CIT 260 Systems Analysis and Design	3	_____
CIT 263B Project Management	3	_____
CIT 295B Capstone Course	1	_____
IS 100B Core Computing Competency	0-3	_____
or		
IS 101 Introduction to Information Systems		_____
IS 115 Introduction to Programming	3	_____
Plus 3-6 Credits From the following ACC 201, CF, CIT, CS, CSCO, EGG 132, GIS, GRC 103, 175, IS	3-6	_____

Continued from previous column.

	CR	SEMESTER
FOR COMPUTER APPLICATIONS:		
ACC 223B Introduction to QuickBooks	3	_____
CIT 154B Dynamic Web Applications	3	_____
CIT 201B Word Certification Preparation	3	_____
CIT 202B Excel Certification Preparation	3	_____
CIT 203B Access Certification Preparation	3	_____
FOR DATABASE:		
CIT 180 Database Concepts and SQL	3	_____
CIT 181 Introduction to Oracle	3	_____
CIT 183 Database Administration	3	_____
CIT 184 Oracle PL/SQL Programming I	3	_____
CIT 285B Advanced Database Topics	3	_____
FOR GIS:		
GIS 109 Introduction to Geographic Information Systems	3	_____
GIS 111 Introduction to Remote Sensing	3	_____
GIS 205 GIS Applications	3	_____
GIS 214B Customizing ArcGIS Using .NET Framework	3	_____
GIS 236 GIS Applications II	3	_____
FOR PROGRAMMING: Must choose 5 courses AND must complete BOTH beginning and advanced courses for 2 languages.		
JAVA		
CIT 130 Beginning Java	3	_____
CIT 230 Advanced Java	3	_____
C		
CIT 131 Beginning C Programming	3	_____
CIT 231 Advanced C Programming	3	_____
VB.NET		
CIT 132 Beginning Visual Basic	3	_____
CIT 232 Advanced Visual Basic	3	_____
C++		
CIT 133 Beginning C++	3	_____
or		
CS 135 Computer Science I		_____
CIT 233 Advanced C++	3	_____
or		
CS 202 Computer Science II		_____
C#		
CIT 134B Beginning C# Programming	3	_____
FOR WEB DEVELOPMENT:		
CIT 151 Beginning Web Development	3	_____
CIT 152 Web Script Language Programming	3	_____
CIT 251 Advanced Web Development	3	_____
CIT 252 Web Database Development	3	_____
CIT 257 Web Languages	3	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. CITSOFTAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This AAS degree prepares students to inspect and oversee the construction of commercial and residential buildings and landscape management, including sustainable (green) construction. Students learn proper procedures and materials that comply with plans, specifications, building codes, landscape procedures, energy audits and/or the LEED rating system. Students are prepared for employment as construction estimators, project managers, landscape managers, green specialists and other supervisory positions in the construction/landscape industries. Along with special program courses, academic skills emphasizing math, science and human relations components are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Identify items, elements or systems in a construction project by manually and visually identifying what is necessary for its construction, accurately calculate the quantities needed and estimate its total installed cost. (Construction Estimating)
- Explain the construction field administration phase, including describing contract documents, construction schedules, submittals, reports and close-out elements. (Construction Management)
- Identify construction contracts, lien laws, contract changes, scheduling, insurances and bond and contract disputes. (Construction Law)
- Compare advantages of utilizing green construction materials over the more conventional construction materials, including how the materials are produced, the general properties of the material and how material is installed. (Construction Material)
- Describe green alternatives to conventional building practices and describe the pros and cons of those alternatives. (Sustainable Construction - New)
- Explain construction retrofitting for energy efficiency of existing buildings. (Sustainable Construction - Existing)

GENERAL EDUCATION REQUIREMENTS (22 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: MGT 100B	3	_____
MATHEMATICS: MATH 104B or above (except MATH 111B, 115B, 122, 123)	3	_____
SCIENCE: ENV 101, GEOG 103	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: PSY 101, SOC 101, SPAN 101B	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (38 Credits):

	CR	SEMESTER
CONS 120B Printreading and Specifications	3	_____
CONS 205B Construction Site Safety OSHA Standards	3	_____
CONS 282B Construction Law	3	_____
CONS 286B Construction Management and Analysis	3	_____
CONS 299B Construction Technology Capstone	2	_____
SCT 101B Fundamentals of Sustainability	3	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
SCT 105B Sustainable Construction Materials	3	_____
SCT 201B Sustainable Construction of New Buildings	3	_____
SCT 202B Sustainable Construction of Existing Buildings	3	_____

FOR CONSTRUCTION MANAGEMENT:

BI 101B Introduction to Building Codes	4	_____
BUS 101 Introduction to Business	3	_____
CONS 221 Construction Estimating	3	_____
CONS 281B Construction Planning, Scheduling and Control	3	_____

FOR SUSTAINABLE CONSTRUCTION TECHNOLOGY:

CONS 288B Quality Control of Construction Waste	3	_____
SCT 113B Renewable Energy Efficiency	3	_____
SCT 210B Sustainable Technology	3	_____
SCT 290B Legal Development of Sustainable Construction	3	_____

FOR LANDSCAPE MANAGEMENT:

LAND 200B Landscape Management	3	_____
LAND 214B Irrigation Systems	3	_____
LAND 223B Integrated Pest Management	3	_____
LAND 257 Ornamental Plant Materials	3	_____
or		
LAND 258 Xeric Plant Materials		

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CONST-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This Associate of Applied Science Degree builds the skills required to provide professional and quality workmanship in the construction industry. The core curriculum stresses the theory and application of rough and finish electrical, low-voltage, photovoltaic, plumbing or weatherization, depending on which trade the student chooses, for residential and commercial construction. Instruction includes classroom and laboratory course work. Along with special program courses, academic skills emphasizing math, science and human relations components are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Read construction prints, to include: site, foundation, floor and structural plans, sectional and detail views and electrical, low-voltage or plumbing plans.
- Calculate electrical, low-voltage, photovoltaic, plumbing, or weatherization construction related formulas.
- Identify the equipment, material and/or systems necessary for any given residential or commercial electrical, low-voltage, photovoltaic, plumbing, or weatherization situation.
- Interpret electrical, low-voltage, photovoltaic, plumbing or weatherization building codes.
- Explain how to troubleshoot and repair problems that arise in electrical, low-voltage, photovoltaic, plumbing, or weatherization systems.

GENERAL EDUCATION REQUIREMENTS (22 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: MGT 100B	3	_____
MATHEMATICS: MATH 104B or above (except MATH 111B, 115B, 122, 123)	3	_____
SCIENCE: ENV 101	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (38.5 Credits):

	CR	SEMESTER
AC 119B Professionals in Customer Service	1.5	_____
CADD 100 Introduction to Computer Aided Drafting	3	_____
CONS 120B Printreading and Specifications	3	_____
CONS 205B Construction Site Safety OSHA Standards	3	_____
CONS 288B Quality Control of Construction Waste	3	_____
SCT 101B Fundamentals of Sustainability	3	_____
SCT 105B Sustainable Construction Materials	3	_____
FOR ELECTRICAL:		
BTE 116B Electrical Theory and Applications 1	3	_____
BTE 120B Electrical Theory and Applications 2	3	_____
BTE 130B Electrical Theory and Applications 3	3	_____
BTE 210B Electrical Theory and Applications 4	3	_____
BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____

Continued from previous column.

FOR LOW-VOLTAGE TECHNOLOGY:

	CR	SEMESTER
BTE 116B Electrical Theory and Applications 1	3	_____
BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTLV 120B Low-Voltage Theory and Applications 2	4	_____
BTLV 130B Low-Voltage Theory and Applications 3	4	_____
BTLV 210B Low-Voltage Theory and Applications 4	5	_____

FOR PHOTOVOLTAIC:

	CR	SEMESTER
BI 107B Introduction to Energy Conservation Code	1	_____
BTE 116B Electrical Theory and Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____
BTPV 102B Photovoltaic Design and Sales	4	_____
BTPV 201B Photovoltaic Onsite Training	4	_____
SCT 113B Renewable Energy Efficiency	3	_____

FOR PLUMBING:

	CR	SEMESTER
BTFS 110B Fire Sprinkler Theory and Applications 1	3	_____
BTFS 210B Fire Sprinkler Theory and Applications 2	4	_____
BTP 115B Plumbing Theory and Applications 1	3	_____
BTP 120B Plumbing Theory and Applications 2	3	_____
BTP 130B Plumbing Theory and Applications 3	3	_____
BTP 210B Plumbing Theory and Applications 4	3	_____

FOR WEATHERIZATION:

	CR	SEMESTER
BI 107B Introduction to Energy Conservation Code	1	_____
BTW 101B Basic Weatherization	4	_____
BTW 103B Blower Door and Combustion Appliance Safety	2	_____
BTW 105B Lead and Mold Safety	2	_____
BTW 201B Building Performance	4	_____
BUS 102B Entrepreneurship and Innovation	3	_____
SCT 210B Sustainable Technology	3	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. CTBUTR-AAS

60.5
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This Associate of Applied Science Degree builds the skills required to provide professional and quality workmanship in the construction industry. The core curriculum stresses the theory and application of rough and finish carpentry for residential and light commercial construction. Instruction includes classroom, laboratory and actual in-the-field hands-on course work. Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize OSHA requirements and carpentry safety rules and regulations.
- Comprehend and utilize the International Residential Code as it applies to rough carpentry.
- Comprehend and utilize blueprint reading and specifications, to include framing terminology.
- Comprehend and utilize proper rough and finish carpentry hand, power, and pneumatic tool usage.
- Comprehend the various types of rough lumber and rough hardware utilized in rough carpentry.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (38 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____	BTC 101B Building Trades Carpentry - Level I	5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____	BTC 102B Building Trades Carpentry - Level II	5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205 HIST 105, 106, 150, 151, 210, 247, 260 HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	BTC 103B Building Trades Carpentry - Level III	5	_____
MATHEMATICS: MATH 116 or above (except MATH 122, 123)	3	_____	BTC 104B Building Trades Carpentry - Level IV	5	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____	BTC 105B Building Trades Carpentry - Level V	5	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	BTC 106B Building Trades Carpentry - Level VI	5	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	CONS 295B Construction Internship I	4	_____
			CONS 296B Construction Internship II	4	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. CONSCA-AAS

63
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The AAS degree in Criminal Justice addresses both the legal and professional aspects of the criminal justice network while integrating social and behavioral sciences. The program prepares people seeking employment in the field of criminal justice. The program also provides professional growth and preparation for career promotions to those already employed in the criminal justice field.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate understanding of the three subsystems (police, corrections, and the courts) of the criminal justice network and the workings of these institutions in society.
- Explain the means by which institutions provide justice and how it is used to satisfy the needs of society.
- Demonstrate knowledge of the overall problem of crime in the United States, including different types of crimes.
- Understand current issues related to crime prevention and rehabilitation of offenders.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, ENG 102, 114	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: HMS 130, 135B, 265B, PSC 201, PSY 101, 102, 207, 208, 261, SOC 101, 102, 205, 275	3	_____
MATHEMATICS: MATH 104B or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
CRJ 104 Introduction to Administration of Justice	3	_____
CRJ 106 Introduction to Corrections	3	_____
CRJ 120 Community Relations	3	_____
CRJ 130 Survey of Criminal Law	3	_____
CRJ 164 Introduction to Criminal Investigation	3	_____
CRJ 220 Criminal Procedures	3	_____
CRJ 270 Introduction to Criminology	3	_____
Plus 15 credits from the following:		
CRJ Electives	15	_____

ASSOCIATE OF APPLIED SCIENCE

CRJ-AAS **61** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for a career as a peace officer with Category I and II Nevada Law Enforcement Agencies. Students who successfully complete the program will be awarded a Nevada POST Category I certificate. The curriculum places a strong emphasis on Community Oriented Policing and Problem Solving (COP & PS). Testing methodology is structured for an active learning environment which includes written examinations, scenarios and case studies.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Basic fundamentals of academic course work as required by the Nevada Commission on Peace Officer’s Standards and Training (POST).
- Demonstrate the proper firing techniques for firearms and use of force requirements for a Nevada Peace Officer.
- Participate in the use of defensive tactics techniques that are authorized by Nevada Law Enforcement agencies.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: HMS 130, 135B, 265B, PSC 201, PSY 101, 102, 207, 208, 261, SOC 101, 102, 205, 275	3	_____
MATHEMATICS: MATH 104B or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	6	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
CRJ 103 Communication Within the Criminal Justice Field	3	_____
CRJ 110B Introduction to Nevada Law Enforcement	3	_____
CRJ 111B Firearms I	3	_____
CRJ 114B Firearms II	2	_____
CRJ 167B Preliminary Investigation for Police Recruits	3	_____
CRJ 170B Physical Training for Law Enforcement	1	_____
CRJ 210B Community Policing in Southern Nevada	3	_____
CRJ 216B Police Patrol Tactics	3	_____
CRJ 219B Emergency Vehicle Operation and Control	3	_____
CRJ 221B Criminal Procedures for Law Enforcement	3	_____
CRJ 229B Defensive Tactics	3	_____
CRJ 233 Nevada Criminal Law	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CRJLET-AAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree is a quality, professional program for students wishing to enter and/or advance in the field of culinary arts. Students are taught to master the fundamentals of cooking with emphasis on hands-on preparation of various cuisines including basic cookery, aromatics, international and French cooking.

Students who successfully complete this degree are eligible to apply and receive Certified Culinarian status from the American Culinary Federation.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in food service sanitation and nutrition.
- Demonstrate basic cooking skills including product identification, knife skills, cold food production and cooking skills by passing the requirements of standardized practical skills test.
- Demonstrate the ability to identify and show proficiency in the use of many different herbs and spices by passing the requirements of a practical skills test.
- Produce commonly used stocks, the foundation sauces and a large compliment of secondary sauces.
- Develop menus in a multitude of American and International cuisines and show proficiency in the production of these menus in an operational setting.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 115B or 124	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (45 Credits):

	CR	SEMESTER
CUL 110 Basic Cookery	4	_____
CUL 125 Principles of Baking	3	_____
CUL 130 Garde Manger	3	_____
CUL 200 Aromatics/Restaurant Experience	4	_____
CUL 220 International Cuisine	4	_____
CUL 240 French Cuisine	4	_____
CUL 250 Saucier	3	_____
CUL 295 Work Experience in Culinary Arts	1	_____
FAB 102 Food Service Sanitation II	2	_____
FAB 112 Restaurant Management I	3	_____
FAB 160 Hospitality Purchasing	3	_____
FAB 167 Food Service Nutrition	2	_____
FAB 210 Fundamentals of Food and Beverage Control	3	_____
FAB 230 Menu Planning	3	_____
HMD 101 Introduction to the Hospitality Industry	3	_____

ASSOCIATE OF APPLIED SCIENCE

CUL-AAS **70** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Deaf Studies program prepares students to work in a variety of situations with the deaf community. Students will obtain a strong understanding, receptively and expressively, of American Sign Language, deaf culture and history.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Acquire ASL vocabulary relevant to day-to-day discourse, academic topics, medical issues, financial issues, familial issues, political issues, and recreational activities.
- Acquire vocabulary relevant to figurative language in ASL.
- Exhibit an ability to conduct spontaneous discourse with native and near native ASL users.
- Exhibit an ability to apply ASL classifiers relevant to situations and rules of usage.
- Exhibit an ability to explain the basic grammar rules of ASL relating to questions, clauses, and non-manual signals.
- Exhibit an ability to apply their skills and knowledge in non-rehearsed situations.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
AM 145 American Sign Language I	4	_____
AM 146 American Sign Language II	4	_____
AM 147 American Sign Language III	4	_____
AM 148 American Sign Language IV	4	_____
AM 149 American Sign Language V	4	_____
AM 151 Fingerspelling I	1	_____
AM 152 Fingerspelling II	1	_____
AM 153 Deaf Culture	3	_____
AM 154 Deaf History	3	_____
AM 155 Structure of American Sign Language	3	_____
AM 156 A Survey of Deafness	1	_____
AM 157 ASL/English Translation	3	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

CSN offers the first Sign Language Interpreter Preparation program in Nevada. Upon completion of the program, students will have entry-level professional skills as Sign Language Interpreters and Translators.

It is our mission to improve the quality and quantity of interpreting services provided to individuals who are deaf, hard of hearing and deaf-blind.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate conversational American Sign Language skills at a competency level equivalent to that of an interpreter.
- Demonstrate successful interpretation of a communication transaction between a Deaf and Hearing individual using the methodology of Consecutive Interpretation.
- Demonstrate successful interpretation of a communication transaction between a Deaf and Hearing individual using the methodology of Simultaneous Interpretation.
- Demonstrate basic interpreting skills and knowledge in specialized areas such as: Deaf-Blind, Theatrical, Religious, Medical, Legal and Education.
- Take and pass the EIPA-Pre Screening tool for employment with the Clark County School District as an interpreter.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
AM 153 Deaf Culture	3	_____
AM 154 Deaf History	3	_____
AM 155 Structure of American Sign Language	3	_____
AM 156 A Survey of Deafness	1	_____
AM 157 ASL/English Translation	3	_____
AM 205 Introduction to Interpreting	4	_____
AM 206 Consecutive Interpreting	4	_____
AM 207 Simultaneous Interpreting	4	_____
AM 208 Observation/Practicum in Interpreting	3	_____
AM 209 Advanced Interpreting	4	_____
AM 210 Specialized Interpreting	2	_____
AM 211 Internship in Interpreting	3	_____

ASSOCIATE OF APPLIED SCIENCE

DSINT-AAS **62** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Ultrasonography is a diagnostic imaging procedure that utilizes high frequency sound waves to image abdominal organs, vessels, the heart, and the developing fetus in the maternal uterus. Ultrasound can demonstrate masses, fluid accumulations and other pathology in the patient. Ultrasound exams are performed under the supervision of a qualified physician. Students electing to take this area of study are prepared to enter the sonography field in the areas of adult and pediatric echocardiography as well as vascular ultrasound. The student, upon graduation, will be eligible to sit for the National Registry Exams for Diagnostic Cardiac Sonography. Upon passing the exams, they will use the designation RDCS (Registered Diagnostic Cardiac Sonographer). This is a limited entry program and students must attend a health programs orientation and meet with a health programs advisor for additional counseling. The Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the JRC-DMS which is located at 2025 Woodlane Drive, St. Paul, MN 55125, (651) 731-1582.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to evaluate cardiovascular ultrasonic images for appropriate anatomy and recognize cardiovascular pathologic conditions.
- Demonstrate the ability to operate cardiovascular ultrasound equipment and determine proper sonographic techniques, transducer size, and image setting to obtain quality images.
- Demonstrate the ability to anticipate and provide basic patient care and comfort during sonographic procedures.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

SPECIAL PROGRAM REQUIREMENTS (65 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____	EGG 131 Technical Physics I or Physics with a lab	4	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____	HIT 117B Medical Terminology I	1	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	SON 102B Basic Cardiac Sonography	3	_____
MATHEMATICS: MATH 111B, 116 or above (except MATH 122, 123)	3	_____	SON 102L Basic Cardiac Sonography Lab	1	_____
SCIENCE: BIOL 223, 224	8	_____	SON 116B Echocardiography I	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	SON 125B Sonographic Physics and Instrumentation I	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	SON 135B Cardiovascular Ultrasound Physics	2	_____
			SON 150B Patient Care for Imaging Professions	3	_____
			SON 160B Sonographic Scanning Lab I	2	_____
			SON 190B Sonographic Physics and Instrumentation II	3	_____
			SON 195B Sonographic Scanning Lab II	2	_____
			SON 216B Echocardiography II	3	_____
			SON 225B Stress Echocardiography	3	_____
			SON 250B Seminar and Case Review I	2	_____
			SON 255B Seminar and Case Review II	2	_____
			SON 261B Pediatric Echocardiography I	3	_____
			SON 262B Pediatric Echocardiography II	2	_____
			SON 275B Vascular Sonography I	3	_____
			SON 275L Vascular Sonography Lab I	1	_____
			SON 276B Vascular Sonography II	3	_____
			SON 276L Vascular Sonography Lab II	1	_____
			SON 280B Sonographic Clinical Practicum I	2	_____
			SON 281B Sonographic Clinical Practicum II	2	_____
			SON 282B Sonographic Clinical Practicum III	3	_____
			SON 283B Sonographic Clinical Practicum IV	3	_____
			SON 284B Sonographic Clinical Practicum V	3	_____
			SON 291B Cardiac Registry Review	2	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. SONCAR-AAS

92
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Ultrasonography is a diagnostic imaging procedure that utilizes high frequency sound waves to image abdominal organs, vessels, the heart, and the developing fetus in the maternal uterus. Ultrasound can demonstrate masses, fluid accumulations and other pathology in the patient. Ultrasound exams are performed under the supervision of a qualified physician. Students electing to take this area of study are prepared to enter the sonography field in the areas of abdominal, obstetrical/gynecological and vascular ultrasound. The student, upon graduation, will be eligible to sit for the National Registry Exams for Diagnostic Medical Sonography. Upon passing the exams, they will use the designation RDMS (Registered Diagnostic Medical Sonographer). This is a limited entry program and students must attend a health programs orientation and meet with a health programs advisor for additional counseling. The Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the JRC-DMS which is located at 2025 Woodlane Drive, St. Paul, MN 55125, (651) 731-1582.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to evaluate abdominal, obstetrical/gynecological and vascular ultrasonic images for appropriate anatomy and recognize pathologic conditions.
- Demonstrate the ability to operate ultrasound equipment and determine proper sonographic techniques, transducer size, and image setting to obtain quality images.
- Demonstrate the ability to anticipate and provide basic patient care and comfort during sonographic procedures.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 116 or above (except MATH 122, 123)	3	_____
SCIENCE: BIOL 223, 224	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

SPECIAL PROGRAM REQUIREMENTS (66 Credits):

	CR	SEMESTER
EGG 131 Technical Physics I or Physics with a lab	4	_____
HIT 117B Medical Terminology I	1	_____
SON 101B Basic Sonography	3	_____
SON 101L Basic Sonography Laboratory	1	_____
SON 125B Sonographic Physics and Instrumentation I	3	_____
SON 150B Patient Care for Imaging Professions	3	_____
SON 160B Sonographic Scanning Lab I	2	_____
SON 190B Sonographic Physics and Instrumentation II	3	_____
SON 195B Sonographic Scanning Lab II	2	_____
SON 210B Abdominal Sonography I	3	_____
SON 220B Abdominal Sonography II	3	_____
SON 235B Gynecologic Sonography	3	_____
SON 245B Obstetrical Sonography I	3	_____
SON 250B Seminar and Case Review I	2	_____
SON 255B Seminar and Case Review II	2	_____
SON 260B Obstetrical Sonography II	3	_____
SON 270B Small Parts/Pediatric Sonography	2	_____
SON 275B Vascular Sonography I	3	_____
SON 275L Vascular Sonography Lab I	1	_____
SON 276B Vascular Sonography II	3	_____
SON 276L Vascular Sonography Lab II	1	_____
SON 280B Sonographic Clinical Practicum I	2	_____
SON 281B Sonographic Clinical Practicum II	2	_____
SON 282B Sonographic Clinical Practicum III	3	_____
SON 283B Sonographic Clinical Practicum IV	3	_____
SON 284B Sonographic Clinical Practicum V	3	_____
SON 290B Sonography Registry Review	2	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. SONVAS-AAS

93
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Diesel/Heavy Equipment program prepares students to enter the workforce as technicians to maintain, diagnose, and repair heavy equipment. The program focuses both on over the road trucks as well as diesel powered heavy equipment, typically used in the construction industry. Students will learn diesel engine and propulsion systems, fuel management systems, related accessory components, as well as hydraulics, welding certifications, and HVAC certifications. All students will be prepared to take ASE certification exams at the completion of the appropriate course. Integral to this program is a paid internship component, allowing students to gain valuable work experience prior to completion of their program, making them more employable.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Prepare for employment in the Diesel Technology Industry as a Certified Technician.
- Successfully pass the following ASE/NATEF certification exams: ASE T2, ASE T3, ASE T4, ASE T5, ASE T6, ASE T7.
- Successfully pass the AWS D1.1 mild steel horizontal welding certification.
- Successfully pass the IMACA refrigerant handling certification.
- Successfully pass the SP2 safety and pollution prevention certification.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (52 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____	AC 211	Transport Refrigeration	2 _____
ENGLISH: ENG 107	3	_____	DT 104	Diesel Equipment Service	4 _____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	DT 115	Diesel/Heavy Equipment Electrical Systems	4 _____
MATHEMATICS: MATH 116 or above (except MATH 122, 123)	3	_____	DT 117	Advanced Diesel/Heavy Equipment Electronics	4 _____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____	DT 136	Diesel Engine Repair I	4 _____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	DT 138	Diesel Engine Repair II	4 _____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	DT 145	Diesel Brake Systems	4 _____
			DT 155	Steering, Suspension and Directional Controls	4 _____
			DT 165	Diesel/Heavy Equipment Heating and Air Conditioning	4 _____
			DT 205	Diesel/Heavy Equipment Drive Train and Axles	4 _____
			DT 295	Internship Co-Op I	2 _____
			DT 296	Internship Co-Op II	2 _____
			DT 297	Internship Co-Op III	2 _____
			MT 108B	Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4 _____
			MTL 223B	Special Topics in Welding Technology	4 _____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

DLS-AAS

77
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF
APPLIED SCIENCE



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The program is aimed at providing individuals with both the business knowledge needed for managing and/or owning a child care and the knowledge of children necessary to provide quality care.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Manage the business aspects of a day care program, including record keeping, financial and staff supervision.
- Implement a developmentally appropriate program for infants, toddlers and preschoolers.
- Meet licensing requirements for being director of a preschool and/or infant/toddler program.
- Distinguish typical and atypical development in young children.
- Demonstrate appropriate skills in modifying the care and education of young children to allow for the appropriate inclusion of children with atypical development.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B, 120 or above	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
BUS 101 Introduction to Business	3	_____
or		
BUS 102B Entrepreneurship and Innovation		
or		
MGT 103 Introduction to Small Business Management		
ECE 130 Infancy	3	_____
ECE 200 The Exceptional Child	3	_____
ECE 202 Understanding Human Growth and Development	3	_____
ECE 204 Principles of Child Guidance	3	_____
ECE 235 Adapting Curricula for Young Children with Special Needs	3	_____
ECE 240 Administration of the Preschool	3	_____
ECE 250 Introduction to Early Childhood Education	3	_____
ECE 251 Curriculum in Early Childhood Education	3	_____
ECE 252 Infant/Toddler Curriculum	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 100B Practical Human Relations for Business	3	_____
MGT 212 Leadership and Human Relations	3	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ECEDIR-AAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science degree in Early Childhood Education – Child Care and Education is designed for students seeking careers and/or personal growth in the field of early childhood education. The program provides students with formal academic studies in which they will gain both theoretical and practical skills necessary to work in an infant/toddler, preschool setting, family day care, childcare center or other child centered job. Upon completion of this degree, students may go directly into employment.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the elements and dynamics of quality education and care for young children ages 0-5.
- Demonstrate appropriate skills for providing quality education and care for young children ages 0-5.
- Demonstrate appropriate skills in interacting with young children ages 0-5 and their families.
- Distinguish typical and atypical development in young children ages 0-5.
- Demonstrate appropriate skills in modifying the care and education of young children ages 0-5 to allow for the appropriate inclusion of those with atypical development.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

Continued from previous column.

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3-5	_____	ECE 157 Art in the Preschool Curriculum	1	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____	ECE 158 Activities for Physical Development in Young Children	1	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	ECE 200 The Exceptional Child	3	_____
MATHEMATICS: MATH 104B, 120 or above (except MATH 122, 123)	3	_____	ECE 202 Understanding Human Growth and Development	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____	ECE 204 Principles of Child Guidance	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	ECE 235 Adapting Curricula for Young Children with Special Needs	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	ECE 245 Practicum Seminar	2	_____
			ECE 250 Introduction to Early Childhood Education	3	_____
			ECE 251 Curriculum in Early Childhood Education	3	_____
			ECE 252 Infant/Toddler Curriculum	3	_____
			ECE 260 Children's Literature	3	_____
			ECE 274 Individual Child and Family	3	_____
			FOR PRESCHOOL:		
			ECE 151 Math in the Preschool Curriculum	1	_____
			ECE 152 Science in the Preschool Curriculum	1	_____
			ECE 231 Preschool Practicum	3	_____
			FOR INFANT TODDLER:		
			ECE 127 Role of Play for Infants and Toddlers	1	_____
			ECE 134 Guiding Infant/Toddlers	1	_____
			ECE 232 Practicum: Infant and Toddler	3	_____

SPECIAL PROGRAM REQUIREMENTS (42 Credits):

	CR	SEMESTER
ECE 122 Observation Skills	1	_____
ECE 130 Infancy	3	_____
ECE 155 Literacy and the Young Child	1	_____
ECE 156 Music in the Preschool Curriculum	1	_____

Continued in next column.

ECEECE-AAS **67** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree provides students both theoretical knowledge and practical skills necessary for educational work with children in daycare centers, preschools, elementary schools and children with special needs. This course work partially fulfills the requirements established by the "No Child Left Behind Act of 2001." Upon completion of this degree, students may elect to transfer credits towards upper-division studies and/or go directly into employment.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the elements and dynamics of quality education while functioning as a classroom aide for school age children.
- Demonstrate appropriate skills for providing a quality educational environment for school age children.
- Demonstrate appropriate skills in interacting with school age children.
- Distinguish typical and atypical development in school age children.
- Demonstrate appropriate skills in modifying the educational setting for school age children to allow for the appropriate inclusion of school age children with atypical development.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (40 Credits):

	CR	SEMESTER
ECE 122 Observation Skills	1	_____
ECE 155 Literacy and the Young Child	1	_____
ECE 157 Art in the Preschool Curriculum	1	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
ECE 159 After School Activities	1	_____
ECE 200 The Exceptional Child or EDU 203 Introduction to Special Education	3	_____
ECE 202 Understanding Human Growth and Development	3	_____
ECE 204 Principles of Child Guidance	3	_____
ECE 241 Practicum for Teacher Aides	4	_____
ECE 245 Practicum Seminar	2	_____
ECE 260 Children's Literature	3	_____
EDU 201 Introduction to Elementary Education or ECE 250 Introduction to Early Childhood Education	3	_____
EDU 210 Nevada School Law	2	_____
EDU 214 Preparing Teachers to Use Technology	3	_____
EDU 220 Principles of Educational Psychology or ECE 274 Individual Child and Community and ECE 138 Step Families	4	_____
ECE 280 Valuing Cultural Diversity	3	_____
IS 101 Introduction to Information Systems	3	_____

ASSOCIATE OF APPLIED SCIENCE

65
ECETCH-AAS Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Engineering Technology with Electronics emphasis prepares students to assist in providing support for engineering functions or to function as an Electronics Technician. Instruction includes analog and digital circuit design, implementation and testing, fabrication techniques, telecommunications, microprocessor programming and interface. Specialize concentration instruction includes topics such as in-depth analysis of analog and digital circuits, electrical and power supply troubleshooting, systems such as radar and microwaves, computer and network fundamentals, medical terminology, healthcare organizational dynamics, and fluid dynamics. Accredited by the Technology Accreditation Commission of ABET, <http://www.abet.org>.

This two-year program provides students with the methods and procedures used in engineering organizations and by electronics technicians in a bench repair, defense contractor, and biomedical equipment repair functions. Instruction takes place in a hands-on, state-of-the-art environment.

Educational Objectives - Within a few years of graduation: Graduates from CSN's Engineering Technology with Electronics emphasis program will demonstrate the ability to apply circuit analysis and design, computer programming, analog and digital electronics, and microprocessor/microcontroller principles to install, test, troubleshoot and maintain electrical and electronic systems as bench, defense contractor, and biomedical equipment technicians. Graduates will have effective technical communication skills necessary to function on professional teams as technicians or managers. Graduates are prepared to enter the working force with professional work ethic with the commitment to lifelong learning, quality and continuous improvement through the clear ability to assume increasing levels of responsibility in both industry and community.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of safety procedures and proper electronics fabrication techniques.
- Identify components, design, construct, and test various circuits to include filters and construct a Bode Plot of an amplifier's frequency response.
- Construct, analyze and test various types of digital circuits and microprocessor/microcontroller circuits. Demonstrate a working knowledge writing programs to control other devices.
- Demonstrate commitment to quality, timeliness, continuous improvement, while showing an understanding of the need for and an ability to engage in continuing professional development.
- For Bench and Defense Contractor concentrations, demonstrate a working knowledge of common modulation/transmission methods to include such as AM, FM and Pulse modulation. The Bench concentration will also focus upon more advanced analog/digital circuits. The Defense Contractor will focus upon circuit repair along with systems such as radar.
- For Biomedical Equipment concentration, characterize the computers/networks used in the healthcare industry, demonstrate an ability to explain fluid dynamics, common medical terminology, health-care dynamics, and the fundamentals functional characteristics of the human body.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205 HIST 105, 106, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 127 or higher	3	_____
SCIENCE: EGG 131, 132	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
ET 104B Fabrication and Soldering Techniques	2	_____
ET 131B DC for Electronics	4	_____

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	CR	SEMESTER
ET 132B AC for Electronics	4	_____
ET 212B Digital Logic I	4	_____
ET 220B Solid State Devices and Circuits I	4	_____
ET 228B Data Acquisition	3	_____
ET 282B Microprocessors I	3	_____
IS 100B Core Computing Competency	0-3	_____
or		
IS 101 Introduction to Information Systems		_____
FOR BENCH TECHNICIAN:		
ET 106B Test Equipment Operation	3	_____
ET 213B Digital Logic II	4	_____
ET 222B Solid State Devices and Circuits II	4	_____
ET 293B Telecommunication Transmission Methods	3	_____
FOR DEFENSE CONTRACTOR TECHNICIAN:		
ET 205B Power Supply Theory and Repair	3	_____
ET 289B Electrical Troubleshooting	4	_____
ET 293B Telecommunication Transmission Methods	3	_____
With at least 3-4 credits from the following:		
ET 106B Test Equipment Operation	3	_____
ET 113B Introduction to Radar	3	_____
ET 125B RF and Microwave Devices	3	_____
ET 195B or higher	1-4	_____
FOR BIOMEDICAL EQUIPMENT TECHNICIAN:		
CIT 110 A+ Hardware	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____
HHP 123B Introduction to the Human Body	4	_____
HIT 105B Healthcare Delivery Systems	2	_____
HIT 118B Language of Medicine	3	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ETELEC-AAS **64** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program provides students with classroom and laboratory experiences in electricity, mechanical power, pneumatics, hydraulics and ferrous and non-ferrous material. The Industrial Emphasis focuses on those skills used in industrial settings. Academic skills emphasizing related math, science and human relations are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Ensure the level of knowledge and ability to select, test, set up, and maintain various electro-mechanical systems and machinery and perform basic system calculations.
- Construct, operate, and maintain various electrical motor controllers, mechanical power transmission systems, and high pressure fluid power systems.
- Demonstrate the ability to apply various troubleshooting techniques for the identification and correction of faults in electrical, mechanical, and fluid power systems.
- Demonstrate knowledge and skills in basic mathematical calculations, communication, and teamwork concepts.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 116, 124, 126, 127 or higher	3	_____
SCIENCE: EGG 131 and MT 102B or ET 131B	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
ADT 100B Introduction to Drafting Theory	3	_____
AUTO 105B Automotive Maintenance I	4	_____
CADD 100 Introduction to Computer Aided Drafting	3	_____
CONS 120B Printreading and Specifications	3	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 115B Programmable Logic Controllers I	3	_____
MT 116B Programmable Logic Controllers II	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETINDU-AAS

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Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree provides students with classroom and laboratory experiences in electricity, mechanical power, pneumatics, hydraulics and ferrous and non-ferrous material. The Operations Emphasis focuses on those skills used in operational settings. Academic skills emphasizing related math, science and human relations are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the knowledge and ability to follow guidelines for safe operation and maintenance of various mechanical, electrical, and fluid power systems.
- Explain and show the skills to design and operate basic electrical, mechanical, and fluid power systems and to use computer-based programmable logic controller devices to monitor their operation and performance.
- Apply the skills and knowledge to various troubleshooting techniques for identification and correction of faults in electrical circuits and mechanical and high pressure fluid power systems.
- Utilize knowledge and skills in mathematics, written and oral communication, and teamwork.
- Demonstrate skills necessary for further education and managerial positions.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 116, 124, 126, 127 or higher	3	_____
SCIENCE: EGG 131 and MT 102B or ET 131B	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER
AC 103B Introduction to HVAC Mechanical Theory and Application	5	_____
CONS 120B Printreading and Specifications	3	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 115B Programmable Logic Controllers I	3	_____
MT 116B Programmable Logic Controllers II	3	_____
With at least 3-4 credits from the following: Any course with ET or MT prefix	3-4	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ETOPER-AAS

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Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for employment in Power production. This program integrates two hands-on Co-Op/Internships in Operation, Electricity, and Hydro/Electricity that provides students with a wide-range of experiences. This program is presented in cooperation with the U.S. Bureau of Reclamation. Academic skills emphasizing related math, science and human relations are stressed to prepare students to meet challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Identify the occupational positions available in the Power Utility and other power generating plants.
- Participate in an on-job training experience in a power generating plant or dam.
- Identify acceptable work performance standards.
- Develop positive attitudes towards work and service to others.
- Be prepared to accept management and/or supervisory positions in the Power Utility and other generating plants.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 116, 124, 126, 127 or higher	3	_____
SCIENCE: EGG 131 and MT 102B or ET 131B	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (34 Credits):

	CR	SEMESTER
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 115B Programmable Logic Controllers I	3	_____
MT 116B Programmable Logic Controllers II	3	_____

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	CR	SEMESTER
Plus 12 Credits from the following		
FOR ELECTRICAL MAINTENANCE:		
AC 102B Introduction to HVAC Electrical Theory and Application	5	_____
AC 103B Introduction to HVAC Mechanical Theory and Application	5	_____
BTE 116B Electrical Theory and Applications 1	3	_____
CADD 105 Intermediate Computer Aided Drafting	3-4	_____
ESH 207B Introduction to Safety Management	3	_____
ESH 240B Wastewater Treatment I	3	_____
ET 100B Survey of Electronics	3	_____
ET 104B Fabrication and Soldering Techniques	0.5-6	_____
ET 106B Test Equipment Operation	3	_____
MT 180B Co-Op/Internship First Semester	3	_____
MT 181B Co-Op/Internship Second Semester	3	_____
FOR MECHANICAL MAINTENANCE:		
CADD 105 Intermediate Computer Aided Drafting	3-4	_____
ESH 240B Wastewater Treatment I	3	_____
MT 180B Co-Op/Internship First Semester	3	_____
MT 181B Co-Op/Internship Second Semester	3	_____
WELD 130B Welding Support Equipment Operations	3	_____
WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (Tig)	4	_____
FOR PLANT OPERATION:		
CADD 105 Intermediate Computer Aided Drafting	3-4	_____
EMA 101 Principles of Emergency Management	3	_____
EMA 102 Disaster Mitigation and Preparedness	3	_____
ESH 207B Introduction to Safety Management	3	_____
ET 100B Survey of Electronics	3	_____
ET 104B Fabrication and Soldering Techniques	0.5-6	_____
ET 106B Test Equipment Operation	3	_____
MT 180B Co-Op/Internship First Semester	3	_____
MT 181B Co-Op/Internship Second Semester	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETPWR-AAS

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Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The degree provides students with the necessary skills to assist in the planning, design, troubleshooting and maintenance of various devices such as ATM, Kiosks, and slot machines. Instruction includes network management systems such as player tracking/slot management systems or ATM Network Monitoring systems. The appropriate regulations, such as slot machine related gaming regulations or ATM related banking regulations will be covered in each concentration. Key common and specialized components and sub-assemblies of these devices will be covered. For example, some of these components and sub-assemblies are random number generators, opto-couplers, coin comparators, dollar bill acceptors, and printers. Computers and networks using these devices and slot machine gaming are addressed. This two-year program provides the student with the repair methods and procedures used in the industries supported by each concentration. Instruction takes place in a hands-on state-of-the-art environment.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate a working knowledge of the theory of operation of typical self-serve devices such as electronic slot machines, ATMs, and/or Kiosks; Pseudo Random Number Generators; ROM, PROM, EPROM, EEPROM and RAM; and stepper motors.
- Describe the operation of typical peripheral devices; the external features; the money handling assemblies; the modes of operation in devices such as the slot machine, ATMs, and/or Kiosks.
- Identify electronic circuits and components used in these devices.
- Demonstrate positive work ethics and interpersonal skills in a group environment and to deliver written and oral project reports.
- Characterize and troubleshoot the installation and operation of networks that support devices such as slot machines and computers.
- Demonstrate a working knowledge of personal computers and the embedded computers found in slot machines.
- Show an ability to independently analyze, troubleshoot, repair, construct, and/or design slot machines or other self-service devices.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B	3	_____
SCIENCE: EGG 131, ET 131B	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CIT 110 A+ Hardware	3	_____
CSCO 105B Fundamentals of Voice and Data Cabling	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETSLSE-AAS

Continued from previous column.

	CR	SEMESTER
ET 100B Survey of Electronics or ET 104B Fabrication and Soldering Techniques	2-3	_____
ET 132B AC for Electronics	4	_____
ET 212B Digital Logic I	4	_____
ET 238B Device Peripherals	3	_____
ET 294B EET Capstone	3	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
With at least 4 credits from the following:		
ET 205B Power Supply Theory and Repair	2-3	_____
ET 206B Video Monitor Theory and Repair	2-3	_____
ET 289B Electrical Troubleshooting	4	_____
FOR SLOT TECHNOLOGY TECHNICIANS:		
CIT 263B Project Management	3	_____
ET 138B Introduction to Slot Machine Technology	3	_____
GAM 225 Introduction to Gaming Management	3	_____
FOR SELF-SERVICE DEVICE TECHNICIANS:		
ACC 135B Bookkeeping I	3	_____
CSCO 220 CCNA LAN Switching and Wireless Fundamentals	4	_____

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Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Engineering Technology - Telecommunications Emphasis prepares students with the necessary skills required by today's high-tech, high-wage telecommunications industry. Instruction includes; telecommunications and advanced telecommunications and advanced telecommunications topics; IP network installation, configuration, and maintenance; electronics and digital circuits; copper and fiber optic cabling installation. Accredited by the Technology Accreditation Commission of ABET, <http://www.abet.org>.

This two-year program provides the students with the methods and procedures used by technicians in the telecommunications industry. Instruction takes place in a hands-on, state-of-the-art environment.

Educational Objectives - Within a few years of graduation: Graduates from CSN's Telecommunication Engineering Technology Program will demonstrate the ability to apply technical, managerial, design and application skills necessary to install, manage, operate, and maintain telecommunication systems. Graduates will have effective technical communication skills necessary to function on professional teams. Graduates are prepared to enter the working force with professional work ethic with the commitment to lifelong learning, quality and continuous improvement through the clear ability to assume increasing levels of responsibility in both industry and community.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Construct, test, and verify the operation of voice and data cables, various analog, digital and microprocessor/microcontroller circuits, demonstrate a working knowledge of filter circuits, fiber optics, electronics/telecommunications laboratory test equipment.
- Perform IP network installation, maintenance, configuration, analysis, and management, while utilizing devices such as Routers and PCs.
- Explain the signaling and system structure of the various types of telephones, such as the mobile, IP based, and traditional.
- Distinguish between the various modulation and multiplexing techniques commonly employed in the telecommunication transmission systems.
- Demonstrate commitment to quality, timeliness, and continuous improvement, while showing an understanding of the need for and an ability to engage in self-directed continuing professional development.
- Support positive work ethics and interpersonal skills in a group environment and deliver written and oral reports on projects.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 180, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 111, PSY 101, 102, 207, 208, 261, PT 122, SOC	3	_____
MATHEMATICS: MATH 111B	3	_____
SCIENCE: EGG 131, ET 131B	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
CSCO 105B Fundamentals of Voice and Data Cabling	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____
CSCO 121 CCNA Routing Protocols and Concepts	4	_____
CSCO 205B Fiber Optic Cabling	3	_____
ET 108B Telecommunications and the Information Age	3	_____
ET 132B AC for Electronics	4	_____
ET 212B Digital Logic I	4	_____
ET 282B Microprocessors I	3	_____
ET 293B Telecommunication Transmission Methods	3	_____
ET 294B EET Capstone	3	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
Plus 3 credits from the following:		
CIT 110 A+ Hardware	3	_____
ET 106B Test Equipment Operation	3	_____
IS 115 Introduction to Programming	3	_____
CSCO 200 or higher	4	_____
ET 200 or higher	3-4	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ETELCOAAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree provides students with classroom and laboratory experience in electricity, mechanical power, and fluid power systems. The Theater Technology emphasis focuses on those skills used in entertainment environment. Academic courses emphasizing relevant math, science and human relations are stressed to prepare students to meet challenges common in the theater environment. The effective combination of theoretical courses and hands-on experience gained through Co-Op enhances student's ability to secure employment as well as future professional growth in theater technology.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Show the necessary skills to design, assemble, and operate different fluid power systems and perform basic system calculations.
- Demonstrate a working knowledge of how to be effective in their technical roles as a theater technician.
- Obtain relevant up-to-date and applied knowledge and skills to set-up, upgrade and troubleshoot the equipment used in theater environment.
- Develop teamwork skills through design and operation of various mechanical power transmission systems and show potential to accept supervisory responsibilities as a manager.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 116, 120, 124, 126, 127 or higher	3	_____
SCIENCE: EGG 131 and MT 102B or ET 131B	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: MUS 231	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
ADT 100B Introduction to Drafting Theory	3	_____
CADD 100 Introduction to Computer Aided Drafting	3	_____
ET 104B Fabrication and Soldering Techniques	2	_____
IS 100B Core Computing Competency	0-3	_____
or IS 101 Introduction to Information Systems		

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETTHTR-AAS

Continued from previous column.

	CR	SEMESTER
MT 101B Introduction to Theater Technology	2	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
THTR 204 Theater Technology I	3	_____
THTR 214 Theater Technology II	3	_____
WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
Plus at least 6 credits from the following:		
ET 106B Test Equipment Operation	3	_____
ET 132B AC for Electronics	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 115B Programmable Logic Controllers I	3	_____
MT 116B Programmable Logic Controllers II	3	_____
MT 183B Co-Op/Internship Third Semester	3	_____
MT 184B Co-Op/Internship Fourth Semester	3	_____
WELD 131B Blueprint Reading, Layout, and Sketching	3	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (Tig)	4	_____

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Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program prepares students in the fast growing and lucrative Occupational Safety Management career field. Students learn to design, implement and manage an effective and proactive safety program that includes establishing goals, procedures and injury prevention policies. This program prepares students for professional certifications including ASP (Associate Safety Professional), CSP (Certified Safety Professional), CHMM (Certified Hazardous Materials Manager), and CIH (Certified Industrial Hygienist).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the fundamentals of the management of occupational health and safety and its impact on operational profit.
- Demonstrate an understanding of the various laws, regulations and guidelines that are applicable to the ESH arena, and how they drive occupational safety and health.
- Demonstrate knowledge of mathematics, communication skills, and other core degree requirements adequate to assume a supervisory position in Occupational Safety Management.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
BI 101B Introduction to Building Codes	3	_____
ESH 130 Introduction to Hazardous Materials Management	3	_____
ESH 201 40 Hour Hazwoper Certification	3	_____
ESH 205 Transportation of Hazardous Materials	3	_____
ESH 207B Introduction to Safety Management	3	_____
ESH 208B Safety Management II	3	_____
ESH 211B Industrial Hygiene I	3	_____
ESH 212B Industrial Hygiene II	3	_____
ESH 213B Construction 500	3	_____
ESH 214B General Industry 501	3	_____
ESH 265B Safety Laws and Regulations	3	_____
FT 121 Fire Prevention	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ESHOCC-AAS

61 Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program prepares students for a lucrative career in the wastewater treatment field. Students learn to operate machinery used in plants where urban wastewater is treated for release back into the environment. Classes are generally held at the Clark County Sanitation District facilities. Academic skills emphasizing math, science and human relations are stressed to prepare students to meet challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the fundamentals of waste water treatment and related technologies.
- Demonstrate an understanding of the laws and regulations that apply to waste water treatment.
- Demonstrate an understanding of the various treatment methodologies and technologies applicable to waste water treatment.
- Demonstrate an understanding of pump operation and maintenance for waste water treatment operation.
- Demonstrate knowledge of waste water treatment operations, relevant skills and other core degree requirements adequate to assume entry level supervisory positions in waste water treatment operations.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
ESH 202 Environmental Laws and Regulations	3	_____
ESH 215 Environmental Computer Applications	3	_____
or GIS 109B Introduction to Geographic Information Systems		
ESH 240B Wastewater Treatment I	3	_____
ESH 241B Wastewater Treatment II	3	_____

Continued in next column.

Continued from previous column.

	CR	SEMESTER
ESH 242B Wastewater Treatment III	3	_____
ESH 246B Water/Wastewater Mathematics I	3	_____
ESH 247B Water/Wastewater Mathematics II	3	_____
ESH 248B Water Quality Analysis and Laboratory	4	_____
ESH 250B Pump Operation and Maintenance	3	_____
ESH 251B Current Issues	3	_____
Plus 4 credits from the following:		
BIOL 101 General Biology for Non-Majors	4	_____
CHEM 105 Chemistry, Man and Society	3	_____
CHEM 110 Chemistry for Health Sciences I	4	_____
CHEM 111 Chemistry for Health Sciences II	4	_____
CHEM 121 General Chemistry I	4	_____
CONS 120B Printreading and Specifications	3	_____
EMS 108B Emergency Medical Technician Training	8	_____
ENV 220 Introduction to Ecological Principles	3	_____
ESH 225B Ethics and Legal Issues in Environmental Restoration	3	_____
ESH 230B Radiation Health Physics	3	_____
ESH 235B Asbestos Inspection and Abatement	3	_____
ESH 249B Industrial Pretreatment Programs and Inspection	3	_____
ET 100B Survey of Electronics	3	_____
FT 101 Introduction to Fire Science	3	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ESHWW-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for a lucrative career in the water treatment field. Students learn to maintain and operate water management plants that treat water supplies for urban areas. Classes are generally held at the Clark County Sanitation District. Academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet challenges common in the workplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the fundamentals of water treatment and related technologies.
- Demonstrate an understanding of the laws and regulations that apply to drinking water treatment.
- Demonstrate an understanding of the various treatment methodologies and technologies applicable to drinking water treatment.
- Demonstrate an understanding of pump operation and maintenance for drinking water treatment operation.
- Demonstrate knowledge of water treatment operations, communication skills, and other core degree requirements adequate to assume entry level supervisory positions in water treatment operations.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

tSPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
ESH 202 Environmental Laws and Regulations	3	_____
ESH 215 Environmental Computer Applications	3	_____
or		
GIS 109B Introduction to GIS		
ESH 243B Water Treatment Plant Operations I	3	_____
ESH 244B Water Distribution I	3	_____
ESH 245B Water Treatment Plant Operations II	3	_____
ESH 246B Water/Wastewater Mathematics I	3	_____
ESH 247B Water/Wastewater Mathematics II	3	_____
ESH 248B Water Quality Analysis and Laboratory	4	_____
ESH 250B Pump Operation and Maintenance	3	_____
ESH 251B Current Issues	3	_____
Plus 4 credits from the following:		
BIOL 101 General Biology for Non-Majors	4	_____
CHEM 105 Chemistry, Man and Society	3	_____
CHEM 110 Chemistry for Health Sciences I	4	_____
CHEM 111 Chemistry for Health Sciences II	4	_____
CHEM 121 General Chemistry I	4	_____
CONS 120B Printreading and Specifications	3	_____
EMS 108B Emergency Medical Technician Training	8	_____
ENV 220 Introduction to Ecological Principles	3	_____
ESH 225B Ethics and Legal Issues in Environmental Restoration	3	_____
ESH 230B Radiation Health Physics	3	_____
ESH 235B Asbestos Inspection and Abatement	3	_____
ESH 249B Industrial Pretreatment Programs and Inspection	3	_____
ET 100B Survey of Electronics	3	_____
FT 101 Introduction to Fire Science	3	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____

ASSOCIATE OF APPLIED SCIENCE

60
Total Credits

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. ESHWAT-AAS

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Finance prepares the individual to perform financial services. These include credit collection, transit routing of notes and drafts, receiving and paying out money and functions associated with processing loans.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate the knowledge necessary to handle personal finances.
- Demonstrate the ability to provide basic financial services for others.
- Demonstrate understanding of basic financial concepts.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 124 or above	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
ACC 202 Managerial Accounting	3	_____
ACC 220 Microcomputer Accounting Systems	3	_____
ECON 102 Principles of Microeconomics	3	_____
ECON 103 Principles of Macroeconomics	3	_____
FIN 101 Personal Finance	3	_____
FIN 115 Introduction to Investments	3	_____
IS 101 Introduction to Information Systems	3	_____
MKT 210 Marketing Principles	3	_____
Plus 9 credits from the following:		
BUS 101 Introduction to Business	3	_____
BUS 108 Business Letters and Reports	3	_____
BUS 273 Business Law I	3	_____
ECON 261 Principles of Statistics I	3	_____
MGT 201 Principles of Management	3	_____

FIN-AAS **61**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Fire Technology Management is designed to provide students and career fire service personnel with the necessary education and skills required to enter a career or achieve promotion in a municipal, county or state fire department. The courses follow the Fire and Emergency Services Higher Education (FESHE) curriculum. The course content is designed to meet the National Fire Protection Association’s 1001 Standard for Fire Fighter Professional Qualifications. The elective material is designed to prepare fire-fighters for advancement in the fire service.

This degree does not guarantee employment or promotion but will prepare the student to increase their chances of being hired or promoted. Students may be placed in a physically demanding environment designed to introduce the student to job tasks and skills required to operate in the fire and emergency services.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate preparedness for the Nevada State Fire Marshall’s written test in accordance with the National Fire Protection Association’s Standard 1001 – Firefighter I.
- Demonstrate preparedness for the Nevada State Fire Marshall’s practical skills test in accordance with the National Fire Protection Association’s Standard 1001 – Firefighter I.
- Ability to conduct a basic fire inspection, basic fire cause and origin, hazardous materials awareness, understand the tactics and strategies involved in fire suppression.
- Understand the legal aspects facing fire service personnel.
- Understand the roles of those in Fire Administrative positions.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 107, COM 101	6	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: HMS 130, 135B, 265B, PSC 201, PSY 101, 102, 207, 208, 261 SOC 101, 102, 202, 205, 275	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, CHEM, ENV, GEOG 103, 104, 117, GEOL, PHYS, HHP 123B, 124B	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
FT 101 Principles of Emergency Services	3	_____
FT 105 Fire Behavior and Combustion	3	_____
FT 121 Fire Prevention	3	_____
FT 125 Building Construction for Fire Protection	3	_____
FT 131 Hazardous Materials Chemistry	3	_____
FT 152B Legal Aspects of Emergency Services	3	_____
FT 154B Principles of Fire and Emergency Services Safety and Survival	3	_____
FT 224 Fire Protection Systems	3	_____
Plus 12 credits from the following:		
FT 110 Basic Wildland Firefighting	4	_____
FT 126 Fire Investigation I	3	_____
FT 150 Apparatus and Equipment	3	_____
FT 151 Fire Protection Hydraulics and Water Supply	3	_____
FT 153B Occupational Safety and Health for Emergency Services	3	_____
FT 190 Fire Instructor I	3	_____
FT 191 Introduction to Company Officer	3	_____
FT 226 Fire Investigation II	3	_____
FT 243 Strategy and Tactics	3	_____
FT 291 Fire and Emergency Services Administration	3	_____
FT 298 Seminar in Fire Management	3	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

FTM-AAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for the commercial floral design industry which encompasses private retail shops, wedding chapels, silk floral establishments and major resort hotels. Typical positions in floral establishments include owner/manager, lead designer, assistant designer or salesperson.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Appraise and evaluate the basic tasks of a floral designer in a commercial setting by calculating, estimating and justifying market sheets for ordering product for shop needs, and acting as a consultant for weddings, special events and funerals.
- Assess criteria to select and recommend materials for the construction of floral decor to customer's preference, using industry standards.
- Compose photographic images of floral design.
- Demonstrate math, communication, computer technology skills, and other core supervisory/entry level management skills in the floral industry.

GENERAL EDUCATION REQUIREMENTS (22 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B or above (except MATH 111B, 115B, 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

FSPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
ACC 135B Bookkeeping I or ACC 201 Financial Accounting	3	_____
FLOR 102B Introduction to Floral Design	3	_____
FLOR 106B Permanent Botanicals	3	_____
FLOR 202B Tributes and Traditions	3	_____
FLOR 204B Traditional Weddings	3	_____
FLOR 208B Creativity and Competition	3	_____
FLOR 220B Events and Display	3	_____
FLOR 295B Floral Careers Internship	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 103 Introduction to Small Business Management	3	_____
PHO 170 Beginning Photography	3	_____
Plus 6 credits from the following:		
FLOR 108B Event Balloon Sculptures	1.5	_____
FLOR 115B Mega-Department Practices	3	_____
FLOR 206B Beginning Ikebana	3	_____
FLOR 224B Techniques and Mechanics	1.5	_____
FLOR 225B Color and Product Mix	1.5	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

FLORDT-AAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program is designed to provide quality education to those seeking to begin a career or further their career in the food service industry. The program consists of course work in food and beverage management, culinary arts and general education which enable students to obtain the necessary knowledge and skills to be successful in the work environment.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in the operation of a Restaurant.
- Demonstrate proficiency in food service sanitation and nutrition by passing the prescribed National Restaurant Association exams.
- Learn the basic functions of a professional Kitchen.
- Demonstrate a basic understanding of commercial food and beverage purchasing.
- Demonstrate proficiency in the use and application of food service math.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 115B, 124	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
CUL 110 Basic Cookery	4	_____
FAB 102 Food Service Sanitation II	2	_____
FAB 112 Restaurant Management I	3	_____
FAB 160 Hospitality Purchasing	3	_____
FAB 167 Food Service Nutrition	2	_____
FAB 210 Fundamentals of Food and Beverage Control	3	_____
FAB 230 Menu Planning	3	_____
FAB 272 Liquor and Bar Management	3	_____
FAB 285 Catering Management	3	_____
FAB 295 Work Experience in Food Service	1	_____
HMD 101 Introduction to the Hospitality Industry	3	_____
HMD 235 Hotel, Restaurant and Gaming Law	3	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____

FAB-AAS **64** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program trains people to use digital tools for employment in design and creative production. Although a degree is not necessary for initial employment, students who complete an AAS degree have a good chance for employment that is profitable.

Students will learn concepts and approaches to technology necessary for lifelong learning. This degree is directed toward designing, producing, and assembling digital assets into professional communications and deliverables.

A graphic designer may design identity and collateral materials (like logos, brochures, advertising materials) or layouts for print publications. Both the web designer and the multimedia designer create graphics and presentations (some interactive) targeted viewing on a screen. The animation designer creates both 2D and 3D assets and presentations.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate communication, critical thinking, design, technological and production skills dealing with producing creative work destined for the print, screen, and/or the Web.
- Produce vector and bitmap content and presentations using Adobe software.
- Develop a customized professional portfolio of his or her work.
- Demonstrate basic design, illustration, topography, and layout skills in a particular Concentration.
- Use a variety of techniques and applications to render graphics in 2D and 3D presentations.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

Continued from previous column.

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
GRC 156B Computer Illustration I	3	_____
GRC 183B Electronic Imaging I	3	_____
GRC 294B Portfolio Workshop	3	_____

Select a GRC Concentration from the list below (12 Credits):

FOR ANIMATION DESIGN:

GRC 158 Cartooning	3	_____
GRC 185 Computer Animation I	3	_____
GRC 188 Web Animation and Interactivity I	3	_____
GRC 288B Web Animation and Interactivity II	3	_____

FOR GRAPHIC DESIGN:

GRC 104 Layout and Typography Fundamentals	3	_____
GRC 140 Print Production with InDesign	3	_____
GRC 207 Electronic Design	3	_____
GRC 278B Electronic Prepress	3	_____

FOR MULTIMEDIA DESIGN:

GRC 179 Multimedia Design and Production I	3	_____
GRC 188 Web Animation and Interactivity I	3	_____
GRC 279B Multimedia Design and Production II	3	_____
PHO 214 Videography and Film I	3	_____

FOR WEB DESIGN:

GRC 175B Web Design and Publishing I	3	_____
GRC 188 Web Animation and Interactivity I	3	_____
GRC 275B Web Design and Publishing II	3	_____
GRC 276B Web Design and Publishing III	3	_____

Plus 6 credits or any 2 courses from the following:

ART 101 Drawing I	3	_____
CIT 151 Beginning Web Development	3	_____
CIT 152 Web Script Language Programming	3	_____
PHO 170 Beginning Photography	3	_____
PHO 214 Videography and Film I	3	_____
PHO 220B Video Digital Editing	3	_____

Any course with GRC prefix 3-6 _____

SPECIAL PROGRAM REQUIREMENTS (42 Credits):

	CR	SEMESTER
GRC 101 Introduction to Graphic Communications	3	_____
GRC 103 Introduction to Computer Graphics	3	_____
GRC 107 Design Fundamentals	3	_____
GRC 110 Rendering and Illustration	3	_____
GRC 119 Computer Graphics/Digital Media	3	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

GRC-AAS

67
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Health Information Technology program is an Associate of Applied Science. The program is fully accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) which is located at 233 N. Michigan Ave., Chicago, IL 60601-5800, (312) 233-1131. Upon successful completion of the program, graduates are eligible to apply to the national registry exam for the certification as a Registered Health Information Technician (RHIT). The program is limited entry so students must attend a Health Sciences Orientation and meet with a program advisor. The HIT program combines academic courses on campus with professional practice experiences at clinical affiliate sites. Health information is used in every aspect of health care planning and delivery. A patient's health record contains vitally important information that must be analyzed, coded, stored, and protected. The health record serves as a means of communication among all members of the health care team, including physicians, nurses, laboratory technicians, therapists and many others. The documentation comes from the hospital stay, emergency room visits, outpatient clinic visits, physician's office encounters, nursing home, or home care program. Such documentation assists in ensuring continuity of care and protects the financial and legal interests of the patient, health care facility, and responsible practitioner caring for the patient.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Verify timeliness, completeness, accuracy, and appropriateness of data and data sources.
- Conduct qualitative analysis to ensure documentation in the health record supports the diagnosis, and reflects the progress, clinical findings and discharge status.
- Assist in the facility's billing processes and validate coding accuracy.
- Assign diagnosis and procedure codes using ICD and CPT/HCPCS.
- Abstract records for department indices/databases/registries.

GENERAL EDUCATION REQUIREMENTS (24 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B or above (except MATH 122, 123)	3	_____
SCIENCE: HHP 123B, 124B	5	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: PHIL 102	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101	4	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

SPECIAL PROGRAM REQUIREMENTS (44 Credits):

	CR	SEMESTER
COT 127B Microsoft Office for Offices	3	_____
HIT 105B Healthcare Delivery Systems	2	_____
HIT 106B Healthcare Reimbursement	2	_____
HIT 118B Language of Medicine	3	_____
HIT 119B Introduction to Pharmacology and Laboratory Tests	2	_____
HIT 130B Procedural Terminology	1	_____
HIT 165B Pathophysiology	4	_____
HIT 170B Healthcare Computer Applications	3	_____
HIT 180B Introduction to Health Information Management	2	_____
HIT 184B Introduction to ICD Coding	2	_____
HIT 185B Introduction to CPT Coding	3	_____
HIT 187B Introduction to ICD-PCS Coding	2	_____
HIT 201B Advanced Coding Systems	3	_____
HIT 205B Privacy, Legal, and Ethical Issues in Healthcare	2	_____
HIT 206B Professional Practice Experience I	3	_____
HIT 207B Health Information Management	2	_____
HIT 240B Healthcare Statistics and Research	1	_____
HIT 245B Healthcare Quality Management	2	_____

Plus 2 credits from the following:

HIT 208B Professional Practice Experience II	2	_____
HIT 299B Selected Topics in Health Information Technology	2	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

HIT-AAS

68
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree provides students the opportunity to seek employment in an entry-level supervisory position, or for those already in the hotel industry, an opportunity for professional growth and career advancement.

This program is accredited by the Accreditation Commission for Programs in Hospitality Administration (ACPHA), P.O. Box 400, Oxford, MD 21654, telephone: (410) 226-5527, e-mails: aoc@shore.intercom.net or acpha@atlanticbb.net.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Understand the nature and scope of the hospitality industry.
- Demonstrate proficiency in hotel operations in the areas of front office and housekeeping.
- Demonstrate a proficiency in food service sanitation and operations.
- Understand the various service delivery systems used in the hospitality industry.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 102, 114	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 115B, 124	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
FAB 102 Food Service Sanitation II	2	_____
HMD 101 Introduction to the Hospitality Industry	3	_____
HMD 202 Housekeeping Operations	3	_____
HMD 203 Front-Office Operations	3	_____
HMD 226 Industry Computer Applications for Hospitality and Tourism	3	_____
HMD 235 Hotel, Restaurant and Gaming Law	3	_____
HMD 253 Hospitality Services Management	3	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____
HMD 295 Work Experience in Lodging Operations	1	_____
TCA 180 Hotel, Restaurant and Casino Marketing	3	_____
TCA 201 Hospitality Career Development	3	_____
TCA 221 Hospitality Accounting I	3	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree prepares students for careers in advertising, retail sales and marketing. The program includes a comprehensive exposure to marketing principles and business related issues.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain current marketing, merchandising and retail management theories and how they apply to organizational settings.
- Apply marketing and merchandising strategies to real-life retail settings.
- Explain the characteristics of marketing and merchandising plans used in retail establishments.
- Demonstrate the latest techniques and trends in marketing and merchandising practices.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
BUS 101 Introduction to Business	3	_____
MKT 111 Introduction to Merchandising	3	_____
MKT 127 Introduction to Retailing	3	_____
MKT 132 Sales Management	3	_____
MKT 210 Marketing Principles	3	_____
MKT 211 Introduction to Professional Sales	3	_____
MKT 262 Introduction to Advertising	3	_____
Plus 6 credits from the following:		
MKT 123 Sales Promotion	3	_____
MKT 125 Introduction to Fashion Merchandising	3	_____
MKT 250 Introduction to International Marketing	3	_____
Plus 9 credits from the following:		
BUS 107 Business Speech Communication	3	_____
BUS 273 Business Law I	3	_____
COM 101 Oral Communication	3	_____
ECON 102 Principles of Microeconomics	3	_____
ECON 103 Principles of Macroeconomics	3	_____
ECON 261 Principles of Statistics I	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 103 Introduction to Small Business Management	3	_____
MKT 261 Introduction to Public Relations	3	_____
SOC 225 Media and Society	3	_____

MKT-AAS **61** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Medical Laboratory Technician (MLT) is an important member of the health care team in hospitals, clinics, medical research and teaching centers and is an indispensable participant with physicians in providing critical diagnostic information. The MLT functions as a dependable, ambitious and highly motivated professional capable of handling high stress situations with ease and confidence.

The MLT performs diagnostic laboratory procedures using state-of-the-art instrumentation to aid in the detection, diagnosis and treatment of disease; monitors the standards of accuracy and precision in the performance of tests; performs routine preventive maintenance and troubleshoots instrument problems; and participates in research and evaluation of new procedures.

The Medical Laboratory Technology program is a two year program. It combines academic and laboratory courses on campus with practical experience at clinical affiliates. This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, (847) 939-3597. Students successfully completing the program are eligible to take the National Certification examination.

Upon successful completion of the above, the student may apply to the State of Nevada for the required license as a Medical Technician.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate comprehension of concepts and techniques in all major clinical laboratory disciplines.
- Demonstrate the skills and abilities necessary to secure employment as a medical laboratory technician.
- Demonstrate the knowledge, skills, and abilities to successfully pass the national certification examination.

GENERAL EDUCATION REQUIREMENTS (31 Credits):

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: ENG 102, 114	3-5	_____	CLS 151 Phlebotomy	2	_____
ENGLISH: ENG 100, 101, 113	3-5	_____	CLS 152 Applied Phlebotomy	2	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	CLS 153 Phlebotomy Clinical Practicum	2	_____
MATHEMATICS: MATH 124 or above	3	_____	CLS 161 Urinalysis and Body Fluids	1	_____
SCIENCE: BIOL 189 or 196 and CHEM 110, 111 or CHEM 121, 122	12	_____	CLS 162 Applied Urinalysis and Body Fluids	1	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	CLS 241 Clinical Chemistry I	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	CLS 242 Applied Clinical Chemistry I	2	_____
			CLS 251 Immunology/ Immunoematology I	2	_____
			CLS 252 Applied Immunology/ Immunoematology I	2	_____
			CLS 265 Laboratory Operations I	1	_____
			CLS 271 Clinical Microbiology I	3	_____
			CLS 272 Applied Clinical Microbiology I	2	_____
			CLS 291 Hematology I	2	_____
			CLS 292 Applied Hematology I	2	_____
			CLS 294 Clinical Practicum I	2	_____
			CLS 295 Clinical Practicum II	2	_____
			CLS 296 Clinical Practicum III	4	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

MLTECH-AAS **66** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree provides the academic knowledge and skill competencies needed by paraprofessionals in mental health services, developmental services and closely-related human services. The degree offers the option for a student to prepare as a Direct Support Professional and/or front-line supervisor of Direct Support Professionals. The special program courses in the degree are infused with the Community Support Skill Standards (a set of nationally validated competencies for community human service practitioners) and an established set of ethical guidelines for Direct Support Professionals. The courses are competency based and provide the opportunity for development of on the job skills.

Direct Support Professionals (DSPs) provide guidance and support to people who need help to be self-sufficient. DSPs provide this support to a wide range of individuals including people with physical, psychiatric, or cognitive disabilities or chronic illness; children and youth who are at risk; and families who need assistance in supporting family members. DSPs are found in many human service settings with various job titles, such as Residential Counselor, Employment Specialist, Job Coach, Service Coordinator, Mental Health Technician, Developmental Support Technician and Personal Support Assistant. These jobs share similar requirements and approaches including the ability to teach life skills, provide physical assistance, and to support the empowerment, choices and self-direction of the individual receiving supports. It is estimated that there are over 2 million Americans working in these roles. Job growth in this profession is estimated to be above average in the future.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Qualify or obtain employment in direct support services delivery or supervision for persons with physical and/or mental disabilities.
- Successfully demonstrate the knowledge and skills required of a direct support professional or supervisor in accordance with current professional standards.
- Successfully apply the knowledge, skills, and ethical standards of a direct support professional or supervisor in an applied human services setting.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B, 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL., CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
MHDD 101 Role of the Technician	1	_____
MHDD 105 Conflict Prevention and Response Training	2	_____
MHDD 107 Medication Fundamentals	2	_____
MHDD 109 Introduction to Therapeutic Interventions	2	_____

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	CR	SEMESTER
MHDD 126 Understanding Developmental Disabilities	2	_____
MHDD 127 Positive Behavior Supports	2	_____
MHDD 150 Issues in Substance Abuse	1	_____
MHDD 153 Life Span Development	1	_____
MHDD 154 Advanced Therapeutic Interventions	2	_____
MHDD 160 Understanding Mental Illness	2	_____
MHDD 299 Capstone Project	3	_____
PSY 101 General Psychology	3	_____
PSY 241 Introduction to Abnormal Psychology	3	_____

Plus 9 credits from the following concentration of choice:

FOR MENTAL HEALTH/DEVELOPMENTAL SERVICES:

CPD 117 Introduction to Counseling	3	_____
HMS 130 Human Sexuality	3	_____
MHDD 102 Medical Component	1	_____
MHDD 103 Psychopathology and Developmental Disabilities	1	_____
MHDD 106 Teaching and Active Treatment	1	_____
MHDD 110 Introduction to Disability Services	3	_____
MHDD 130 Teaching Life Skills	3	_____
MHDD 152 Allied Therapies	1	_____
MHDD 210 Autism Spectrum Disorders	3	_____
MHDD 291B Fieldwork Experience	3	_____
MHDD 295 Practicum	3	_____

FOR SUPERVISORY SERVICES:

MGT 201 Principles of Management	3	_____
MGT 212 Leadership and Human Relations	3	_____
MGT 283 Personnel Administration	3	_____
MGT 286B Personnel Interviewing	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MHD-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Registered Nurse is an important member of the health care team; an indispensable participant within the medical community who provides total patient care; and a dependable, responsible, motivated professional capable of handling high stress situations with ease and confidence.

The Registered Nurse provides care using the nursing process; works within the guidelines of the Nevada Nurse Practice Act to give care, support and education to patients so that they can recover and stay well, works in hospitals, nursing homes, rehabilitation centers, home health, community agencies, medical facilities which offer acute and long term care, wellness centers, clinics and drug centers, monitors the physical and mental status of patients; gives medication and records the patients' reactions, symptoms and progress; and directs Practical and Nursing Assistants in a variety of health care settings. There are extensive job opportunities and potential in career advancement for graduates of the degree program.

Graduates of this program are eligible to sit for the NCLEX-RN exam for state licensure. Courses in the two-year degree can be applied toward the requirements for a Bachelor of Science in Nursing at a four year institution. The program has full approval status by the Nevada State Board of Nursing, 2500 West Sahara, Suite 207, Las Vegas, NV 89102, (702) 486-5800, and is accredited by the National League for Nursing Accrediting Commission, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 (404) 975-5000.

A limited entry program; students must attend a health programs orientation and meet with a health programs advisor for additional counseling.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to apply principles of the physiological, psychological, socio-cultural and spiritual concepts when providing safe and competent nursing care for clients at various stages in their life span.
- Demonstrate the ability to apply the nursing process and critical thinking to assist individuals and families to enhance and maintain adaptive behaviors that promote optimal health, quality of life, and death with dignity.
- Demonstrate the ability to empower and support individuals and families through caring behaviors.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: COM 101, 215	3	_____	NURS 101 Introduction to Professional Nursing Practice	6	_____
ENGLISH: ENG 100, 101, 113	3-5	_____	NURS 115 Medical-Surgical Nursing I	6.5	_____
HUMAN RELATIONS: PSY 101	3	_____	NURS 125B Pharmacology for Nursing Practice	2	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____	NURS 208 Professional Topics: Management Concepts and Transition into Professional Practice	2	_____
SCIENCE: BIOL 189, 223, 224, 251	16	_____	NURS 211 Medical-Surgical Nursing II	4.5	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: SOC 101	3	_____	NURS 243 Mental Health Nursing	4.5	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	NURS 247 Maternal-Newborn Nursing	4.5	_____
			NURS 248 Pediatric Nursing	4.5	_____
			NURS 296 Nursing Management and Preceptorship	2.5	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

NUR-AAS

72
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program is designed for practicing License Practical Nurses who wish to prepare to licensure as a professional nurse. The program awards credits for PN program courses and Nevada LPN licensure.

Courses within the two year degree can be applied towards the requirements for a Bachelor of Science in Nursing degree at a four year institution. The program has full approval status by the Nevada State Board of Nursing, 2500 West Sahara, Suite 207, Las Vegas, NV 89102 (702) 486-5800, and is accredited by the National League for Nursing Accrediting Commission, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 (404) 975-5000.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to apply principles of the physiological, psychological, socio-cultural and spiritual concepts when providing safe and competent nursing care for clients at various stages in their life span.
- Demonstrate the ability to apply the nursing process and critical thinking to assist individuals and families to enhance and maintain adaptive behaviors that promote optimal health, quality of life, and death with dignity.
- Demonstrate the ability to empower and support individuals and families through caring behaviors.

GENERAL EDUCATION REQUIREMENTS (35 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: PSY 101	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: BIOL 189, 223, 224, 251	16	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
Practical Nursing Program courses and Nevada LPN Licensure.	8	_____
NURS 125B Pharmacology for Nursing Practice	2	_____
NURS 205 Introduction to Associate Degree Nursing	4.5	_____
NURS 208 Professional Topics: Management Concepts and Transition into Professional Practice	2	_____
NURS 211 Medical-Surgical Nursing II	4.5	_____
NURS 243 Mental Health Nursing	4.5	_____
NURS 247 Maternal-Newborn Nursing	4.5	_____
NURS 248 Pediatric Nursing	4.5	_____
NURS 296 Nursing Management and Preceptorship	2.5	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

NURRN-AAS

72
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Ophthalmic Technology Program prepares graduates to be professional manufacturing and dispensing opticians. The program consists of systematic instruction and experience in all aspects of the work in the profession. The program includes instruction and laboratory training in: contact lens skills, eyewear dispensing skills, lens finishing techniques, lens surfacing techniques, as well as sales techniques, basic business operations and communications. Instruction and practice in low vision aids, physician assisting skills, and ocular prosthetics are also covered.

Graduates of the program are prepared to take the American Board of Opticianry and the National Contact Lens Examiners certification examinations.

Graduates are also prepared to take the Nevada Board of dispensing Opticians licensing examination.

Graduates of the program can gain employment as manufacturing opticians, dispensing opticians, entry level management positions in vision care, as well as open their own independent vision care facility.

A limited entry program; students must attend a health programs orientation and meet with a health programs advisor for additional counseling.

Accrediting Agency: Commission on Opticianry Accreditation, P.O. Box 3073, Merrifield, VA 22116, (703) 940-9134.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to analyze the prescriptive and lifestyle needs of a patient and make appropriate recommendations for optical devices.
- Demonstrate the ability to perform all the daily tasks of a laboratory and dispensing optician in a competent manner.
- Demonstrate the competencies necessary to pass the ABO, NCLE, and Nevada State Board of Dispensing Opticians licensing examinations.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

SPECIAL PROGRAM REQUIREMENTS (46 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 100B or higher (excluding MATH 122, 123)	3	_____
SCIENCE: BIOL 101, BIOL 189 or HHP 123B and 124B Plus 3 or 4 credits from science requirements: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
OPHT 102B Introduction to Contact Lenses	3	_____
OPHT 105B Introduction to Contact Lens Lab	1	_____
OPHT 112B Anatomy and Physiology of the Eye and Related Structures	3	_____
OPHT 121B Ophthalmic Optics I	5	_____
OPHT 123B Ophthalmic Optics II	5	_____
OPHT 155B Geometric Optics	3	_____
OPHT 201B Ophthalmic Dispensing I	5	_____
OPHT 202B Contact Lenses I	3	_____
OPHT 203B Contact Lenses II	1	_____
OPHT 220B Theory of Refractometry	3	_____
OPHT 223B Ophthalmic Dispensing II	5	_____
OPHT 232B Opticianry Management Sales	3	_____
OPHT 260B Introduction to Low Vision	1	_____
OPHT 291B Clinical Applications III	3	_____
OPHT 299B Certificate Review	2	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPHT-AAS

73
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree program provides a strong theoretical background and applied practices needed to manage a landscape site utilizing best management practices. In addition it affords students the opportunity to concentrate in one of four specialty fields or to design a program of study that meets their individual interests or occupational needs.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge and ability to select landscape ornamentals that are well suited to site conditions, limitations and plant use.
- For Floral Design students demonstrate knowledge and skills required to create floral arrangements to meet client requirements.
- For Landscape Construction/Contracting students demonstrate knowledge and skills to interpret plans, operate equipment and complete landscape installations at an intermediate level.
- For Landscape Design students demonstrate knowledge and skills required to develop and create landscape designs and details to meet client requirements at an intermediate level.
- For Landscape Management students demonstrate knowledge and skills required to evaluate site conditions, evaluate plant health and implement best management practices to meet client requirements at an intermediate level.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 215	3	_____
ENGLISH: ENG 107	3	_____
HUMAN RELATIONS: ALS 101, HIST 210, 247, MGT 100B, 283, PHIL 135, PSC 201, PSY101, 102	3	_____
MATHEMATICS: MATH 116 or above (except MATH 122, 123)	3	_____
SCIENCE: BIOL 100, 120, 189, 196, 197, 202, CHEM 103, 105, 106, 110, 111, 121, 122	6-8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (42 Credits):

	CR	SEMESTER
IS 101 Introduction to Information Management Systems	3	_____
LAND 257 Ornamental Plant Materials	3	_____
LAND 258 Xeric Plant Materials	3	_____
MGT 101 Small Business Management	3	_____
or ACC 201 Financial Accounting		
OH 100B Horticulture Fundamentals	1	_____
OH 105 Soils and Plant Nutrition	3	_____
OH 110B Plant Science	3	_____
OH 295B Horticulture Careers Internship	3	_____
or FLOR 295B Floral Careers Internship		

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

Continued from previous column.

	CR	SEMESTER
FOR FLORAL DESIGN:		
FLOR 102B Introduction to Floral Design	3	_____
FLOR 106B Permanent Botanicals	3	_____
FLOR 202B Tributes and Traditions	3	_____
FLOR 204B Traditional Weddings	3	_____
FLOR 206B Beginning Ikebana	3	_____
FLOR 208B Creativity and Competition	3	_____
FLOR 220B Events and Display	3	_____
FOR LANDSCAPE CONSTRUCTION/CONTRACTING:		
LAND 180 Fundamentals of Landscape Architectural Design I	3	_____
OH 107B Landscape Materials	3	_____
OH 114B Irrigation Systems	3	_____
OH 150B Landscape Equipment Survey	2	_____
OH 207 Landscape Construction	4	_____
OH 211B Irrigation Management	2	_____
OH 212B Landscape Budgeting and Estimating	3	_____
FOR LANDSCAPE DESIGN:		
ADT 100B Introduction to Drafting Theory	3	_____
LAND 180 Fundamentals of Landscape Architectural Design I	3	_____
LAND 182 Fundamentals of Landscape Architectural Design II	3	_____
LAND 241 Grading and Drainage	3	_____
LAND 242 Irrigation	3	_____
LAND 262 CAD for Landscape Architecture	3	_____
OH 107B Landscape Materials	3	_____
FOR LANDSCAPE MANAGEMENT:		
OH 111 Turfgrass Fundamentals	3	_____
OH 112 Turfgrass Management	3	_____
OH 114B Irrigation Systems	3	_____
OH 140B Annual Color Concepts	2	_____
OH 203 Introduction to Plant Pathology and Landscape Pests	3	_____
OH 209 Arboriculture	4	_____
OH 211B Irrigation Management	2	_____
OH 223 Integrated Pest Management	3	_____

OH-AAS **67** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associates of Applied Science Degree in Paralegal Studies is a program of study which qualifies its graduates to be employed in law and business related occupations, including private law firms, corporate departments and government entities. Substantive law is combined with thorough preparation in legal procedures, research methodology and practical knowledge. Elective course offerings will permit students to specialize in particular areas of interest. The Paralegal Studies Program provides the foundation for students to think critically and act ethically in accordance with the local and national rules of professional conduct. Graduates of this program will be prepared to perform high quality legal work under the direction of an attorney. The program encourages graduates to continue educational pursuits and seek community service opportunities.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate ability to manage cases and draft legal documents by applying written skills and knowledge of legal procedures in civil litigation and other substantive areas of law.
- Identify ethical issues and be able to apply the rules of professional conduct through synthesis and analysis.
- Demonstrate knowledge of research methodology by applying critical thinking initiatives to various information formats including computerized and traditional library research.
- Proficient use of word processing software and ability to identify and adapt to different types of law office technology and computer applications.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (38 Credits):

	CR	SEMESTER			CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____	IS 101	Introduction to Information Systems	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____	LAW 101	Fundamentals of Law I	3	_____
HUMAN RELATIONS: HIST 105, 106, 107, 150, 151, 210, 247, 260, PSC 201, PSY, SOC	3	_____	LAW 231	Civil Procedure	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____	LAW 234	Civil Procedure II	3	_____
SCIENCE: AST, BIOL, CHEM, ENV, GEOG 103, 104, 117, GEOL, PHYS	6	_____	LAW 253	Law Office Management	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, THTR, WMST 113	3	_____	LAW 259	Legal Writing	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	LAW 261	Legal Research I	4	_____
			LAW 262	Legal Research II	4	_____
			LAW 263	Ethics	3	_____
			Plus 9 credits from the following:			
			LAW 204	Torts	3	_____
			LAW 205	Contracts	3	_____
			LAW 232	Criminal Procedure	3	_____
			LAW 250	Administrative Law	3	_____
			LAW 251	Bankruptcy	3	_____
			LAW 252	Family Law	3	_____
			LAW 255	Probate Procedures	3	_____
			LAW 258	Constitutional Law	3	_____
			LAW 264	Civil Evidence	3	_____
			LAW 295	Supervised Field Experience	3	_____
			RE 103	Real Estate Law and Practice	3	_____

ASSOCIATE OF APPLIED SCIENCE

LAW-AAS **63** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The objective of this degree is to train students with the necessary cognitive, psychomotor, and affective behaviors to provide advanced life support in the prehospital setting and to provide the necessary coursework to be licensed in the State of Nevada and nationally certified. This limited entry program offers a comprehensive and in-depth study of advanced life support skills which include pharmacology, advanced airway management procedures and skills, ECG interpretation and electrical therapy. Associate degree recipients may see improved opportunity for managerial, clinical or educational advancement after sufficient field experience is obtained. The Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee of Educational Programs for the Emergency Medical Services Professions (CoA-EMSP).

Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate competencies necessary to pass the National Registry certification cognitive and psychomotor examination.
- Demonstrate proficiency with all technical skills as relative to providing emergency medical care and transportation to critical and emergent patients as necessary to successfully complete all aspects of the field internship.
- Demonstrate the ability to understand, apply, and evaluate the clinical information necessary for managing and transporting acute medical and traumatic patients as relative to the role of an entry-level Paramedic.
- Demonstrate professional attitudes and ethical behaviors consistent with the expectations of area employers and the local, medical community.
- Demonstrate the skills and abilities to seek opportunities for managerial, clinical, or educational advancement after sufficient field experience is obtained.

GENERAL EDUCATION REQUIREMENTS (24 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B or above (except MATH 122, 123)	3	_____
SCIENCE: HHP 123B, 124B	5	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101	4-6	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

	CR	SEMESTER
EMS 125B Pharmacology for Paramedics	3	_____
EMS 127B Paramedic Clinical Practice I	2	_____
EMS 129B Paramedic Fundamentals	3	_____
EMS 130B Paramedic Assessment I	1	_____
EMS 145B Essentials of Paramedic Medicine	3	_____
EMS 165B Pathophysiology for Paramedics	3	_____
EMS 166B Paramedic Technology	4	_____
EMS 167B Paramedic Clinical Practice II	2	_____
EMS 168B Electrophysiology/ Electrocardiography	3	_____
EMS 169B Advanced Cardiac Life Support (ACLS)	1	_____
EMS 171B Prehospital Trauma Life Support (PHTLS)	1	_____
EMS 172B Vehicle Extrication for Paramedics	2	_____
EMS 173B Paramedic Field Internship	3	_____
EMS 176B Pediatrics for Paramedics	4	_____
EMS 185B Advanced Emergency Care	3	_____
EMS 202B Advanced ECG Interpretation	1	_____
EMS 230B Paramedic Assessment II	1	_____
HIT 117B Medical Terminology I	1	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

EMS-AAS

65
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This degree is a quality, professionally oriented program for students wishing to enter and/or advance in the field of baking and pastry arts. Students are taught to master the fundamentals and techniques of baking and pastry arts with emphasis on hands-on preparation of breads, cakes, pastries, desserts, chocolate and sugar art.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in food service sanitation and nutrition.
- Demonstrate basic cooking skills including product identification, knife skills, cold food production and cooking skills.
- Demonstrate basic baking skills including production of breads, quick breads, puff pastry, pies, and additional baking skills.
- Produce a variety of decorated restaurant cakes.
- Demonstrate plating techniques for individual restaurant hot and cold dessert preparations.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (45 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 115B, 124	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
CUL 110 Basic Cookery	4	_____
CUL 125 Principles of Baking	3	_____
CUL 135 Breads of the World	3	_____
CUL 175 Cake Design	3	_____
CUL 215 Plated Desserts	3	_____
CUL 225 Advanced Baking	3	_____
CUL 230 Pastry Arts	3	_____
CUL 255B Retail Bakery Management	3	_____
CUL 260 Introduction to Chocolate	3	_____
CUL 265 Introduction to Sugar Arts	3	_____
CUL 280B Principles of Quantity Baking	3	_____
CUL 295 Work Experience in Culinary Arts	1	_____
FAB 102 Food Service Sanitation II	2	_____
FAB 160 Hospitality Purchasing	3	_____
FAB 167 Food Service Nutrition	2	_____
HMD 101 Introduction to the Hospitality Industry	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CULPAS-AAS

70
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Photography program offers instruction in commercial photographic skills and creative photographic processes. Beginning and intermediate photographic processes and skills are addressed. Advanced instruction in photographic lighting, photographic commercial illustration, photojournalism, color lab technologies and portraiture is provided.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate mastery of film and digital camera systems both inside and outside the studio to produce commercially viable images.
- Use supplemental lighting systems and controls to make effective images.
- Understand and produce commercial images in the areas of Portraiture, Weddings, Sports, Editorial, Product, Forensic, and Photojournalism.
- Process images using Photoshop, and produce prints using digital printers.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B or above	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (40 Credits):

	CR	SEMESTER
GRC 103 Introduction to Computer Graphics	3	_____
PHO 170 Beginning Photography	3	_____
PHO 175 Intermediate Photography	3	_____
PHO 195 Photographic Lighting	4	_____
PHO 208B Introduction to Large Format Photography	3	_____
PHO 225 Photographic Commercial/Illustration I	4	_____
PHO 235 Photographic Portraiture I	4	_____
PHO 240B Digital Photographic Imaging	3	_____
PHO 260B Photographic Business Practices	3	_____
Plus 10 credits from the following:		
PHO or up to 6 credits from GRC	10	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PHOTO-AAS

65
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The CSN Videography and Film Program is a hands-on digital program that stresses traditional film grammar and the creative documentary. Courses address basic and intermediate film making techniques using digital video equipment. Other topics include cameras usage, production planning, script writing, lighting, directing and digital editing with commercial applications. With the AAS degree, students can choose a path leading them to either film school matriculation or directly into the world of videographic movie making.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Students will operate a digital camera and light meter and apply concepts of photographic composition and creative expression to pictures.
- Students will create shot lists to shoot basic video sequences, operate a video camera and digital editing equipment, and assemble basic sequences into short movies.
- Students will develop creative story concepts and script ideas and create professional standard scripts.
- Identify story elements, script, produce, light, direct and edit a short documentary movie.
- Develop a professional portfolio and prepare for further academic work.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 115B, 124	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
PHO 150B Movies and Media	3	_____
PHO 151B Film Directing Styles	3	_____
PHO 170 Beginning Photography	3	_____
PHO 214 Videography and Film I	3	_____
PHO 216 Videography and Film II	3	_____
PHO 218B Film Screenwriting I	3	_____
PHO 220B Video Digital Editing	3	_____
PHO 223B Documentary Film Production I	3	_____
PHO 244B Lighting for Video and Film	3	_____
PHO 290B Video Portfolio	3	_____
Plus 9 credits from the following:		
PHO 152B World Cinema	3	_____
PHO 153B Independent Filmmaking	3	_____
PHO 157B Cinematography I	3	_____
PHO 215 Rock Video Production	3	_____
PHO 219B Film Screenwriting II	3	_____
PHO 221B Advanced Digital Editing	3	_____
PHO 224B Final Cut Pro Bootcamp	1	_____
PHO 226B Documentary Film Production II	3	_____
PHO 227B DVD Studio Bootcamp	1	_____
PHO 228B Motion Bootcamp	1	_____
PHO 245B Video Lighting and Grip	3	_____
PHO 257B Cinematography II	3	_____
THTR 105 Introduction to Acting I	3	_____
or Any course with GRC prefix		

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. PHOTVIDAAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Upon successful completion of the program, students will receive the AAS degree in Physical Therapist Assistant. This entitles the graduate to take the national licensure examination. Successful passing of this examination and completion of the state licensure requirements will allow the graduate to function as a licensed physical therapist assistant (PTA). The program integrates classroom and laboratory experiences into a structurally sound curriculum that develops the competencies required to function as a safe, ethical and competent PTA. Students are required to complete three full time clinical education affiliation experiences in hospitals and clinics affiliated with the program. Requirements for participation in these clinical education experiences include having: 1) current CPR and First Aid cards; 2) a current personal health insurance policy; 3) a yearly negative TB test; 4) the appropriate immunizations; 5) a satisfactory physical examination; and 6) an appropriate drug and alcohol screen. The program is a limited entry program and students considering applying to the program MUST attend a health programs orientation and meet with a health programs advisor for additional counseling. The program is accredited by the Commission on Accreditation in Physical Therapy Education which is located at 1111 North Fairfax St., Alexandria, VA 22314, (800) 999-2782.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate competencies necessary to successfully complete the national licensure examination.
- Demonstrate the skills and abilities necessary for employment as a PTA.
- Demonstrate competencies necessary in clinical settings.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: PT 122	3	_____
MATHEMATICS: MATH 116, 120, 124 or above	3	_____
SCIENCE: HHP 123B, 124B and PT 105 or BIOL 223, 224 and PT 105	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: PSY 101, 102, 233, 241, 261, PHIL 102, 244	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (47 Credits):

	CR	SEMESTER
PT 100 Introduction to Physical Therapy	3	_____
PT 110 Principles of Kinesiology	2	_____
PT 111 Problems in Kinesiology	2	_____
PT 117 Fundamental Principles for the Physical Therapist Assistant	2	_____
PT 118 Fundamental Procedures for the Physical Therapist Assistant	2	_____
PT 120 Observation and Measurement Principles for the Physical Therapist Assistant	2	_____
PT 121 Observation and Measurement Procedures	2	_____
PT 125 Principles of Physical Agents	2	_____
PT 126 Physical Agent Procedures and Practices	2	_____
PT 130 Administration in Physical Therapy	2	_____
PT 134 Clinical Affiliation I	2	_____
PT 225 Therapeutic Principles for Musculoskeletal Pathologies	3	_____
PT 226 Therapeutic Procedures for Musculoskeletal Pathologies	2	_____
PT 238 Pathophysiology I	3	_____
PT 240 Orthotic and Prosthetic Considerations in Patient Care	1	_____
PT 244 Clinical Affiliation II	2	_____
PT 248 Pathophysiology II	3	_____
PT 250 Therapeutic Principles for Cardiopulmonary Pathologies	2	_____
PT 251 Therapeutic Procedures for Cardiopulmonary Pathologies	1	_____
PT 254 Therapeutic Principles for Neuromuscular Pathologies	3	_____
PT 255 Therapeutic Procedures for Neuromuscular Pathologies	2	_____
PT 256 Clinical Affiliation III	2	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

PT-AAS **72**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Radiation Therapy Associate of Applied Science degree program prepares graduates to work with the radiation oncologist in delivering daily doses of ionizing radiation for cancer treatment. Graduates are eligible to sit for the National exam for the American Registry of Radiologic Technologist Certification in Radiation Therapy.

A limited entry program; students must attend a health programs orientation and meet with the health programs advisor for additional counseling.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to pass the ARRT national accreditation examination.
- Demonstrate basic knowledge of what cancer is and how cancer is treated.
- Demonstrate competency in the operation of linear accelerator and performance of emergency procedures.
- Demonstrate the ability to pursue opportunities in management after sufficient clinical experience has been earned.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B, 116 or above (except MATH 122, 123)	3	_____
SCIENCE: BIOL 223, 224	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (55 Credits):

	CR	SEMESTER
EGG 131 Technical Physics or Physics with a lab	4	_____
RDTP 101B Introduction to Radiation Therapy	2	_____

Continued in next column.

This is a limited-entry program. Some of these courses are program prerequisites and **MUST** be completed before a student is considered eligible for entry into the Program. Students **MUST** attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. RADTHR-AAS

Continued from previous column.

	CR	SEMESTER
RDTP 102B Methodologies I	2	_____
RDTP 103B Introduction to Oncology	1	_____
RDTP 105B Principles and Practice of Radiation Therapy	2	_____
RDTP 115B Caring for the Patient at the End of Life	1	_____
RDTP 125B Radiographic Process	2	_____
RDTP 150B Introduction to Radiation Physics	2	_____
RDTP 180B Radiobiology	3	_____
RDTP 202B Radiotherapy Physics	3	_____
RDTP 210B Treatment Planning I	3	_____
RDTP 211B Radiographic Analysis	2	_____
RDTP 212B Cross Sectional, Topographic and Radiological Anatomy	2	_____
RDTP 213B Radiation Oncology	3	_____
RDTP 214B Methodologies II	2	_____
RDTP 215B Treatment Planning II	3	_____
RDTP 216B Methodologies III	2	_____
RDTP 219B Advanced Radiation Therapy Techniques	2	_____
RDTP 220B Treatment Planning Lab	1	_____
RDTP 221B Ethics/Law/Professionalism	2	_____
RDTP 229B Radiation Therapy Board Review	1	_____
RDTP 230B Clinical Applications I	1	_____
RDTP 231B Clinical Applications II	1	_____
RDTP 232B Clinical Practicum III	3	_____
RDTP 233B Clinical Practicum IV	1	_____
RDTP 234B Clinical Practicum V	4	_____

82
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Real Estate provides the graduate with knowledge and skills to make intelligent decisions in the acquisition, ownership and disposition of real estate. The degree provides entry-level proficiency for real estate salesmen, brokers, property managers and appraisers. The program also provides enrichment for escrow officers, loan officers, building contractors and land developers.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain real estate listing practices and how they apply to the real estate market in general.
- Apply negotiation strategies to real-life professional situations involving real estate transactions.
- Explain the purpose of a standard real estate appraisal and the practices by which it is used.
- Demonstrate ability to complete real estate transactions in accordance with local, state, and Federal guidelines.
- Demonstrate ability to obtain an official real estate license required to practice in the capacity of real estate agent.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
BUS 101 Introduction to Business	3	_____
FT 125 Building Construction for Fire Protection	3	_____
IS 101 Introduction to Information Systems	3	_____
MKT 210 or RE 102B Marketing Principles Real Estate Math	3	_____
RE 101 Real Estate Principles	3	_____
RE 103 Real Estate Law and Practice	3	_____
RE 199 Real Estate Investments	3	_____
RE 201B Real Estate Brokerage	3	_____
RE 202 Real Estate Financing and Insurance	3	_____
RE 203B Tax Aspects of Real Property Transactions	3	_____
RE 205B Real Property Management	3	_____
RE 206 Real Estate Appraising	3	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

RE-AAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Surgical Technologist functions as a member of the surgical team anticipating the needs of the surgeon, passing instruments and providing sterile items in an efficient manner. This program provides graduates with the knowledge and technical skills to obtain entry level employment in hospitals, outpatient surgery centers, clinics, urgent care facilities, and private surgeon's offices. Students receive a balanced education in both theory and clinical practice.

The Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA). Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the highest level of surgical conscience in the operating room.
- Demonstrate the ability to function as part of the health care profession.
- Demonstrate entry level competencies necessary for employment.
- Demonstrate competencies necessary to prepare for the Surgical Technology National Certifying Examination.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

SPECIAL PROGRAM REQUIREMENTS (34.5 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____	CLS 125B Microbiology for Surgical Technicians	2	_____
ENGLISH: ENG 100, 101, 113	3-5	_____	CLS 126B Applied Microbiology for Surgical Technicians	1	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	HIT 117B Medical Terminology I	1	_____
MATHEMATICS: MATH 104B, 120 or above (except MATH 122, 123)	3	_____	SRGT 101B Introduction to Surgery Technology	1	_____
SCIENCE: BIOL 223, 224	8	_____	SRGT 103B Pharmacology for the Surgical Technologist	2	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	SRGT 105B Surgical Interventions I	5	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	SRGT 106B Surgical Fundamentals I	3	_____
			SRGT 108B Central Services Practicum	0.5	_____
			SRGT 114B Principles and Practices of Surgical Technology I	3	_____
			SRGT 204B Principles and Practices of Surgical Technology II	3	_____
			SRGT 205B Surgical Interventions II	5	_____
			SRGT 206B Surgical Fundamentals II	3	_____
			SRGT 207B Clinical Practicum I	3	_____
			SRGT 210B Clinical Practicum II	2	_____

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

SURG-AAS

61.5
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Tourism, Convention and Event Planning degree is designed to provide exciting career opportunities, and produce professionals who want to work in the Tourism, Convention and Event Planning industries.

Students will be prepared to enter management training positions and, for those presently employed, to assume managerial responsibility.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the criteria of different types of events and how they relate to tourism in a project.
- Create a meeting/event from inception to completion using the components of tourism.
- Demonstrate good oral and written communication skills in working with clients, colleagues and vendors around the world.
- Enhance customer service and relationship skills in a multicultural and global society.

GENERAL EDUCATION REQUIREMENTS (22 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 104B, 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
FAB 285 Catering Management	3	_____
HMD 101 Introduction to the Hospitality Industry	3	_____
TCA 110 Introduction to the Convention Industry	3	_____
TCA 141 Travel and Tourism I	3	_____
TCA 188 Special Events Planning	3	_____
TCA 241 Travel and Tourism II	3	_____
TCA 251 Tourism and Convention Externship	3	_____
TCA 289 Introduction to Corporate Meetings and Events	3	_____
Plus 15 credits from the following:		
TCA 100B Concierge Management - Business Operations and Customer Service	3	_____
TCA 101B Concierge Software Applications and Operations	3	_____
TCA 183 Conference and Convention Planning	3	_____
TCA 190 Introduction to Destination Marketing	3	_____
TCA 200 Airlines Reservations	3	_____
TCA 222 Wedding Planning	3	_____
TCA 225 Introduction to International Tourism	3	_____
TCA 276 Introduction to Trade Show Operations	3	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. TRVTCEPAAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Veterinary Technology (VETT) prepares students with knowledge and skills necessary to provide general veterinary nursing care and technical assistance in the varied disciplines found in the practice of veterinary medicine and surgery. These include nurse anesthetist, operating room technician, radiology technician, dental hygienist, medical laboratory technician, as well as clinical and practice management. The program is recognized by the Nevada State Board of Veterinary Medical Examiners and is fully accredited by the American Veterinary Medical Association (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA), 1931 N. Meacham Rd., Suite 100, Schaumburg, IL 60173, (800) 248-2862. Students that complete the program are qualified to sit for state and national licensing examinations and enter into practice as a licensed veterinary technician. The Veterinary Technology Program has entered into a unique agreement with the Western Veterinary Conference that allows educational opportunities to augment the student's learning experience. This agreement also makes available nationally and internationally recognized Doctors of Veterinary Medicine that act as visiting instructors in many disciplines.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate competencies necessary to pass the national and state board examinations for veterinary technicians.
- Demonstrate entry level competency as a veterinary technician.
- Demonstrate skills and abilities to pursue managerial opportunities after obtaining sufficient clinical experience.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

SPECIAL PROGRAM REQUIREMENTS (47 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____	VETT 101B Introduction to Animal Health Technology	1	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____	VETT 105B Veterinary Medical Terminology	1	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	VETT 110B Clinical Anatomy and Physiology I	4	_____
MATHEMATICS: MATH 104B, 116, 120 or above (except MATH 122, 123)	3	_____	VETT 112B Clinical Anatomy and Physiology II	4	_____
SCIENCE: BIOL 189, 251	8	_____	VETT 125B Veterinary Office and Clinical Procedures	2	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	VETT 127B Basic Animal Nursing	4	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	VETT 203B Veterinary Clinical/ General Pathology	4	_____
			VETT 205B Diagnostic Imaging	2	_____
			VETT 208B Lab Animal Science and Exotics	2	_____
			VETT 209B Parasitology	1	_____
			VETT 211B Animal Nutrition	2	_____
			VETT 225B Pharmacology and Toxicology	2	_____
			VETT 227B Advanced Animal Nursing	4	_____
			VETT 230B Principles of Asepsis	1	_____
			VETT 235B Surgical, Anesthesia and Dental Procedures	4	_____
			VETT 240B Large Animal Procedures	2	_____
			VETT 250B Critical Care/ER	3	_____
			VETT 260B Directed Clinical Practice I	2	_____
			VETT 265B Directed Clinical Practice II	2	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

VETT-AAS

74
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE



ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science – AWS Advanced Level Welder Emphasis provides students with the skills and knowledge necessary for successful employment as advanced level welders in welding and related metal working industries.

A continuation of the COA requirements, students will receive additional instruction in advanced SMAW and GTAW, pipe welding, welding codes and fabrication.

Upon completion of the AAS degree requirements, students may certify as AWS Advanced Level Welders.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proper safety practices during welding operations.
- Read and interpret blueprints.
- Cut, prepare and fabricate parts from blueprints and drawings.
- Set-up, maintain and perform minor repairs to welding and associated equipment.
- Perform satisfactory welds in all positions.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 120 or above (except MATH 122, 123)	3	_____
SCIENCE: AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

	CR	SEMESTER
IS 101 Introduction to Information Systems	3	_____
MT 102B Fundamentals of Electricity	4	_____
WELD 115B Welding Inspection and Testing Principles	3	_____
WELD 131B Blueprint Reading, Layout, and Sketching	3	_____
WELD 132B Oxy/Fuel, Plasma, and Carbon Arc-Air Cutting Operations	2	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (TIG)	4	_____
WELD 135B GMAW (Mig)	2	_____
WELD 137B FCAW (Flux Core)	2	_____
WELD 154B D1.1 Structural Welding Code	3	_____
WELD 214B Fabrication Layout	3	_____
WELD 218B Pipe Welding Procedures	4	_____
WELD 240B Advanced GTAW	4	_____

ASSOCIATE OF APPLIED SCIENCE

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. WELDADVASS

66
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



CERTIFICATE OF ACHIEVEMENT

The Air Conditioning Technology Program is an 18-month course of study that prepares students to install, maintain, service, troubleshoot and repair residential heating and cooling systems. Additionally, this program includes commercial refrigeration, allowing the student to learn how to maintain, troubleshoot and repair walk-in freezers, ice machines, ice cream machines and other related machinery. Instruction includes classroom, laboratory and actual in-the-field hands-on course work.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Perform the basic tasks of a Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technician in a residential and light commercial environment.
- Read and interpret electrical schematics; troubleshoot and diagnose mechanical and electrical problems using methods and equipment appropriate to this industry.
- Utilize currently accepted EPA rules, techniques, and regulations in the performance of HVAC/R duties; observe proper safety practices when working with high- and low-voltage electricity, and when working with refrigerants under pressure.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

	CR	SEMESTER
AC 102B Introduction to HVAC Electrical Theory and Application	5	_____
AC 103B Introduction to HVAC Mechanical Theory and Application	5	_____
AC 106B Residential Gas Heating	5	_____
AC 110B Intermediate HVAC Electrical Theory and Application	5	_____
AC 111B Heat Pumps	5	_____
AC 115B Troubleshooting	5	_____
AC 200B Commercial Refrigeration I	5	_____

Plus 6 credits from the following

AC 114B Heat Load and Duct Design	5	_____
AC 116B Copper Fundamentals	1	_____
AC 119B Professionals in Customer Service	1.5	_____
AC 120B Air Conditioning Duct Work Fabrication	3	_____
AC 202B Commercial Refrigeration II	5	_____
AC 210B Boiler Operation and Maintenance	3	_____
AC 221B Gas Heat Pump Technology I	5	_____
CADD 100 Introduction to Computer Aided Drafting	3	_____
CONS 120B Printreading and Specifications	3	_____
IS 101 Introduction to Information Systems	3	_____

Computation included in AC 102B

Human Relations included AC 103B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

AC-CT

44
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for entry level careers as maintenance and light repair technicians. Students completing this Certificate will be able to repair battery, starting, charging and electrical system malfunctions, brake, steering, suspension and air conditioning systems, and perform engine mechanical diagnosis and maintenance related engine service. Students will be knowledgeable and proficient in safe operating procedures in the lab, in the use of hand and power tools, DVOM's scan tools, electronic service information systems, and in general knowledge of the automotive industry. Students will be knowledgeable in special maintenance techniques relating to alternative fueled and hybrid electric vehicles. Students will also be qualified to obtain a Nevada Class 1G smog inspector licensure.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- The student will understand, identify and implement safe working procedures and successfully pass the SP/2 examinations.
- The student will obtain a Nevada Class 1G smog certification.
- The student will successfully pass the ASE/NATEF End of Program (EOP) exams or the ASE Certification exams in the following areas: Electrical, Engine Repair, Brakes, Suspension, Heating and Air Conditioning.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (31 Credits):

	CR	SEMESTER
AUTO 105B Automotive Maintenance I	4	_____
AUTO 115B Automotive Electricity and Electronics I	4	_____
AUTO 117B Advanced Automotive Electronics	4	_____
AUTO 136B Engine Repair	5	_____
AUTO 145B Automotive Brakes	4	_____
AUTO 155B Steering and Suspension	4	_____
AUTO 165B Automotive Heating and Air Conditioning	4	_____
AUTO 240B Nevada 1G Emission Inspection Preparation	2	_____

Computation included in AUTO 115B

Human Relations included in AUTO 115B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. AUTOMAINCT

34
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This Certificate program prepares students for entry level careers as engine performance diagnostic technicians. Completion will prepare the student to be knowledgeable and proficient in safe operational procedures, use of hand and power tools, and use of lab and advanced diagnostic equipment including DVOM's, scan tools, digital storage oscilloscopes, electronic service information, as well as having a basic knowledge of the automotive industry as a whole. Students will perform diagnosis and repair of electrical systems including battery, starting and charging; engine related service procedures, driveability diagnosis, and diagnosis of vehicle computer network systems and body control computers. Student will be knowledgeable in alternative fueled vehicle service techniques as related to the driveability area. Students will also be prepared to obtain a State of Nevada Class 1G smog inspector license.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- The student will understand, identify and implement safe working procedures.
- The student will obtain a Nevada Class 1G smog certification.
- The student will successfully pass the ASE/NATEF End of Program (EOP) exams or the ASE Certification exams in the following areas: Electrical, Engine Repair, Engine Performance.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (31 Credits):

	CR	SEMESTER
AUTO 105B Automotive Maintenance I	4	_____
AUTO 115B Automotive Electricity and Electronics I	4	_____
AUTO 117B Advanced Automotive Electronics	4	_____
AUTO 136B Engine Repair	5	_____
AUTO 225B Engine Performance I	4	_____
AUTO 227B Engine Performance II	4	_____
AUTO 235B Engine Performance III	4	_____
AUTO 240B Nevada 1G Emission Inspection Preparation	2	_____

Computation included in AUTO 115B

Human Relations included in AUTO 115B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. AUTODIAGCT

34
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for entry level careers as heavy-line repair technicians. Students completing this Certificate will be able to diagnose, remove, disassemble, repair and/or replace and reassemble manual and automatic transmissions, transaxles, differential, clutches, transfer and axle units. Additionally, students will be able to perform engine mechanical diagnosis, disassembly/reassembly and other engine related heavy service. Students will be knowledgeable and proficient in safe operating procedures in the lab, in the use of hand and power tools, DVOM's, scan tools, electronic service information systems, and in general knowledge of automotive industry.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- The student will understand, identify and implement safe working procedures and successfully pass the SP/2 examinations.
- The student will successfully pass the ASE/NATEF End of Program (EOP) exams or the ASE Certification exams in the following areas: Electrical, Engine Repair, Manual Transmissions, Automatic Transmissions.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
AUTO 105B Automotive Maintenance I	4	_____
AUTO 115B Automotive Electricity and Electronics I	4	_____
AUTO 117B Advanced Automotive Electronics	4	_____
AUTO 136B Engine Repair	5	_____
AUTO 205B Manual Drivetrain and Axles	4	_____
AUTO 216B Automatic Transmissions	5	_____
AUTO 245B Powertrain Removal and Replacement	4	_____

Computation included in AUTO 115B

Human Relations included in AUTO 115B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. AUTOHVYLCT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Bookkeeping provides students with the necessary skills for entry level positions such as accounts receivable or payable clerk, general secretary/bookkeeper, part-time bookkeeper and payroll clerk.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the skills necessary to obtain employment in the bookkeeping field.
- Demonstrate computer knowledge related to the most popular software in accounting.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ACC 135B Bookkeeping I	3	_____
ACC 201 Financial Accounting	3	_____
ACC 220 Microcomputer Accounting Systems	3	_____
BUS 101 Introduction to Business	3	_____
BUS 106B Business English	3	_____
or		
BUS 108 Business Letters and Reports		
BUS 109B Business Mathematics	3	_____
COT 101B Computer Keyboarding I	3	_____
IS 101 Introduction to Information Systems	3	_____
ELECTIVE	3	_____

Computation included in ACC 201

Human Relations included in BUS 101

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ACCBOK-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Business Management provides students with the understanding and knowledge necessary for managing people and functions. Decision making for both private and public sector agencies is stressed in the program. Students will learn basic principles of management and human relations skills through various interactive course techniques and formats.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain current general business and management theories.
- Apply general business and management theories to real-life professional situations.
- Demonstrate preparation for entry-level business or management positions within profit and nonprofit organizations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
BUS 101 Introduction to Business	3	_____
BUS 273 Business Law I	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 100B Practical Human Relations for Business	3	_____
MGT 201 Principles of Management	3	_____
MGT 235 Organizational Behavior	3	_____
MGT 283 Introduction to Human Resources Management	3	_____
ELECTIVE	3	_____

Computation included in ACC 201

Human Relations included in MGT 100B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

BUSMGT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program provides students with the skills to plan, prepare and interpret construction documents. Students will develop these skills through board drafting with a high emphasis on using computer-aided design and drafting workstations. Instruction also includes office standards, ethics, equipment maintenance and production techniques. This degree is used as the basis for students entering civil engineering design, architectural design, electrical engineering design or mechanical design fields as well as for employment as CADD operators.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Perform tasks in operating a CADD workstation using industry standard software used in Southern Nevada.
- Produce Two- and Three-Dimensional construction documents using the drafting tools within the CAD software that will apply to their discipline.
- Utilize office standards, techniques, and procedures in the workplace.
- Demonstrate adequate knowledge of mathematics, communications skill and other core degree requirements. Graduates will be ready to be employed as an entry-level technician.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 107, 113, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CADD 100 Introduction to Computer Aided Drafting	3	_____
CADD 105 Intermediate Computer Aided Drafting	3	_____
CADD 200 Advanced Computer Aided Drafting	4	_____
CADD 207 Descriptive Geometry	3	_____
CADD 210B CADD Project	4	_____
CADD 250 CAD Systems Management	3	_____

Plus 7 credits from the following:

ADT 201B Introduction to Building Information Modeling	3	_____
CADD 230B Civil Drafting I	4	_____
CADD 231B Civil Drafting II	4	_____
CONS 120B Printreading and Specifications	3	_____

Computation included in CADD 100

Human Relations included in CADD 250

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CADD-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Successful completion of this certificate program will provide students with an opportunity to seek employment in entry-level casino and gaming positions. For those currently employed in the industry, this certificate enhances opportunity for job advancement, professional growth and career mobility. Students will obtain a basic knowledge of casino games, as well as casino management, casino marketing, gaming regulations, gaming law and human relations in the casino industry.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in dealing Table Games.
- Demonstrate proficiency in the operation of the Slots Department.
- Demonstrate proficiency in the Casino Cage.
- Demonstrate proficiency in the Casino Marketing Department.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS:	3-5	_____
BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105		

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
ACC 201 Financial Accounting	3	_____
GAM 106 Supervision of Casino Games	3	_____
GAM 108 Slots Management I	3	_____
GAM 204 Introduction to Casino Marketing	3	_____
GAM 206 Casino Surveillance	3	_____
GAM 210 Casino Customer Service	3	_____
GAM 225 Introduction to Gaming Management	3	_____
GAM 235 Gaming Laws and Regulations	3	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____

Plus 3 credits from the following:

GAM 103 Casino Cage Operations	3	_____
GAM 109 Slots Management II	3	_____
GAM 119 Blackjack Dealing	3	_____
GAM 121 Craps Dealing	3	_____
GAM 122 Roulette Dealing	3	_____
GAM 123 Baccarat Dealing	3	_____
GAM 124 Poker Dealing	3	_____
GAM 126 Pai Gow Tiles Dealing	3	_____
GAM 131 Race and Sports Book Management	3	_____
GAM 207 Table Games Management	3	_____
GAM 208 Casino Business Strategy	3	_____
GAM 222 European Roulette Dealing	3	_____

Computation included in ACC 201

Human Relations included in HMD 259

GAMMGT-CT **33**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Collision Repair program is designed to prepare students as entry level collision repair technicians. Students will earn I-CAR (Industry Council for Automotive Repair) certification points in 26 different areas, including customer service, estimating, welding, plastics and paint and refinish. Successful students will become proficient in safe working procedures, structural and non-structural repairs, refinishing techniques and estimating.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- The student will understand, identify and implement safe working procedures and complete the DP/2 safety examinations with a passing score.
- The student will perform non-structural, structural, and paint and refinish operations.
- The student will complete the following I-CAR certifications: FCR-01, WKR-01, DAM-01, DAM-02, DAM-03, DAM-04, CPS-01, CUS-01, STS-01, TRM-01, REF-01, REF-02, WCS-01, WCS-03, WCS-04, WCS-05, MEA-01, SPS-01, SPS-02, EXT-01, SSS-01, SPS-03, REF-03, REF-04, PLA-01, and PLA-02.
- The student will successfully pass the ASE/NATEF EOP exams or the ASE Certification exams in the following areas: Painting and Refinishing (B2), Non-Structural Analysis and Damage Repair (B3), Structural Analysis and Damage Repair (B4).

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
ABDY 101B Collision Repair Fundamentals and Estimating	4	_____
ABDY 110B Paint and Refinish I	4	_____
ABDY 120B Non-Structural Welding	4	_____
ABDY 122B Non-Structural Body and Panel and Trim	4	_____
ABDY 150B Structural I	4	_____
ABDY 152B Structural II	4	_____
ABDY 180B Non Structural - Advanced Body Panel	4	_____
ABDY 220B Paint and Refinish II	4	_____
AUTO 105B Automotive Maintenance I	4	_____

Computation included in ABDY 101B

Human Relations included in ABDY 101B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

AUTOCO-CT

39
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Computer Office Technology provides individuals with the knowledge and skills necessary for office professionals. Courses include instruction in the latest computer office technology skills (using keyboard, voice, and handwriting computer input); software (including word processing, spreadsheets, databases and presentations); general and advanced office skills; and communication skills.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate computer input using a keyboard by touch, voice recognition software, or handwriting recognition software at a minimum of 30 wpm with 95% accuracy.
- Demonstrate computer input of various office-related documents (using methods listed above) in a word processing program with 95% accuracy.
- Demonstrate beginning and intermediate functions of a word processing program.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ACC 135B Bookkeeping I or ACC 201 Financial Accounting	3	_____
BUS 106B Business English	3	_____
COT 102 Computer Keyboarding II	3	_____
COT 127B Microsoft Office for Offices	3	_____
COT 129B Records Management	3	_____
COT 200 Word Processing I	3	_____
COT 201B Word Processing II	3	_____
MGT 100B Practical Human Relations for Business	3	_____
Plus 3 credits from the following:		
CIT 206B MS Outlook Certification Preparation	2	_____
COT 103B Keyboard Review and Speed	1	_____
COT 108 Speedwriting Shorthand I	3	_____
COT 132B Outlook for Offices	1	_____
COT 205B Pads and Tabs – Office on the Go	3	_____
COT 206B Speech Recognition for Offices	3	_____
COT 208B Tablet Computer, Voice and Handwriting	1	_____
COT 209B Tablet Computer, Voice and Handwriting II	3	_____

Computation included in ACC 135B or ACC 201
Human Relations included in MGT 100B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

COT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Upon successful completion of this certificate program, students will have the skills necessary to investigate computer crime. It includes instruction in PC troubleshooting and repair, Microsoft operating systems and Cisco networking as well as specialized training in computer forensics, and digital crime investigation.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the process of acquiring and handling digital evidence including: the details of computer hard drive configuration and methods of hiding data; encryption methods and implementation methods for deciphering encrypted data; analysis of network traffic and the ability to differentiate between normal and malicious activity; the use of hardware and software tools used in computer and network forensics.
- Demonstrate how to set up investigator’s office and laboratory.
- Demonstrate how digital evidence is used in courtroom as well as the requirements for becoming an expert witness.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS:	3	_____
COM 115		

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CF 117B Computer Forensics	3	_____
CF 118B Internet Forensics	3	_____
CF 124B Digital Crime Investigation	3	_____
CF 217B Advanced Computer Forensics	3	_____
CIT 110 A+ Hardware	3	_____
CIT 211 MCITP/MCTS Windows Workstation OS	3	_____
CIT 212 MCITP/MCTS Windows Server OS	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____
IS 100B Core Computing Competency	0-3	_____
or		
IS 101 Introduction to Information Systems		

Continued in next column.

Continued from previous column.

	CR	SEMESTER
Plus 0-2 elective credits from the following:		
CF 119B Introduction to Electronic Crime for Law Enforcement	3	_____
CIT 118B Network Security Management	3	_____
CIT 173 Introduction to Linux	3	_____
CIT 174 Linux System Administration	3	_____
CIT 213 MCITP/MCTS Network Infrastructure	3	_____
CIT 217 Security+	3	_____
CIT 290 Internship in CIT I	1-3	_____
CIT 291 Internship in CIT II	1-3	_____
CRJ 104 Introduction to Administration of Justice	3	_____
CRJ 164 Introduction to Criminal Investigation	3	_____
CSCO 121 CCNA Routing Protocols and Concepts	4	_____
CSCO 220 CCNA LAN Switching and Wireless Fundamentals	4	_____
CSCO 221 CCNA WAN Fundamentals	4	_____
CSCO 230B Fundamentals of Network Security	4	_____

Computation included in CF 118B

Human Relations included in CF 124B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CITECI-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Concierge Management Certificate program is designed to provide students with the skills and knowledge needed to become a professional concierge. The curriculum is designed to teach students basic skill sets required for entry level positions as a Concierge.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of Concierge Management Operations.
- Demonstrate ability to operate the fundamentals of Concierge software program.
- Demonstrate ability to communicate effectively with team members and guests.
- Demonstrate knowledge of human relations and customer service skills.
- Demonstrate knowledge of cultural awareness and diversity.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
FAB 271 Wine Appreciation	3	_____
HMD 203 Front-Office Operations	3	_____
TCA 100B Concierge Management - Business Operations and Customer Service	3	_____
TCA 101B Concierge Software Applications and Operations	3	_____
TCA 110 Introduction to the Convention Industry	3	_____
TCA 141 Travel and Tourism I	3	_____
TCA 200 Airlines Reservations	3	_____
TCA 241 Travel and Tourism II	3	_____
TCA 251 Tourism and Convention Externship	3	_____

Plus 3 credits from the following:

CHI 101B Conversational Chinese I	3	_____
FREN 101B Conversational French I	3	_____
GER 101B Conversational German I	3	_____
ITAL 101B Conversational Italian I	3	_____
JPN 101B Conversational Japanese I	3	_____
KOR 101B Conversational Korean I	3	_____
SPAN 101B Basics of Spanish I	3	_____

Computation included in TCA 100B

Human Relations included in TCA 141

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

HDMCON-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement builds the skills required to provide professional and quality workmanship in the construction industry. The core curriculum stresses the theory and application of rough and finish electrical, low-voltage, photovoltaic, plumbing, weatherization, or Exploratory depending on which trade the student chooses, for residential and commercial construction. Instruction includes classroom and laboratory course work.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Read construction prints, to include: site, foundation, floor and structural plans, sectional and detail views and electrical, low-voltage, or plumbing plans.
- Calculate electrical, low-voltage, photovoltaic, plumbing, or weatherization construction related formulas.
- Identify the equipment, material and/or systems necessary for any given residential or commercial electrical, low-voltage, photovoltaic, plumbing, or weatherization situation.
- Interpret electrical, low-voltage, photovoltaic, plumbing or weatherization building codes.
- Explain how to troubleshoot and repair problems that arise in electrical, low-voltage, photovoltaic, plumbing, or weatherization systems.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

Continued from previous column.

	CR	SEMESTER
COMMUNICATIONS:	3	_____
COM 115		

FOR PLUMBING:

	CR	SEMESTER
BTF5 110B Fire Sprinkler Theory and Applications 1	3	_____
BTP 115B Plumbing Theory and Applications 1	3	_____
BTP 120B Plumbing Theory and Applications 2	3	_____
BTP 130B Plumbing Theory and Applications 3	3	_____
BTP 210B Plumbing Theory and Applications 4	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CONS 120B Printreading and Specifications	3	_____
MATH 104B Applied Mathematics or above (except MATH 111B, 115B, 122, 123)	3	_____
SCT 101B Fundamentals of Sustainability	3	_____
SCT 105B Sustainable Construction Materials	3	_____

FOR WEATHERIZATION:

	CR	SEMESTER
BTW 101B Basic Weatherization	4	_____
BTW 103B Blower Door and Combustion Appliance Safety	2	_____
BTW 105B Lead and Mold Safety	2	_____
BTW 201B Building Performance	4	_____
SCT 210B Sustainable Technology	3	_____

FOR ELECTRICAL:

BTE 116B Electrical Theory and Applications 1	3	_____
BTE 120B Electrical Theory and Applications 2	3	_____
BTE 130B Electrical Theory and Applications 3	3	_____
BTE 210B Electrical Theory and Applications 4	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____

FOR EXPLORATORY:

AC 101B Introduction to HVAC and Refrigeration	3	_____
BTE 116B Electrical Theory and Applications 1	3	_____
BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTP 115B Plumbing Theory and Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____

FOR LOW-VOLTAGE TECHNOLOGY:

BTLV 110B Low-Voltage Theory and Applications 1	3	_____
BTLV 120B Low-Voltage Theory and Applications 2	4	_____
BTLV 130B Low-Voltage Theory and Applications 3	4	_____
BTLV 210B Low-Voltage Theory and Applications 4	5	_____

Computation included in MATH 104B

Human Relations included in SCT 105

FOR PHOTOVOLTAIC TECHNOLOGY:

BTE 116B Electrical Theory & Applications 1	3	_____
BTPV 101B Photovoltaic Fundamentals	4	_____
BTPV 102B Photovoltaic Design and Sales	4	_____
BTPV 201B Photovoltaic Onsite Training	4	_____

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CTBUTR-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This certificate is designed to prepare students to enter/or advance in the field of criminal justice. The program is an integration of both academic and practical curriculum.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Understand the four subsystems of the criminal justice network and the workings of these institutions in society.
- Explain the means by which institutions provide justice and how it is used to satisfy the needs of society.
- Understand correctional theories and concepts.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, ENG 100, 101, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CRJ 104 Introduction to Administration of Justice	3	_____
CRJ 106 Introduction to Corrections	3	_____
CRJ 120 Community Relations	3	_____
CRJ 130 Survey of Criminal Law	3	_____
CRJ 164 Introduction to Criminal Investigation	3	_____
CRJ 220 Criminal Procedures	3	_____
CRJ 270 Introduction to Criminology	3	_____

Plus 6 credits from the following:

Any course with CRJ prefix	6	_____
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Computation included in CRJ 164

Human Relations included in CRJ 120

CRJ-CT **30**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Criminal Justice with a Law Enforcement Training Academy (LETA) Emphasis prepares students for a career as a peace officer with Category I and II Nevada Law Enforcement Agencies. Students are awarded thirty credits in criminal justice, three credits in English and a Nevada POST Category I Certificate. The curriculum places a strong emphasis on Community Oriented Policing and Problem Solving (COP & PS). Testing methodology is structured for an active learning environment that will include written examinations, scenarios and case studies.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the basic fundamentals of academic course work as required by the Nevada Commission on Peace Officer’s Standards and Training (POST).
- Demonstrate proficiency in the operation of academic course work as required by the Nevada Commission on Peace Officer’s Standards and Training (POST).
- Demonstrate the proper firing techniques for firearms and use of force requirements for a Nevada Peace Officer.
- Participate in the use of defensive tactics techniques that are authorized by Nevada Law Enforcement agencies.
- Demonstrate physical activity necessary to pass the Nevada POST Physical Agility Test.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER
CRJ 103 Communications Within the Criminal Justice Field	3	_____
CRJ 110B Introduction to Nevada Law Enforcement	3	_____
CRJ 111B Firearms I	3	_____
CRJ 114B Firearms II	2	_____
CRJ 167B Preliminary Investigation for Police Recruits	3	_____
CRJ 170B Physical Training for Law Enforcement	1	_____
CRJ 210B Community Policing in Southern Nevada	3	_____
CRJ 216B Police Patrol Tactics	3	_____
CRJ 219B Emergency Vehicle Operation and Control	3	_____
CRJ 221B Criminal Procedures for Law Enforcement	3	_____
CRJ 229B Defensive Tactics	3	_____
CRJ 233 Nevada Criminal Law	3	_____

Computation included in CRJ 167B

Human Relations included in CRJ 210B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CRJLETA-CT

36
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Culinary Arts is a quality, professionally oriented program designed for students wishing to enter and/or advance in the field of culinary arts. Students are taught the fundamentals of cooking with emphasis on hands-on preparation of various cuisines, including Basic Cookery, Garde Manger, Aromatics, and Saucier.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in food service sanitation and nutrition.
- Demonstrate basic cooking skills including product identification, knife skills, cold food production and cooking skills.
- Demonstrate the ability to identify and show proficiency in the use of many different herbs and spices.
- Produce commonly used stocks, the foundation sauces and a large compliment of secondary sauces.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
CUL 110 Basic Cookery	4	_____
CUL 130 Garde Manger	3	_____
CUL 200 Aromatics/Restaurant Experience	4	_____
CUL 250 Saucier	3	_____
CUL 295 Work Experience in Culinary Arts	1	_____
FAB 102 Food Service Sanitation II	2	_____
FAB 112 Restaurant Management I	3	_____
FAB 160 Hospitality Purchasing	3	_____
FAB 167 Food Service Nutrition	2	_____
HMD 101 Introduction to the Hospitality Industry	3	_____

Computation included in FAB 160

Human Relations included in HMD 101

CUL-CT **31**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Successful completion of this program will enable students, who are not interested in becoming interpreters, to work in a variety of situations with the deaf community. Students will obtain a strong understanding of American Sign Language, as well as deaf culture and history of deafness. Students will be able to communicate with deaf family members, friends and co-workers. Students also have the option to enter the Associate of Applied Science program in Deaf Studies to further their skills and understanding.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate fluency in American Sign Language (ASL) demonstrated via spontaneous discourse with native and near-native ASL users.
- Demonstrate the ability to employ narrative skills in rehearsed ASL storytelling and personal account communication.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
AM 145 American Sign Language I	4	_____
AM 146 American Sign Language II	4	_____
AM 147 American Sign Language III	4	_____
AM 148 American Sign Language IV	4	_____
AM 149 American Sign Language V	4	_____
AM 151 Fingerspelling I	1	_____
AM 152 Fingerspelling II	1	_____
AM 153 Deaf Culture	3	_____
AM 154 Deaf History	3	_____

Computation included in AM 151

Human Relations included in AM 151

DS-CT **31**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The dental assisting program is a limited-entry program. The program is accredited by the American Dental Association’s Commission on Dental Accreditation, 211 East Chicago Avenue, Suite 1900, Chicago, Illinois 60611. The course is designed to prepare students for the national certification through the Dental Assisting National Board (DANB), 444 North Michigan Avenue, Suite 900, Chicago, Illinois 60611, (800) FOR-DANB. Students must successfully complete either ENG 100, 101, 107, or 113 with a C or above and may contact the Dental Assistant Program Director at 651-5851. Students must attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement. Dental assistants are primarily employed in private dental offices but may work in public clinics, hospitals and dental schools. The curriculum includes classroom and laboratory experience in dental sciences, dental materials, radiology, chairside assisting and dental office management. In the students last semester, the student will be placed in at least three clinical sites where they must complete 300 hours of clinical experience.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate current dental assistant practice and educational standards.
- Demonstrate competency to apply principles of the psychological and socio-cultural concepts to develop effective interpersonal skills necessary to provide supportive treatment to diverse populations of dental clients.
- Demonstrate competency to function as a member of the dental team by recognizing and recording general and oral conditions, providing preventive care and implementing current dental technology.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
DA 108B Introduction to Dental Assisting	2	_____
DA 115B Dental Health Education	1	_____
DA 118B Dental Materials for Dental Assistants	3	_____
DA 119B Dental Chairside Procedures	4	_____
DA 123B Practice Management and Procedures	3	_____
DA 124B Integrated Science for Dental Assistants	4	_____
DA 126B Clinical Externship	6	_____
DA 128B Dental Radiology	3	_____
or		
DA 106B Radiation Protection for Dental Auxiliaries	1	_____
and		
DA 107B Intraoral Radiographic Technique	2	_____
DA 136B Dental Specialties	3	_____

Computation included in DA 123B

Human Relations included in DA 108B

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

DACLIN-CT

32
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Diesel/Heavy Equipment program prepares students to enter the workforce as technicians to maintain, diagnose, and repair heavy equipment. Students will learn diesel engine and propulsion systems, fuel management systems, related accessory components, as well as hydraulics, welding certifications, and HVAC certifications. All students will be prepared to take ASE certification exams at the completion of the appropriate course. Integral to this program is a paid internship component, allowing students to gain valuable work experience prior to completion of their program, making them more employable.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Prepare for employment in the Diesel Technology Industry as a Maintenance Technician.
- Successfully pass the AWS D1.1 mild steel horizontal welding certification.
- Successfully pass the IMACA refrigerant handling certification.
- Successfully pass the SP2 safety and pollution prevention certification.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3	_____

SPECIAL PROGRAM REQUIREMENTS (28) Credits:

	CR	SEMESTER
DT 104 Diesel Equipment Service	4	_____
DT 115 Diesel/Heavy Equipment Electrical Systems	4	_____
DT 136 Diesel Engine Repair I	4	_____
DT 165 Diesel/Heavy Equipment Heating and Air Conditioning	4	_____
DT 295 Internship Co-Op I	2	_____
DT 296 Internship Co-Op II	2	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MTL 223B Special Topics in Welding Technology	4	_____

Computation included in DT 115

Human Relations included in DT 295

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

DLS-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Infant/Toddler Certificate in Early Childhood Education provides students with both the theoretical knowledge and practical skills training necessary for the care of infants and toddlers in family day care homes or child care centers. This certificate enables students to meet Nevada State licensing requirements for Infant Toddler Director.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the elements and dynamics of quality education and care for infants and toddlers.
- Demonstrate appropriate skills for providing quality education and care for infants and toddlers.
- Demonstrate appropriate skills in interacting with infants and toddlers and their families.

GENERAL EDUCATION REQUIREMENTS (9 Credits):

	CR	SEMESTER
COMMUNICATIONS: 3-5 credits from the following: BUS 108, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102 Plus 3 credits from the following: COM 101, 102, 215	6-8	_____
MATHEMATICS: MATH 104B or above	3	_____

SPECIAL PROGRAM REQUIREMENTS (32 Credits):

	CR	SEMESTER
ECE 121 Parent Caregiver Relationships	1	_____
ECE 122 Observation Skills	1	_____
ECE 123 Health and Nutrition for Young Children	1	_____
ECE 127 Role of Play for Infants and Toddlers	1	_____
ECE 130 Infancy	3	_____
ECE 134 Guiding Infant/Toddlers	1	_____
ECE 157 Art in the Preschool Curriculum	1	_____
ECE 200 The Exceptional Child	3	_____
ECE 202 Understanding Human Growth and Development	3	_____
ECE 204 Principles of Child Guidance	3	_____
ECE 232 Practicum: Infant and Toddler	4	_____
ECE 245 Practicum Seminar	2	_____
ECE 252 Infant/Toddler Curriculum	3	_____
ECE 260 Children's Literature	3	_____
ECE 285 Current Issues in Infancy	2	_____

Computation included in MATH 104B or above

Human Relations included in ECE 202

ECETOD-CT 41
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Preschool Education Certificate in Early Childhood Education provides students with both the theoretical knowledge and practical skills training necessary for students working in a preschool setting, family day care home or child care center. This certificate enables students to meet Nevada State licensing requirements for Preschool Director.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the elements and dynamics of quality education and care for young children.
- Demonstrate appropriate skills for providing quality education and care for young children.
- Demonstrate appropriate skills in interacting with young children and their families.

GENERAL EDUCATION REQUIREMENTS (9 Credits):

	CR	SEMESTER
COMMUNICATIONS: 3-5 credits from the following: BUS 108, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102 Plus 3 credits from the following: COM 101, 102, 215	6-8	_____
MATHEMATICS: MATH 104B or above	3	_____

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER
ECE 121 Parent Caregiver Relationships	1	_____
ECE 122 Observation Skills	1	_____
ECE 123 Health and Nutrition for Young Children	1	_____
ECE 151 Math in the Preschool Curriculum	1	_____
ECE 152 Science in the Preschool Curriculum	1	_____
ECE 155 Literacy and the Young Child	1	_____
ECE 156 Music in the Preschool Curriculum	1	_____
ECE 157 Art in the Preschool Curriculum	1	_____
ECE 158 Activities for Physical Development in Young Children	1	_____
ECE 200 The Exceptional Child	3	_____
ECE 202 Understanding Human Growth and Development	3	_____
ECE 204 Principles of Child Guidance	3	_____
ECE 231 Preschool Practicum	4	_____
ECE 245 Practicum Seminar	2	_____
ECE 250 Introduction to Early Childhood Education	3	_____
ECE 251 Curriculum in Early Childhood Education	3	_____
ECE 260 Children's Literature	3	_____

Computation included in MATH 104B or above

Human Relations included in ECE 202

ECEPRE-CT **42**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Upon successful completion of this certificate program, students will be prepared for an entry-level position providing support in industry. Instruction includes both analog and digital design and testing of electronic circuits, devices and systems, telecommunications and data-communications.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Develop a working knowledge of safety procedures, use of common hand tools, and proper fabrication techniques associated with the electronics environments, identify passive components, construct, and test various DC and AC circuits.
- Construct, analyze and test various types of digital circuits using Boolean expressions, Karnaugh maps and general purpose test equipment.
- Develop a working knowledge of microcomputers and microprocessors to include writing an assembly language program to output a sinusoidal wave, square wave, and triangular wave to an output port.
- Identify active analog components, design, construct, and test various DC and AC circuits using operational amplifiers construct a Bode Plot of an amplifier's frequency and phase response.
- Show positive work ethics and interpersonal skills in a group environment.

GENERAL EDUCATION REQUIREMENTS (6 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 100, 101, 107, 113	3-5	_____
MATHEMATICS: MATH 111B	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ET 104B Fabrication and Soldering Techniques	2	_____
ET 106B Test Equipment Operation	3	_____
ET 131B DC for Electronics	4	_____
ET 132B AC for Electronics	4	_____
ET 212B Digital Logic I	4	_____
ET 220B Solid State Devices and Circuits I	4	_____
ET 228B Data Acquisition	3	_____
ET 282B Microprocessors I	3	_____

Computation included in MATH 111B
Human Relations included in ET 131B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETELEC-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Engineering Technology, Industrial Emphasis is an 18-month program that provides students with classroom and laboratory experiences in electricity, mechanical power, pneumatics, hydraulics and ferrous and non-ferrous material. The industrial emphasis focuses on those skills used in industrial settings. Courses include Industrial Electricity, Mechanical Power Transmission and Programmable Logic Controllers.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Show the knowledge and demonstrate the ability to select, test, set up, and maintain various electromechanical systems and machinery and perform basic system calculations.
- Demonstrate the ability to apply various troubleshooting techniques for the identification and correction of faults in electrical, mechanical, and fluid power systems.
- Assemble, operate, and maintain various electrical motor controllers, mechanical power transmission systems, and high pressure fluid power systems.
- Show the ability and skills to prepare technical reports and communicate the results through effective oral communications.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
CADD 100 Introduction to Computer Aided Drafting	3	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
MT 102B Fundamentals of Electricity	4	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 115B Programmable Logic Controllers I	3	_____
MT 116B Programmable Logic Controllers II	3	_____

Computation included in MT 102B, 104B

Human Relations included in MT 115B, 116B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETINDU-CT

32
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Engineering Technology, Operations Emphasis is an 18-month program that provides students with class room and laboratory experiences in electricity, mechanical power, pneumatics, hydraulics and ferrous and non-ferrous material. The Operations emphasis focuses on those skills used in operational settings. Courses include Industrial Electricity, Mechanical Power Transmission and Fluid Power.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the knowledge and ability to follow guidelines for safe operation and maintenance of various mechanical, electrical, and fluid power systems.
- Show the skills to design and operate basic electrical, mechanical, and fluid power systems and to use computer-based programmable logic controller devices to monitor their operation and performance.
- Employ the skills and knowledge to apply various troubleshooting techniques for identification and correction of faults in electrical circuits and mechanical and high pressure fluid power systems.
- Prepare technical reports and communicate the results through effective oral communications.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
AC 103B Introduction to HVAC Mechanical Theory and Application	5	_____
CONS 120 Printreading and Specifications	3	_____
MT 102B Fundamentals of Electricity	4	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____

Plus 3 credits from the following:

Any course with EGG, ET, MT prefix	3	_____
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Computation included in MT 102B

Human Relations included in MT 102B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETOPER-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Engineering Technology, Power Utility Certificate of Achievement is an 18-month to two year program that prepares students for employment in Power Production. This program integrates two hands-on Co-Op/Internships in Operation, Electricity, and Hydro/Electricity that provide students with a wide-range of experiences. This program is presented in cooperation with the U.S. Bureau of Reclamation.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Identify the occupational positions available in the Power Utility and other power generating plants.
- Participate in an on-the-job training experience in a power generating plant or dam.
- Identify acceptable work performance standards.
- Develop positive attitudes towards work and service to others.

GENERAL EDUCATION REQUIREMENTS (6 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 107	3	_____
MATH MATH 111B, 116, 124, 126, 127 or higher	3	_____

SPECIAL PROGRAM REQUIREMENTS (25 Credits):

	CR	SEMESTER
MT 102B Fundamentals of Electricity	4	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MT 115B Programmable Logic Controllers I	3	_____

Plus at least 6 credits from the following:

FOR ELECTRICAL MAINTENANCE:

EGG 131 Technical Physics I	4	_____
ESH 207B Introduction to Safety Management	3	_____
ESH 240B Wastewater Treatment I	3	_____
ET 100B Survey of Electronics	3	_____
ET 104B Fabrication and Soldering Techniques	0.5-6	_____
ET 106B Test Equipment Operation	3	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 180B Co-Op/Internship First Semester	3	_____

Continued in next column.

Continued from previous column

	CR	SEMESTER
FOR MECHANICAL MAINTENANCE:		
EGG 131 Technical Physics I	4	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 180B Co-Op/Internship First Semester	3	_____
WELD 130B Welding Support Equipment Operations	3	_____
WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (Tig)	4	_____
FOR PLANT OPERATIONS:		
EGG 131 Technical Physics I	4	_____
EMA 101 Principles of Emergency Management	3	_____
EMA 102 Disaster Mitigation and Preparedness	3	_____
ESH 207B Introduction to Safety Management	3	_____
ET 100B Survey of Electronics	3	_____
ET 104B Fabrication and Soldering Techniques	0.5-6	_____
ET 106B Test Equipment Operation	3	_____
MT 110B Material Science I (Ferrous and Non-Ferrous)	4	_____
MT 180B Co-Op/Internship First Semester	3	_____

Computation included in MT 102B, 104B

Human Relations included in MT 106B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETPWR-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Upon successful completion of this program, students will be prepared for an entry-level position in the gaming industry. This program integrates classroom experience with hands-on lab exercises and covers topics such as planning, design, troubleshooting and maintenance of various slot machines and related devices. Computers and networks used to support modern slot machine gaming are also covered.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Develop a working knowledge of the theory of operation of a typical electronics slot machine; a working knowledge of Pseudo Random Number Generators; a working knowledge of ROM, PROM, EPROM, EEPROM and RAM; a working knowledge of stepper motors.
- Describe the operation of peripheral devices; the external features of a slot machine; the coin-in coin-out assemblies; the modes of operation of the electronics slot machine.
- Identify electronic circuits and components used in slot machines.
- Develop a hands-on understanding of the installation of networks that support devices such as slot machines and computers.
- Demonstrate a working knowledge of personal computers and the embedded computers found in slot machines.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
CIT 110 A+ Hardware	3	_____
CSCO 105B Fundamentals of Voice and Data Cabling	3	_____
ET 104B Fabrication and Soldering Techniques	2	_____
ET 106B Test Equipment Operation	3	_____
ET 131B DC for Electronics	4	_____
ET 138B Introduction to Slot Machine Technology	3	_____
ET 212B Digital Logic I	4	_____
ET 238B Device Peripherals	3	_____
MATH 111B Mathematics for Electronics Applications	3	_____

Computation included in MATH 111B

Human Relations included in CSCO 105B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETSLOT-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Upon successful completion of this program, students will be prepared for an entry-level position in the telecommunications industry. Students will acquire the necessary skills required by the high-tech, high-wage telecommunications industry. This program integrates classroom experience with hands-on lab exercises. Computers and networks used to support modern telecommunications are also covered.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Construct, test, and verify the operation of various AC, DC, analog and digital circuits, demonstrate a working knowledge, fiber optics, electronics/telecommunications laboratory test equipment and perform a mechanical and fusion splice to specification.
- Explain the signaling specifications of the telephone set, subscriber loop interface and central office and distinguish between the various circuit and trunking types commonly employed in the Public Switched Telephone Network (PSTN).
- Develop positive work ethics and interpersonal skills in a group environment.
- Develop a hands-on understanding of the installation and operation of networks that support devices such as Voice over IP telephones and computers.
- Demonstrate a working knowledge of personal computers and the embedded computers found in telecommunications devices such as switches and routers.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 100, 101,107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
CIT 110 A+ Hardware	3	_____
CSCO 105B Fundamentals of Voice and Data Cabling	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____
CSCO 205B Fiber Optic Cabling	3	_____
ET 106B Test Equipment Operation	3	_____
ET 108B Telecommunications and the Information Age	3	_____
ET 131B DC for Electronics	4	_____
ET 132B AC for Electronics	4	_____
MATH 111B Mathematics for Electronics Applications	3	_____

Computation included in MATH 111B

Human Relations included in CSCO 105B, ET 132B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETTELCO-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Engineering Technology, Theatre Emphasis is an 18-month program that provides students with classroom and laboratory experience in electricity, mechanical power transmission, fluid power and related design activities in theater technology. The Theatre Technology emphasis focuses on those skills used in theater and entertainment environment. The graduates of the program will be qualified to assume technical positions in the theater technology field especially in the local area.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Obtain relevant up-to-date and applied knowledge and skills to set-up, maintain, upgrade and troubleshoot the equipment used in a theater environment.
- Demonstrate how to be effective in their technical roles as a theater technician.
- Show the necessary skills to design, assemble and operate various fluid power systems and perform basic system calculations.
- Develop skills through design and operation of mechanical power transmission systems and prepare technical reports and communicate the results through effective oral communications.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 115, ENG 100, 101, 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ADT 100B Introduction to Drafting Theory	3	_____
CADD 100 Introduction to Computer Aided Drafting	3	_____
ET 104B Fabrication and Soldering Techniques	2	_____
IS 100B Core Computing Competency or IS 101 Introduction to Information Systems	0-3	_____
MT 101B Introduction to Theater Technology	2	_____
MT 102B Fundamentals of Electricity	4	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
THTR 204 Theatre Technology I	3	_____
Plus 3 credits from the following:		
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
MT 183B Co-Op/Internship Third Semester	3	_____
THTR 214 Theatre Technology II	3	_____

Computation included in MT 102B, 104B
Human Relations included in MT 101B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ETTHTR-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This Certificate program prepares students in the fast growing and lucrative Occupational Safety Management career field. Students learn to design, implement and manage an effective and proactive safety program that includes establishing goals, procedures and injury prevention policies. This Certificate program is the foundation program to prepare students for professional certifications including ASP (Associate Safety Professional), CSP (Certified Safety Professional), CHMM (Certified Hazardous Materials Manager), and CIH (Certified Industrial Hygienist).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the fundamentals of the management of occupational health and safety and its impact on operational profit.
- Demonstrate an understanding of the various laws, regulations and guidelines that are applicable to the ESH arena, and how they drive occupational safety and health.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
BI 101B Introduction to Building Codes	3	_____
ESH 130 Introduction to Hazardous Materials Management	3	_____
ESH 201 40 Hour Hazwoper Certification	3	_____
ESH 205 Transportation of Hazardous Materials	3	_____
ESH 207B Introduction to Safety Management	3	_____
ESH 208B Safety Management II	3	_____
ESH 211B Industrial Hygiene I	3	_____
ESH 212B Industrial Hygiene II	3	_____
ESH 213B Construction 500	3	_____
ESH 214B General Industry 501	3	_____
ESH 265B Safety Laws and Regulations	3	_____
FT 121 Fire Prevention	3	_____

Computation included in ESH 201
Human Relations included in ESH 130

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ESHOC-CT **39**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is an 18-month program that prepares students for a lucrative career in this area. Students learn to operate the machinery used in wastewater management plants where urban wastewater is treated for release back into the environment. Classes are generally held at the Clark County Sanitation District facilities.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the fundamentals of waste water treatment and related technologies.
- Demonstrate an understanding of the laws and regulations that apply to waste water treatment.
- Demonstrate an understanding of the various treatment methodologies and technologies applicable to waste water treatment.
- Demonstrate an understanding of pump operation and maintenance for waste water treatment operation.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ESH 202 Environmental Laws and Regulations	3	_____
ESH 240B Wastewater Treatment I	3	_____
ESH 241B Wastewater Treatment II	3	_____
ESH 242B Wastewater Treatment III	3	_____
ESH 246B Water/Wastewater Mathematics I	3	_____
ESH 247B Water/Wastewater Mathematics II	3	_____
ESH 248B Water Quality Analysis and Laboratory	4	_____
ESH 250B Pump Operation and Maintenance	3	_____
ESH 251B Current Issues	3	_____

Computation included in ESH 246B
Human Relations included in ESH 202

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ESHWW-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Environmental Safety and Health, Water Treatment emphasis is an 18-month program that prepares students for a lucrative career in this area. Students learn how to maintain and operate plants that treat water supplies for urban areas. Classes are generally held at the Clark County Sanitation District.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of the fundamentals of water treatment and related technologies.
- Demonstrate an understanding of the laws and regulations that apply to drinking water treatment.
- Demonstrate an understanding of the various treatment methodologies and technologies applicable to drinking water treatment.
- Demonstrate an understanding of pump operation and maintenance for drinking water treatment operation.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
ESH 202 Environmental Laws and Regulations	3	_____
ESH 243B Water Treatment Plant Operations I	3	_____
ESH 244B Water Distribution I	3	_____
ESH 245B Water Treatment Plant Operations II	3	_____
ESH 246B Water/Wastewater Mathematics I	3	_____
ESH 247B Water/Wastewater Mathematics II	3	_____
ESH 248B Water Quality Analysis and Laboratory	4	_____
ESH 250B Pump Operation and Maintenance	3	_____
ESH 251B Current Issues	3	_____

Computation included in ESH 246B
Human Relations included in ESH 202

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ESHWAT-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Fire Fighting certificate is designed for students who desire to enter a career in a municipal, county or state fire department. The material is linked with the Nevada State Fire Marshall's Nevada Firefighter I Certificate. Students are given the opportunity to take the Nevada and National Fire Protection Association's Firefighter I didactic and practical test. Course material must be taken in sequence with all prerequisites being completed prior to testing with the State Fire Marshall's Office.

The Fire Fighting certificate does not guarantee employment within any fire department in the State of Nevada. Students may be placed in a physically demanding environment designed to introduce the student to the job task and skills required to operate in the fire and emergency services.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate preparedness to complete the Nevada State Fire Marshall's written test in accordance with the National Fire Protection Association's Firefighter I Standard 1001.
- Demonstrate preparedness to complete the Nevada State Fire Marshall's practical test in accordance with the National Fire Protection Association's Firefighter I Standard 1001.
- Demonstrate preparedness in oral communications and interviewing techniques.

GENERAL EDUCATION REQUIREMENTS (6 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 107, COM 101	6	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
FT 101 Principles of Emergency Services	3	_____
FT 104 Nevada Firefighter I	3	_____
FT 105 Fire Behavior and Combustion	3	_____
FT 109B Internship in Firefighting	1	_____
FT 110 Basic Wildland Firefighting	4	_____
FT 121 Fire Prevention	3	_____
FT 125 Building Construction for Fire Protection	3	_____
FT 150 Apparatus and Equipment	3	_____
FT 152B Legal Aspects of Emergency Services	3	_____
FT 154B Principles of Fire and Emergency Services Safety and Survival	3	_____

Computation included in FT 101

Human Relations included in FT 101

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

FSTFF-CT

35
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This certificate prepares students for the commercial floral design industry which encompasses private retail shops, wedding chapels, silk floral establishments and major resort hotels. Typical positions in floral establishments include owner/manager, lead designer, assistant designer or salesperson. A work experience program is also available for students wishing to obtain on-the-job training.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Appraise and evaluate the basic tasks of a floral designer in a commercial setting by calculating, estimating and justifying market sheets for ordering product for shop needs, and acting as a consultant for weddings, special events and funerals.
- Assess criteria to select and recommend materials for the construction of floral decor to customer's preference, using industry standards.
- Compose photographic images of floral design.
- Demonstrate math, communication, computer technology skills, and other core supervisory/entry level management skills in the floral design industry.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
FLOR 102B Introduction to Floral Design	3	_____
FLOR 106B Permanent Botanicals	3	_____
FLOR 202B Tributes and Traditions	3	_____
FLOR 204B Traditional Weddings	3	_____
FLOR 208B Creativity and Competition	3	_____
FLOR 220B Events and Display	3	_____
INTD 105B History of Furniture and Interiors I	3	_____
PHO 170 Beginning Photography	3	_____

Plus 3 credits from the following:

FLOR 108B Event Balloon Sculptures	1.5	_____
FLOR 115B Mega-Department Practices	3	_____
FLOR 206B Beginning Ikebana	3	_____
FLOR 224B Techniques and Mechanics	1.5	_____
FLOR 225B Color and Product Mix	1.5	_____
FLOR 295B Floral Careers Internship	3	_____

Computation included in FLOR 202B

Human Relations included in FLOR 202B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

FLORDT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This Food and Beverage program prepares students to begin a career or further their career in the food service industry. The program, consisting of food and beverage management courses and culinary courses, is designed to provide students with the necessary knowledge and skills to be successful in their food service careers.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proficiency in food serve sanitation and nutrition.
- Learn the basic functions of a professional kitchen by passing the requirements of the required courses.
- Demonstrate a basic understanding of commercial 6 beverage purchasing.
- Demonstrate proficiency in the use and application of food service math by passing the required cost control course.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
CUL 110 Basic Cookery	4	_____
FAB 102 Food Service Sanitation II	2	_____
FAB 112 Restaurant Management I	3	_____
FAB 160 Hospitality Purchasing	3	_____
FAB 167 Food Service Nutrition	2	_____
FAB 210 Fundamentals of Food and Beverage Control	3	_____
FAB 230 Menu Planning	3	_____
FAB 285 Catering Management	3	_____
HMD 101 Introduction to the Hospitality Industry	3	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____

Computation included in FAB 160

Human Relations included in HMD 101

FAB-CT **32**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

Introduces the student to basic concepts of computer animation. Students learn to use software to create and manipulate images.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate communication, critical thinking, design, technological and production skills to produce and create animations.
- Produce vector and bitmap content and presentations using Adobe software.
- Apply basic design and illustration skills relating to creating animated content for the web and multimedia productions.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
GRC 101 Introduction to Graphic Communications	3	_____
GRC 103 Introduction to Computer Graphics	3	_____
GRC 107 Design Fundamentals	3	_____
GRC 110 Rendering and Illustration	3	_____
GRC 119 Computer Graphics/Digital Media	3	_____
GRC 156B Computer Illustration I	3	_____
GRC 179 Multimedia Design and Production I	3	_____
GRC 183B Electronic Imaging I	3	_____
GRC 188 Web Animation and Interactivity I	3	_____
GRC 288B Web Animation and Interactivity II	3	_____

Computation included in GRC 103, 183B

Human Relations included in GRC 107

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

GCANIDE-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program is designed for those seeking to enter the field and will train students to use digital tools for design and creative production for first-time employment.

This program is directed toward creating graphics targeted for the print. A graphic artist may design brochures, reports and logos or create layouts for magazines or newspapers.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate communication, critical thinking, design, technological and production skills dealing with producing creative work destined for the printing press.
- Produce vector and bitmap graphics using Adobe software.
- Design, edit and assemble page layouts.
- Apply proper prepress procedures.
- Demonstrate basic design, layout, typography and illustration skills.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
GRC 101 Introduction to Graphic Communications	3	_____
GRC 103 Introduction to Computer Graphics	3	_____
GRC 104 Layout and Typography Fundamentals	3	_____
GRC 107 Design Fundamentals	3	_____
GRC 110 Rendering and Illustration	3	_____
GRC 119 Computer Graphics/Digital Media	3	_____
GRC 140 Print Production with InDesign	3	_____
GRC 156B Computer Illustration I	3	_____
GRC 183B Electronic Imaging I	3	_____

Plus 3 credits from the following:

GRC 207 Electronic Design	3	_____
GRC 278B Electronic Prepress	3	_____

Computation included in GRC 103, 278B

Human Relations included in GRC 104, 110

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. GCGRADE-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program is designed for those seeking to enter the field and will train students to use digital tools for design and creative production for first-time employment.

The Multimedia Design emphasis is directed toward creating graphics and presentations targeted for a monitor or screen. Students will draw or render pictures on computers and place these images with text and/or sound to communicate.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate communication, critical thinking, design, technological and production skills to produce and create multimedia projects for the web.
- Produce vector and bitmap graphics using Adobe software.
- Design, edit and assemble multimedia presentations using popular multimedia authoring software.
- Demonstrate basic design, illustration, and animation skills related to multimedia production.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
GRC 101 Introduction to Graphic Communications	3	_____
GRC 103 Introduction to Computer Graphics	3	_____
GRC 107 Design Fundamentals	3	_____
GRC 119 Computer Graphics/Digital Media	3	_____
GRC 156B Computer Illustration I	3	_____
GRC 175B Web Design and Publishing I	3	_____
GRC 179 Multimedia Design and Production I	3	_____
GRC 183B Electronic Imaging I	3	_____
GRC 188 Web Animation and Interactivity I	3	_____
PHO 214 Videography and Film I	3	_____

Computation included in GRC 119

Human Relations included in GRC 119, 175B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. GCMULDE-CT **33** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program is designed for those seeking to enter the field and will train students to use digital tools for design and creative production for first-time employment.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate communication, critical thinking, design, technological and production skills dealing with producing creative work that will be seen on the world wide web.
- Produce vector and bitmap graphics using Adobe software.
- Design, edit, and assemble web pages and sites.
- Demonstrate basic design, illustration, and animation skills related to web design and production.
- Produce animated and interactive web content.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
GRC 101 Introduction to Graphic Communications	3	_____
GRC 103 Introduction to Computer Graphics	3	_____
GRC 107 Design Fundamentals	3	_____
GRC 110 Rendering and Illustration	3	_____
GRC 119 Computer Graphics/Digital Media	3	_____
GRC 156B Computer Illustration I	3	_____
GRC 175B Web Design and Publishing I	3	_____
GRC 183B Electronic Imaging I	3	_____
GRC 188 Web Animation and Interactivity I	3	_____
GRC 275B Web Design and Publishing II	3	_____

Computation included in GRC 103, 183B
Human Relations included in GRC 107

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. GCWEBDE-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Hotel Management provides students the opportunity to seek employment in an entry-level position, or for those already in the hotel industry, an opportunity for professional growth and career advancement.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Understand the nature and scope of the hospitality industry.
- Demonstrate proficiency in hotel operations in the areas of front office and housekeeping.
- Demonstrate an understanding of the support departments in a hotel.
- Understand the various service delivery systems used in the hospitality industry.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
HMD 101 Introduction to the Hospitality Industry	3	_____
HMD 202 Housekeeping Operations	3	_____
HMD 203 Front-Office Operations	3	_____
HMD 226 Industry Computer Applications for Hospitality and Tourism	3	_____
HMD 235 Hotel, Restaurant and Gaming Law	3	_____
HMD 253 Hospitality Services Management	3	_____
HMD 259 Human Resources Management in the Hospitality Industry	3	_____
TCA 180 Hotel, Restaurant and Casino Marketing	3	_____
TCA 221 Hospitality Accounting I	3	_____

Computation included in TCA 221

Human Relations included in HMD 259

HMD-CT **30**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement, Legal Support Specialist is designed to instruct students preparing to enter the legal field as secretarial support staff. The program covers the structure of law offices, administrative functions of legal support staff, the court system, specialty areas of law, the trial process and procedures for processing a lawsuit. There is a heavy emphasis placed upon the computer application knowledge required by the profession. The program of study qualifies its graduates to be employed in private law firms, corporate legal departments and government legal offices. Graduates are also prepared for clerical positions in educational institutions, government offices, hospitals and insurance companies. In addition, graduates may work as receptionists, clerk typists, or word processors or take charge of legal record keeping.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate ability to perform business communication tasks.
- Gauge ability to maintain office records and calendars, and prioritize multiple tasks.
- Denote aptitude for understanding legal terminology, legal complexities, and supporting documents.
- Appraise knowledge of law office protocol as prescribed by ethical codes.
- Demonstrate a working knowledge of procedural law, the law library, and how to prepare legal documents.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 102, 215, BUS 107, 108	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
COT 106 Gregg Shorthand or COT 108 Speedwriting Shorthand I or COT 209B Tablet Computer, Voice and Handwriting II	3	_____
COT 127B Microsoft Office for Offices or COT 201B Word Processing II	3	_____
COT 129B Records Management	3	_____
COT 200 Word Processing I	3	_____
ENG 100 Composition Enhanced or ENG 101 Composition I or ENG 113 Composition I for International Students	3-5	_____
IS 101 Introduction to Information Systems	3	_____
LAW 101 Fundamentals of Law I	3	_____
LAW 253 Law Office Management	3	_____
Plus 3 credits from the following:		
CIT 106B Spreadsheets	1	_____
CIT 107B Database	1	_____
CIT 109B WordPerfect	1	_____
COT 103B Keyboarding Review and Speed	1	_____
COT 126B PowerPoint for Offices	1	_____
COT 208B Tablet Computer, Voice and Handwriting	1	_____

Computation included in LAW 253
Human Relations included in LAW 101

30
Total Credits

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. LSGLAST-CT

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The coding program is designed for students to become coding specialists with demonstrated knowledge and skills in applications of classifications and nomenclatures to health information. Coding with approved classification systems is required for direct patient care, research, and fiscal reimbursement. Recipients of the Certificate of Achievement in Medical Coding may apply to take the national certification exam given by the American Health Information Management Association. Successful candidates receive the Certified Coding Associate (CCA), Certified Coding Specialist (CCS), or Certified Coding Specialist – Physician Based (CCS-P) credential. The Certificate of Achievement in Medical Coding may serve towards the first year of the Associate of Applied Science degree in Health Information Technology. The Medical Coding program is approved by the American Health Information Management Association, 233 N. Michigan Ave., Suite 2150, Chicago, IL 60601-5519, (312) 233-1100.

Students should meet with a health programs advisor for additional information.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate coding competency as published by the American Health Information Management Association.
- Demonstrate competencies necessary to successfully pass one of the national coding registry examinations.
- Demonstrate knowledge, skills, and competencies necessary to gain employment as a medical coder.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
COT 127B Microsoft Office for Offices	3	_____
HHP 123B Introduction to the Human Body	4	_____
HHP 124B Introduction to the Human Body Computer Lab	1	_____
HIT 105B Healthcare Delivery Systems	2	_____
HIT 106B Healthcare Reimbursement	2	_____
HIT 118B Language of Medicine	3	_____
HIT 119B Introduction to Pharmacology and Laboratory Tests	2	_____
HIT 130B Procedural Terminology	1	_____
HIT 165B Pathophysiology	4	_____
HIT 180B Introduction to Health Information Management	2	_____
HIT 184B Introduction to ICD Coding	2	_____
HIT 185B Introduction to CPT Coding	3	_____
HIT 186B Advanced Outpatient Coding	2	_____
HIT 187B Introduction to ICD-PCS Coding	2	_____
HIT 201B Advanced Coding Systems	3	_____
HIT 210B Coding Practice Experience	3	_____

Computation included in HIT 119B

Human Relations included in HIT 210B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MEDCOD-CT

42
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement for Medical Laboratory Assistant provides students with the skills necessary to collect and process patient samples for analytic testing. The Medical Laboratory Assistant supports other clinical laboratory professionals in providing physicians with critical diagnostic information utilized in patient care.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge of commonly ordered tests and specimen requirements.
- Perform blood collection techniques.
- Perform point of care testing.
- Accession, process, and distribute patient samples.
- Display effective oral and written communication skills.

GENERAL EDUCATION REQUIREMENTS (6 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____
MATHEMATICS: MATH 120	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CHEM 110 Chemistry for Health Sciences I	4	_____
CLS 145 Laboratory Methods	2	_____
CLS 146B Applied Laboratory Methods	2	_____
CLS 147B Medical Laboratory Assistant Clinical Practicum	2	_____
CLS 151B Phlebotomy	2	_____
CLS 152B Applied Phlebotomy	2	_____
CLS 153B Phlebotomy Clinical Practicum	2	_____
HHP 123B Introduction to the Human Body	4	_____
HIT 103B Customer Service Skills in a Healthcare Setting	1	_____
HIT 105B Health Delivery Systems	2	_____
HIT 117B Medical Terminology I	1	_____
IS 101 Introduction to Information Systems	3	_____

Computation included in MATH 120
Human Relations included in HIT 103B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MEDLAB-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

As a medical assistant, you will be a multi-skilled professional, dedicated to assisting in patient care management. You will be trained to perform administrative and clinical/laboratory duties and may manage emergency situations, facilities, and/or personnel. The clinical duties of medical assistants include preparing patients for examinations and treatments; taking vital signs and medical histories, sterilizing instruments; performing diagnostic tests and basic laboratory procedures; and assisting the physician with examinations and minor office surgery. Administrative duties include scheduling and receiving patients; obtaining patient data; establishing and maintaining confidential medical records; handling telephone calls, preparing correspondence and reports; purchasing supplies and maintaining equipment; and assuming responsibility for the daily office business.

The Medical Office Assisting program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of Curriculum Review Board of The American Association of Medical Office Assistants Endowment (CRB-AAMAE). Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate competencies necessary to challenge the Certification Examination (CMA).
- Demonstrate the skills and abilities necessary to find employment in the field or continue with their education in pursuit of a degree.
- Demonstrate entry level competencies as defined by the American Association of Medical Assistants.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (39 Credits):

	CR	SEMESTER
CLS 130B Laboratory Procedures for Medical Office Assistants	2	_____
CLS 131B Applied Laboratory Procedures for Medical Office Assistants	1	_____
COT 127B Microsoft Office for Offices	3	_____
HIT 102B Coding for Medical Offices	2	_____
HIT 106B Healthcare Reimbursement	2	_____
HIT 118B Language of Medicine	3	_____
MOA 101B Introduction to Medical Assisting	3	_____
MOA 106B The Body in Health and Disease I	3	_____
MOA 107B Medical Assistant Techniques	4	_____
MOA 108B The Body in Health and Disease II	3	_____
MOA 110B Clinical Assistant Techniques	4	_____
MOA 120B Medical Office Management	3	_____
MOA 130B Clinical Externship	3	_____
MOA 131B Externship Seminar	1	_____
MOA 195B Selected Topics in Medical Assisting	2	_____

Computation included in MOA 107B, 110B, 120B

Human Relations included in MOA 101B, 120B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MOA-CT

42
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The transcription program prepares students to become a medical language specialist who is highly skilled in transcribing medical dictation detailing a patient’s health care. As an indispensable part of the health care team, the medical transcriptionist produces medical reports which become permanent records of medical, scientific, and legal value. The Medical Transcriptionist works in hospitals, clinics, medical research and teaching centers, as well as in private medical offices of physicians and surgeons. Recipients of the Certificate of Achievement in Medical Transcription have met the minimum competencies for the American Association for Medical Transcription. Students may apply to take the certification exam to become a Certified Medical Transcriptionist (CMT).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate entry level competencies in medical transcription as published by American Association for Medical Transcription.
- Demonstrate skills and abilities necessary to find employment in the field.
- Demonstrate knowledge, skills, and entry level competencies needed to gain employment as a medical transcriptionist.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
COT 200 Word Processing I	3	_____
ENG 107 Technical Communications I	3	_____
HHP 123B Introduction to the Human Body	4	_____
HIT 118B Language of Medicine	3	_____
HIT 119B Introduction to Pharmacology and Laboratory Tests	2	_____
HIT 120B Medical Transcription I	4	_____
HIT 122B Medical Transcription II	5	_____
HIT 165B Pathophysiology	4	_____

Computation included in HIT 119B

Human Relations included in HIT 122B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MEDTRN-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Mental Health Services prepares students for careers as Direct Support Specialists to provide direct support services to persons with cognitive, developmental and/or mental disorders in human services. This human services field requires knowledge and skills competency in mental health and/or developmental services, ethical judgment, the ability to teach life skills, provide physical assistance, and to support self-sufficiency, empowerment, and self-direction in persons and families receiving services. Direct Support Specialists (DSSs) are found in many different residential and rehabilitation settings with various job titles, such as Mental Health Technician, Developmental Support Technician, Residential Counselor, Rehabilitation Specialist, Employment Specialist, or Job Coach. Job growth in this profession is estimated to be above average in the future.

This Certificate of Achievement meets the need for students to access high quality training and the development of advanced skills in this human services profession. The courses are competency based and provide the opportunity for development of on the job skills. The Certificate contains all courses required in Nevada for the certification of Mental Health Technicians and Developmental Support Technicians. Students seeking certification should obtain advising on current certification requirements. All courses in this Certificate can be applied toward the Associate of Applied Science in Mental Health Services.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Qualify or obtain employment in direct support services for persons with mental and/or intellectual disabilities.
- Successfully demonstrate the knowledge and skills required of direct support services to persons with mental and/or intellectual disabilities.
- Apply the knowledge, skills, judgment and ethical standards of direct support services to persons with mental and/or intellectual disabilities in an applied human services setting.
- Meet the Nevada educational requirements to qualify for certification as a Mental Health Technician and/or Developmental Support Technician.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

Continued from previous column.

	CR	SEMESTER
Plus 6 credits from the following:		
MHDD 102 Medical Component	1	_____
MHDD 103 Psychopathology and Developmental Disabilities	1	_____
MHDD 106 Teaching and Active Treatment	1	_____
MHDD 110 Introduction to Disability Services	3	_____
MHDD 126 Understanding Developmental Disabilities	2	_____
MHDD 130 Teaching Life Skills	3	_____
MHDD 150 Issues in Substance Abuse	1	_____
MHDD 152 Allied Therapies	1	_____
MHDD 160 Understanding Mental Illness	2	_____
MHDD 210 Autism Spectrum of Disorders	3	_____
MHDD 291B Fieldwork Experience	3	_____
MHDD 295 Practicum	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
MHDD 101 Role of the Technician	1	_____
MHDD 105 Conflict Prevention and Response Training	2	_____
MHDD 107 Medication Fundamentals	2	_____
MHDD 109 Introduction to Therapeutic Interventions	2	_____
MHDD 127 Positive Behavior Supports	2	_____
MHDD 153 Life Span Development	1	_____
MHDD 154 Advanced Therapeutic Interventions	2	_____
MHDD 299 Capstone Project	3	_____
PSY 101 General Psychology	3	_____
PSY 241 Introduction to Abnormal Psychology	3	_____

Computation included in MHDD 107, 109, 127
Human Relations included in MHDD 101, 109, 127, 153, 154, PSY 101

Continued in next column.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MHD-CT **30** Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Music Business and Technology is designed for students who wish to pursue careers in commercial music production, marketing, recording or management. The program provides in-depth studies of recording technology in the studio setting, with ample time for projects and research. Two levels of Business of Music are also offered to give students a comprehensive overview of all facets of the music industry, including management, budgeting, copyrights and related legal issues. In addition, students are required to take courses in general music, communication and computer literacy in order to give them the tools needed to succeed in the open marketplace.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate fundamental knowledge of music theory and history to communicate effectively with musicians, vocalists, and others involved in the creative process.
- Demonstrate competency to manage, assist, or engineer basic professional recording sessions.
- Demonstrate knowledge of various music business practices, including contracts, copyrights, talent management, and budgeting.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
MUS 111 Piano Class I	3	_____
MUS 181 Business of Music	3	_____
MUS 231E Recording Techniques I E	3	_____
MUS 232E Recording Techniques II E	3	_____
MUS 281B Business of Music II	3	_____
MUS 285B Advanced Recording Techniques	3	_____
Plus 3 credits from the following:		
MUS 101 Music Fundamentals	3	_____
MUS 102 Beginning Music Theory	3	_____
Plus 3 credits from the following:		
MUS 121 Music Appreciation	3	_____
MUS 125 History of Rock Music	3	_____
MUS 134 Jazz Appreciation	3	_____
Plus 3 credits from the following:		
GRC 103 Introduction to Computer Graphics	3	_____
IS 101 Introduction to Information Systems	3	_____
MATH 120 Fundamentals of College Mathematics or above (except MATH 122, 123)	3	_____

Computation included in IS 101, MATH 120, GRC 103

Human Relations included in COM 101

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MUS-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Ornamental Horticulture Certificate of Achievement is well suited to students who already have obtained a college degree and are seeking to make a career change. It provides a strong theoretical background and applied practices needed to manage a landscape site utilizing best management practices. In addition it affords students the opportunity to concentrate in one of four specialty fields or to design a program of study that meets their individual interests or occupational needs.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate knowledge and ability to select landscape ornamentals that are well suited to site conditions, limitations and plant use.
- Demonstrate knowledge and ability to evaluate soil conditions and implement best management practices to maintain and improve soil quality and plant performance.
- For Floral Design students demonstrate knowledge and skills required to create floral arrangements to meet client requirements.
- For Landscape Construction/Contracting students demonstrate knowledge and skills to interpret plans, operate equipment and complete landscape installations at an intermediate level.
- For Landscape Design students demonstrate knowledge and skills required to develop and create landscape designs and details to meet client requirements at an intermediate level.
- For Landscape Management students demonstrate knowledge and skills required to evaluate site conditions, evaluate plant health and implement best management practices to meet client requirements at an intermediate level.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS:	3-5	_____
BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102		

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER
LAND 257 Ornamental Plant Materials	3	_____
LAND 258 Xeric Plant Materials	3	_____
OH 100B Horticulture Fundamentals	1	_____
OH 105 Soils and Plant Nutrition	3	_____
OH 110B Plant Science	3	_____
FOR FLORAL DESIGN:		
FLOR 102B Introduction to Floral Design	3	_____
FLOR 106B Permanent Botanicals	3	_____
FLOR 202B Tributes and Traditions	3	_____
FLOR 204B Traditional Weddings	3	_____
FLOR 206B Beginning Ikebana	3	_____
FLOR 208B Creativity and Competition	3	_____
FLOR 220B Events and Display	3	_____

Continued in next column.

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	CR	SEMESTER
FOR LANDSCAPE CONSTRUCTION/CONTRACTING:		
LAND 180 Fundamentals of Landscape Architectural Design I	3	_____
OH 107B Landscape Materials	3	_____
OH 114B Irrigation Systems	3	_____
OH 150B Landscape Equipment Survey	2	_____
OH 207 Landscape Construction	4	_____
OH 211B Irrigation Management	2	_____
OH 212B Landscape Budgeting and Estimating	3	_____

FOR LANDSCAPE DESIGN:

ADT 100B Introduction to Drafting Theory	3	_____
LAND 180 Fundamentals of Landscape Architectural Design I	3	_____
LAND 182 Fundamentals of Landscape Architectural Design II	3	_____
LAND 241 Grading and Drainage	3	_____
LAND 242 Irrigation	3	_____
LAND 262 CAD for Landscape Architecture	3	_____
OH 107B Landscape Materials	3	_____

FOR LANDSCAPE MANAGEMENT:

OH 111 Turfgrass Fundamentals	3	_____
OH 112 Turfgrass Management	3	_____
OH 114B Irrigation Systems	3	_____
OH 140B Annual Color Concepts	2	_____
OH 203 Introduction to Plant Pathology and Landscape Pests	3	_____
OH 209 Arboriculture	4	_____
OH 211B Irrigation Management	2	_____
OH 223 Integrated Pest Management	3	_____

Computation included in OH 105

Human Relations included in OH 105, 110B

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OH-CT

36
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Paralegal Studies is designed for students who hold an associate or baccalaureate degree. It is a program of study which qualifies its graduates to be employed in law and business related occupations, including private law firms, corporate departments and government entities. Substantive law is combined with thorough preparation in legal procedures, research methodology and practical knowledge. The Paralegal Studies Program provides the foundation for students to think critically and act ethically in accordance with the local and national rules of professional conduct. Graduates of this program will be prepared to perform high quality legal work under the direction of an attorney. The program encourages graduates to continue educational pursuits and seek community service opportunities.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate ability to manage cases and draft legal documents by applying written skills and knowledge of legal procedures in civil litigation and other substantive areas of law.
- Identify ethical issues and be able to apply the rules of professional conduct through synthesis and analysis.
- Demonstrate knowledge of research methodology by applying critical thinking initiatives to various information formats including computerized and traditional library research.
- Proficient use of word processing software and ability to identify and adapt to different types of law office technology and computer applications.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, ENG 100, 101, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
IS 101 Introduction to Information Systems	3	_____
LAW 101 Fundamentals of Law I	3	_____
LAW 231 Civil Procedure	3	_____
LAW 234 Civil Procedure II	3	_____
LAW 253 Law Office Management	3	_____
LAW 259 Legal Writing	3	_____
LAW 261 Legal Research I	4	_____
LAW 262 Legal Research II	4	_____
LAW 263 Ethics	3	_____

Computation included in LAW 253
Human Relations included in LAW 101

LAW-CT **32**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The objective of this certificate is to train students with the necessary cognitive, psychomotor, and affective behaviors to provide advanced life support in the prehospital setting and to provide the necessary coursework to be licensed in the State of Nevada and nationally certified. This limited entry program offers a comprehensive and in-depth study of advanced life support skills which include pharmacology, advanced airway management procedures and skills, ECG interpretation and electrical therapy. After completion of this certificate, students may then choose to complete the next phase of this program and earn an Associate of Applied Science degree in Paramedic Medicine. The Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee of Educational Programs for the Emergency Medical Services Professions (CoA-EMSP).

Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate effective critical thinking skills associated with treating the sick and injured.
- Demonstrate competence and compassion commensurate for the entry-level Paramedic provider.
- Display appropriate attitude and compassion towards patients, co-workers and other health care professionals.
- Display and apply aggregate knowledge and practices of the professional Paramedic.
- Recognize and apply current practices and procedures for medical traumatic emergencies.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (48 Credits):

	CR	SEMESTER
HHP 123B Introduction to the Human Body	4	_____
HHP 124B Introduction to the Human Body Computer Lab	1	_____
EMS 125B Pharmacology for Paramedics	3	_____
EMS 127B Paramedic Clinical Practice I	2	_____
EMS 129B Paramedic Fundamentals	3	_____
EMS 130B Paramedic Assessment I	1	_____
EMS 145B Essentials of Paramedic Medicine	3	_____
EMS 165B Pathophysiology for Paramedics	3	_____
EMS 166B Paramedic Technology	4	_____
EMS 167B Paramedic Clinical Practice II	2	_____
EMS 168B Electrophysiology/ Electrocardiography	3	_____
EMS 169B Advanced Cardiac Life Support (ACLS)	1	_____
EMS 171B Prehospital Trauma Life Support (PHTLS)	1	_____
EMS 172B Vehicle Extrication for Paramedics	3	_____
EMS 173B Paramedic Field Internship	3	_____
EMS 176B Pediatrics for Paramedics	4	_____
EMS 185B Advanced Emergency Care	3	_____
EMS 202B Advanced ECG Interpretation	2	_____
EMS 230B Paramedic Assessment II	1	_____
HIT 117B Medical Terminology I	1	_____

Computation included in EMS 125B
Human Relations included in EMS 129B

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

EMS-CT

51
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Pastry Arts program is a quality, professionally oriented course of study designed for students wishing to enter and/or advance in the field of pastry arts. Students are taught to master the fundamentals and techniques of baking and pastry arts with emphasis on hands-on preparation of breads, cakes and pastries.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate basic cooking skills including product identification, knife skills, cold food production and cooking skills.
- Demonstrate basic baking skills including production of breads, quick breads, puff pastry, pies, and additional baking skills.
- Produce a variety of decorated restaurant cakes.
- Demonstrate plating techniques for individual restaurant hot and cold dessert preparations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS:	3-5	_____
BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105		

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
CUL 110 Basic Cookery	4	_____
CUL 125 Principles of Baking	3	_____
CUL 135 Breads of the World	3	_____
CUL 175 Cake Design	3	_____
CUL 225 Advanced Baking	3	_____
CUL 255B Retail Bakery Management	3	_____
CUL 295 Work Experience in Culinary Arts	1	_____
FAB 102 Food Service Sanitation II	2	_____
FAB 160 Hospitality Purchasing	3	_____
FAB 167 Food Service Nutrition	2	_____
HMD 101 Introduction to the Hospitality Industry	3	_____

Computation included in FAB 160

Human Relations included in HMD 101

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CULPAS-CT

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program provides education and training necessary to prepare students to work in various pharmacy settings under the direction and supervision of a licensed pharmacist, with a principle focus on hospital and community pharmacy establishments.

After successful completion of program prerequisites and admission into the program, students in their first semester will receive coursework instruction designed to orient them to the field of pharmacy. During semester one, learning modes will consist of a combination of online, classroom, and laboratory training. In the second semester students will receive advanced program instruction designed to further develop and enhance their pharmacy practice skills. Instruction methodologies will include online, laboratory, and on-site clinical learning and training. Upon program completion, students will be eligible for licensure with the Nevada State Board of Pharmacy.

A limited entry program. Students must attend a health programs orientation and meet with a health programs advisor for additional counseling on program requirements and coursework timelines.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate broad competency in pharmacy techniques and procedures, pharmaceutical math, and pharmacology.
- Demonstrate the relevant skills and competency necessary for licensure as a Nevada State Pharmacy Technician.
- Demonstrate the skills and abilities necessary to seek gainful employment in the pharmaceutical field.
- Demonstrate effective and ethical pharmacy practice techniques in accordance with defined state, federal, and professional industry guidelines and legal parameters.
- Demonstrate skills and academic aptitude necessary for successful completion of the National Pharmacy Technician Certification Examination administered by the Pharmacy Technician Certification Board (PTCB), at their discretion.

GENERAL EDUCATION REQUIREMENTS (9 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
MATHEMATICS: MATH 100B or above (except MATH 122, 123)	3	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
COT 101B Computer Keyboarding I	3	_____
HIT 117B Medical Terminology I	1	_____
IS 101 Introduction to Information Systems	3	_____
PHAR 100B Introduction to Pharmacy Practice	3	_____
PHAR 101B Pharmacy Techniques	3	_____
PHAR 105B Pharmaceutical Math for Technicians	3	_____
PHAR 110B Pharmacology I	2	_____
PHAR 115B Pharmacology II	2	_____
PHAR 120B Pharmacy Microcomputers	2	_____
PHAR 126B Pharmacy Technician Practicum	7	_____

Computation included in PHAR 105B

Human Relations included in PHAR 100B

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PHARM-CT

38
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program provides instruction in commercial photographic skills and creative photographic processes. Beginning and intermediate photographic processes and skills are addressed. Other topics include photographic lighting, photographic commercial/illustration, photojournalism, color lab technologies and portraiture.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Operate film and digital camera systems both inside and outside the studio to produce commercially viable images.
- Use supplemental lighting systems and controls to make effective images.
- Produce commercial images in the areas of Portraiture, Weddings, Sports, Editorial, Product, Forensic, and Photojournalism.
- Develop ability to process images using Photoshop, and produce prints using digital printers.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (37 Credits):

	CR	SEMESTER
GRC 103 Introduction to Computer Graphics	3	_____
PHO 170 Beginning Photography	3	_____
PHO 175 Intermediate Photography	3	_____
PHO 195 Photographic Lighting	4	_____
PHO 208B Introduction to Large Format Photography	3	_____
PHO 225 Photographic Commercial/Illustration I	4	_____
PHO 235 Photographic Portraiture I	4	_____
PHO 240B Digital Photographic Imaging	3	_____
PHO 260B Photographic Business Practices	3	_____

Plus 7 credits from the following:

PHO or up to 4 credits from GRC	7	_____
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Computation included in PHO 170

Human Relations included in PHO 170

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. PHOTCOM-CT

40
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The CSN Videography and Film Program is a hands-on digital program that stresses traditional film grammar and the creative documentary. Courses address basic and intermediate film making techniques using digital video equipment. Other topics include camera usage, production planning, script writing, lighting, directing and digital editing with commercial applications. With the Certification of Achievement students can move directly into the world of videographic movie making.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Students will operate a digital camera and light meter and apply concepts of photographic composition and creative expression to pictures.
- Students will create shot lists to shoot basic video sequences, operate a video camera and digital editing equipment, and assemble basic sequences into short movies.
- Students will develop creative story concepts and script ideas and create professional standard scripts.
- Students will identify story elements, script, produce, light, direct and edit a short documentary movie.
- Students will develop a professional portfolio.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
PHO 150B Movies and Media	3	_____
PHO 151B Film Directing Styles	3	_____
PHO 170 Beginning Photography	3	_____
PHO 214 Videography and Film I	3	_____
PHO 216 Videography and Film II	3	_____
PHO 218B Film Screenwriting I	3	_____
PHO 220B Video Digital Editing	3	_____
PHO 223B Documentary Film Production I	3	_____
PHO 244B Lighting for Video and Film	3	_____
PHO 290B Video Portfolio	3	_____

Plus 6 credits from the following:

PHO 152B World Cinema	3	_____
PHO 153B Independent Filmmaking	3	_____
PHO 157B Cinematography I	3	_____
PHO 215 Rock Video Production	3	_____
PHO 219B Film Screenwriting II	3	_____
PHO 221B Advanced Digital Editing	3	_____
PHO 224B Final Cut Pro Bootcamp	1	_____
PHO 226B Documentary Film Production II	3	_____
PHO 227B DVD Studio Bootcamp	1	_____
PHO 228B Motion Bootcamp	1	_____
PHO 245B Video Lighting and Grip	3	_____
PHO 257B Cinematography II	3	_____
THTR 105B Introduction to Acting I	3	_____

or
Any course with GRC prefix

Computation included in PHO 170

Human Relations included in PHO 150B, 214

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PHOVID-CT

39
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Practical Nursing Program is designed to prepare the graduate to provide nursing care in structured health care settings for clients of all ages who have well defined health problems with predictable outcomes. Emphasis is placed on the ability to make sound judgments based on critical thinking skills, the knowledge of scientific principles, and the ability to use technical skills in a variety of settings. Graduates are eligible to apply to take the national licensure examination-practical nurse (NCLEX-PN) to become a licensed practical nurse (LPN). The program has full approval status by the Nevada State Board of Nursing, 2500 West Sahara, Suite 207, Las Vegas, NV 89102, (702) 486-5800 and is accredited by the National League for Nursing Accrediting Commission, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 (404) 975-5000.

A limited entry program; students must attend a health programs orientation and meet with a health programs advisor for additional counseling.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate competency to use principles of biological, psychological, social and nursing sciences when assisting with the development and implementation of the plan of care for people of all ages and diverse cultures in various stages of health.
- Demonstrate competency to use critical thinking skills when contributing to the nursing process while providing nursing care for clients experiencing common, well-defined stable health problems in structured health care settings.
- Demonstrate ability to practice within the ethical and legal framework of practical nursing.

GENERAL EDUCATION REQUIREMENTS (9 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: PSY 101	3	_____
MATHEMATICS: MATH 104B, 120 or above (except MATH 122, 123)	3	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
HHP 123B* Introduction to the Human Body	4	_____
HHP 124B* Introduction to the Human Body Computer Lab	1	_____
HIT 117B Medical Terminology I	1	_____
PN 100L Practical Nursing Learning Lab	1	_____
PN 101B Introduction to Practical Nursing	2	_____
PN 103B Gerontological Health Care	2	_____
PN 104B Practical Nursing Fundamentals	5	_____
PN 105B Practical Nursing I	5	_____
PN 106B Family Nursing	3	_____
PN 108B Practical Nursing II	4	_____
PN 110B Practical Nursing Seminar/ Management Concepts	4	_____
PN 125B Pharmacology for Practical Nursing Practice	3	_____

Other Requirement

Completion of an approved nursing assistant course and current certified nursing assistant in Nevada by the start of the 3rd semester.

Computation included in MATH 104B, 120 or above (except MATH 122, 123)

Human Relations included in PSY 101

*BIOL 223 and 224 would be accepted in lieu of HHP 123B and HHP 124B.

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PRN-CT

44
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Real Estate provides students with the knowledge and skills necessary to make intelligent decisions in the acquisition, ownership and disposition of real estate. The certificate offers entry-level proficiency for real estate salesmen, brokers, property managers and appraisers. The program also provides enrichment for currently employed escrow officers, loan officers, building contractors and land developers.

Successful completion of RE 101 and RE 103 will enable students to satisfy requirements of the Nevada State Real Estate Commission to take the Salesman's Exam. RE 101, RE 103 and RE 206 are among several courses required by the Nevada Real Estate Commission to take the Broker's Exam.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Explain real estate listing practices and how they apply to the real estate market in general.
- Apply negotiation strategies to real-estate professional situations involving real estate transactions.
- Explain the purpose of a standard real estate appraisal and the practices by which it is used.
- Demonstrate ability to complete real estate transactions in accordance with local, state, and federal guidelines.

GENERAL EDUCATION REQUIREMENTS (6 Credits):

SPECIAL PROGRAM REQUIREMENTS (24 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____

	CR	SEMESTER
RE 101 Real Estate Principles	3	_____
RE 102B Real Estate Math	3	_____
RE 103 Real Estate Law and Practice	3	_____
RE 199 Real Estate Investments	3	_____
RE 202 Real Estate Financing and Insurance	3	_____
RE 203B Tax Aspects of Real Property Transactions	3	_____
RE 205B Real Property Management	3	_____
RE 206 Real Estate Appraising	3	_____

Computation included in RE 102B
Human Relations included in RE 202

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

RE-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program was developed out of a collaborative effort between the retail industry and the College. The curriculum encompasses several business essentials, including management and communication, required for career success.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate a strong foundation in writing, oral communications, math applications and computer literacy.
- Understand the fast-paced challenges prevalent in the retail industry.
- Understand the scope of the retail manager’s job and an understanding of the basic requirements for success performance management.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ACC 135B Bookkeeping I or ACC 201 Financial Accounting	3	_____
BUS 109B Business Mathematics	3	_____
COM 101 Oral Communication	3	_____
IS 101 Introduction to Information Systems	3	_____
MGT 201 Principles of Management	3	_____
MGT 212 Leadership and Human Relations	3	_____
MGT 283 Introduction to Human Resources Management	3	_____
MKT 127 Introduction to Retailing	3	_____
MKT 210 Marketing Principles	3	_____

Computation included in ACC 135B or ACC 201
Human Relations included in MGT 212

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

RTLMTGT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Tourism, Convention and Event Planning Certificate of Achievement is designed to provide exciting career opportunities, and produce professionals who want to work in the Tourism, Convention and Event Planning industries.

This program is application oriented and students will learn contemporary skills and valuable techniques to enter and compete in today's fast-paced, multi-cultural, meeting planning and tourism environments.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the criteria of different types of events and how they relate to tourism in a project.
- Create a meeting/event from inception to completion using the components of tourism.
- Demonstrate good oral and written communication skills in working with clients, colleagues and vendors around the world.
- Enhance customer service and relationship skills in a multicultural and global society.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
FAB 285 Catering Management	3	_____
HMD 101 Introduction to the Hospitality Industry	3	_____
TCA 110 Introduction to the Convention Industry	3	_____
TCA 141 Travel and Tourism I	3	_____
TCA 188 Special Events Planning	3	_____
TCA 241 Travel and Tourism II	3	_____
TCA 251 Tourism and Convention Externship	3	_____
TCA 289 Introduction to Corporate Meetings and Events	3	_____

Plus 3 credits from the following:

TCA 100B Concierge Management - Business Operations and Customer Service	3	_____
TCA 101B Concierge Software Applications and Operations	3	_____
TCA 183 Conference and Convention Planning	3	_____
TCA 190 Introduction to Destination Marketing	3	_____
TCA 200 Airline Reservations	3	_____
TCA 222 Wedding Planning	3	_____
TCA 225 Introduction to International Tourism	3	_____
TCA 276 Introduction to Trade Show Operations	3	_____

Computation included in TCA 188

Human Relations included in TCA 141

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

TRVTCEP-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement – AWS Entry Level Welder emphasis provides students with the skills and knowledge necessary for successful entry level employment in welding and related metal working industries.

Extensive classroom and laboratory instruction focuses on the most widely used welding processes in industry including SMAW (Stick), GMAW (Mig), FCAW (Flux core) and GTAW (Tig). Additionally, students will receive instruction in Oxy/Fuel, Plasma and Carbon Arc-Air cutting processes and blueprint reading and interpretation.

Upon completion of the Certificate of Achievement requirements, students may certify as AWS Entry Level Welders.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate proper safety practices during welding operations.
- Read and interpret blueprints.
- Cut and prepare parts from blueprints and drawings.
- Set-up, maintain and perform minor repairs to welding and associated equipment.
- Perform satisfactory welds in all positions.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 107, 113	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ALS 101 College Success	3	_____
MATH 116 Technical Mathematics	3	_____
MT 102B Fundamentals of Electricity	4	_____
WELD 131B Blueprint Reading, Layout, and Sketching	3	_____
WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
WELD 133B SMAW (Stick)	4	_____
WELD 134B GTAW (Tig)	4	_____
WELD 135B GMAW (Mig)	2	_____
WELD 137B FCAW (Flux Core)	2	_____

Computation included in MATH 116
Human Relations included in ALS 101

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. WELDENT-CT

30
Total Credits

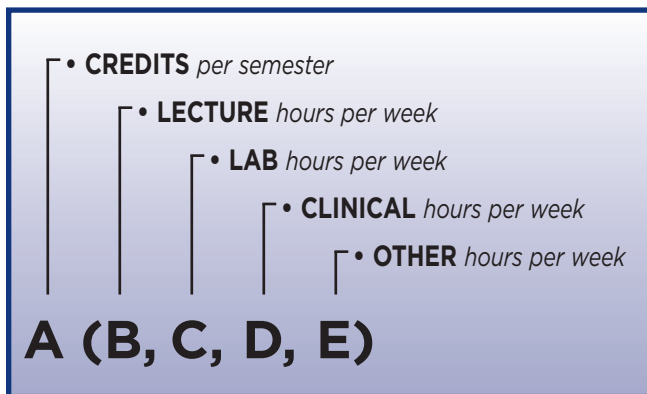
Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

COURSE DESCRIPTIONS

The following course descriptions are intended to briefly describe the nature of each of the courses. For more complete information, departments or faculty can provide specific course syllabuses.

The numbers in the right side of each description define the credits and average weekly contact hours the student will spend in formal classes during a 16 week semester. Classes scheduled for other than a 16 week semester will have the contact hours adjusted accordingly.

- A - defines the number of semester credits
- B - average number of lecture hours per week
- C - average number of laboratory hours per week
- D - average number of clinical hours per week
- E - average number of other formal instructional hours per week



In addition to these hours, students are expected to complete homework assignments on their own time. These assignments may include library research, computer utilization, field trips, cultural performances, and other instructional activities.

EXAMPLE

ENG 101	Composition I	3 (3,0,0,0)
	3 credits	
	3 lecture hours	
	0 laboratory hours	
	0 clinical hours	
	0 other hours	

Architectural Design Technology

AAD 180 Fundamentals of Design I 3 (2,2,0,0)
Introduction to the principles and theories of design and design methodology in the “making” of representations of form and space.

AAD 182 Fundamentals of Design II 3 (2,2,0,0)
Continuation of AAD 180, with emphasis on spatial sequence, tectonics, and design precedents. Prerequisite: AAD 180.

Architecture

AAE 100 Introduction to Architecture 3 (3,0,0,0)
Survey of architecture. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice.

Collision Repair

ABDY 101B Collision Repair Fundamentals and Estimating 4 (2,4,0,0)
This lecture/lab course includes an overview of the collision industry, instruction in safe shop procedures, measurement, vehicle disassembly, and estimating software and techniques. Successful students will earn nine I-CAR certification points.

ABDY 110B Paint and Refinish I 4 (2,4,0,0)
This course provides instruction in all phases of metal preparation: sanding, masking, metal treatment, priming, as well as spraying basecoat and clear coat and the proper use and maintenance of paint guns.

ABDY 120B Non-Structural Welding 4 (2,4,0,0)
This course prepares the student in general welding safety, Plasma Arc Cutting, Oxy and Acetylene welding, cutting, heating and GMAW MIG welding techniques. Students will be prepared to take the I-CAR hands on steel welding test.

ABDY 122B Non-Structural Body and Panel and Trim 4 (2,4,0,0)
This course covers the proper techniques for removal, installation, adjustment, and alignment of body hardware, body trim, and body sheet metal parts (using basic hand tools).

ABDY 125B Airbrush Technology 2 (1.5,1,0,0)
Students will learn the techniques of airbrushing for automotive related applications. Equipment selection, paint mixing, surface preparation and special effects will be covered.

ABDY 140B Automotive Electrical 4 (2,4,0,0)
This course will provide the student with a working knowledge of basic circuitry, wiring schematics, diagnosis, and servicing of electrical and electronic components.

ABDY 144B Automotive Brakes and Suspension Systems 4 (2,4,0,0)

This course prepares the student to diagnose and repair collision related damage to suspension and braking systems.

ABDY 146B Automotive Mechanical Systems 4 (2,4,0,0)

Diagnosis and repair of drive train, fuel and exhaust systems, drivability and emissions systems, heating and cooling systems, air conditioning systems and restraint systems.

ABDY 150B Structural I 4 (2,4,0,0)

Introduction to specialized frame and unibody measuring, anchoring, and pulling equipment. The student will perform welding techniques and use corrosion preventive materials to restore the vehicle as closely as possible to pre-collision condition. Prerequisite: ABDY 120B or instructor approval.

ABDY 152B Structural II 4 (2,4,0,0)

This course prepares the student in the repair of a moderate to heavily damaged vehicles using specialized frame and unibody measuring, anchoring, and pulling equipment. Continued instruction in welding techniques and corrosion preventive materials to restore the vehicle as closely as possible to pre-collision condition is included. Prerequisite: ABDY 150B or instructor approval.

ABDY 154B Structural III 4 (2,4,0,0)

Advanced preparation for the student in repair of a moderate to heavily damaged vehicle using specialized frame and unibody measuring, anchoring, and pulling equipment. Welding techniques will receive special emphasis. Prerequisite: ABDY 152B or instructor approval.

ABDY 180B Non Structural - Advanced Body Panel 4 (2,4,0,0)

This course covers the identity of auto body parts and their structural relationships. Removal, installation, adjustment, and alignment of body hardware, body trim, and body sheet metal parts (using basic hand tools) are skills that are mastered in this course. Prerequisite: ABDY 122B or instructor approval.

ABDY 220B Paint and Refinish II 4 (2,4,0,0)

This course covers metal preparation, sanding, masking, metal treatment, and priming. Spraying of basecoat and clear coat, color matching, blending, and the proper care of a paint gun are also included. Students will learn blending, color adjusting and tinting. Prerequisite: ABDY 110B or instructor approval.

ABDY 222B Paint and Refinish III 4 (2,4,0,0)

This course is an advanced study in the proper technique in metal preparation including sanding, masking, metal treatment, and priming. Spraying of basecoat and clear coat, color matching, color blending, and the proper set up, maintenance and trouble shooting of a paint gun are also included. Prerequisite: ABDY 220B or instructor approval.

Air Conditioning Technology**AC 100B Technician Certification Review 5 (3,0,0,0)**

A lecture course to prepare students for certification exam, devoted to all aspects of EPA regulatory requirements under Section 608 of the Clean Air Act.

AC 101B Introduction to HVAC and Refrigeration 3 (2,3,0,0)

This is an introduction course covering the mechanical and electrical functions of a HVAC system and the basic refrigeration cycle. This course will prepare students for the EPA 608 certification.

AC 102B Introduction to HVAC Electrical Theory and Application 5 (4,2,0,0)

This course covers electrical safety, basic electrical math, elementary circuit diagram reading and drawing, and motor theory. Labs cover: assembly and wiring techniques, and the use of electrical meters.

AC 103B Introduction to HVAC Mechanical Theory and Application 5 (4,2,0,0)

This course covers mechanical and electrical safety, basic mechanical math and physics, the refrigeration cycle, system components, enthalpy, and psychrometrics. Labs cover: recovery, evacuation, leak testing, charging, and system measurements.

AC 105B Domestic Refrigeration 2 (1,2,0,0)

The course covers sealed system components, defrost and electrical controls, mechanical servicing of domestic refrigerators, troubleshooting, ice makers, window air conditioners and window air conditioning repair.

AC 106B Residential Gas Heating 5 (4,2,0,0)

Types of gas furnaces, troubleshooting, function of controls, repair of mechanical controls, combustion efficiency tests, piping techniques, proper ventilation and combustion will be covered. Prerequisites: AC 102B, 103B.

AC 108B Recreational Vehicles Refrigerators/Heating and Cooling 2 (1,2,0,0)

This course will deal with all types of recreational vehicle furnaces and air conditioning systems. Proper charging methods of hydrogen ammonia absorption refrigerators will also be covered.

AC 110B Intermediate HVAC Electrical Theory and Application 5 (4,2,0,0)

This course covers intermediate level electrical diagram drawing and interpretation, enthalpy and psychrometrics, and specialized system components for resistance heat HVAC. Labs cover: wiring of various control circuits, and system measurements. Prerequisites: AC 102B, 103B, and MATH 104B or above (except MATH 122 and 123).

AC 111B Heat Pumps 5 (4,2,0,0)

This course covers heat pumps and their operation. It will teach various defrost methods including time temperature, demand, air switch and other defrost controls. Charging methods will be covered which include superheat, weigh-in and dial-a-charge. The course will also include compressor change-out methods and advance wiring. C.O.P., E.E.R., SEER rating and design points of heat pumps are covered. Prerequisite: AC 110B.

AC 112B Air Properties and Air Measurements 3 (3,0,0,0)

Air problems and air measurement are emphasized. Psychrometric properties of air are calculated combining both psychrometrics and air measurement. Psychrometers and various instruments for air measurements are utilized.

AC 114B Heat Load and Duct Design 5 (4,2,0,0)

The course will teach heat gain and loss using the J-Manual and worksheets. Students will be taught to do calculations on microcomputers. Also included in this course are the factors affecting system design and design procedures using Manual-D. Prerequisite: MATH 104B or above (except MATH 122 and 123).

AC 115B Troubleshooting 5 (4,2,0,0)

This course will teach recommended service and diagnostic procedures for air conditioning systems. This will include general troubleshooting procedures for both refrigeration and electrical systems. Prerequisite: AC 111B.

AC 116B Copper Fundamentals 1 (1,0,0,0)

Silver braising, Oxy-Acetylene equipment, use of copper tubing, swagging, flaring, bending, and proper cutting techniques in air conditioning applications will be covered.

AC 119B Professionals in Customer Service 1.5 (1.5,0,0,0)

This course introduces a methodical approach to problem resolution to service professionals (dispatchers, technicians, owners). It is also designed to contain, qualify and correct various problems with good and bad outcomes. This course instructs students to focus on their communication skills prior to using technical expertise. The grading method for this course is pass/fail.

AC 120B Air Conditioning Duct Work Fabrication 3 (2,2,0,0)

This course covers basic duct work fabrication, as it applies to the Air Conditioning industry. Areas covered include cutting, computing size requirements, plenums and straight fittings.

AC 200B Commercial Refrigeration I 5 (4,2,0,0)

An introduction to commercial refrigeration. Deals with system components, mechanical and electrical controls, random and planned defrost, various accessories, application and types of refrigeration systems and troubleshooting basic commercial systems. Prerequisites: AC 110B, and either ENG 107 or COM 115.

AC 201B Automatic Controls 3 (2,2,0,0)

Introduction to fundamentals of air conditioning controls. Electric, pneumatic and electronic components, and applications in air conditioning and refrigeration systems including microprocessors and energy management. Prerequisites: AC 102B, 103B.

AC 202B Commercial Refrigeration II 5 (4,2,0,0)

Follow-up course to AC 200B - Commercial Refrigeration I. Course covers sequence of operation, application, troubleshooting, repair cleaning and preventive maintenance techniques of various types of ice making equipment including flaked, cubed and crushed ice machines.

AC 210B Boiler Operation and Maintenance 3 (2,2,0,0)

Subjects to be covered include operation, safety, water treatment, control devices used with hot water boilers, low pressure boilers and power boiler systems.

AC 211 Transport Refrigeration 2 (1,2,0,0)

This course covers maintenance, diagnosis, and repair of trailer mounted refrigeration systems. Proper refrigerant handling, EPA regulations and certifications are covered and students will be prepared for any required certification processes. Prerequisite: DT 165 or instructor approval.

AC 221B Gas Heat Pump Technology I 5 (4,2,0,0)

The student will learn the basics of gas heat pumps. Included will be an introduction to the various products, controls, and equipment. Basic operational theory and application will be explored as well as an introduction to installations. R-410a, electrical and mechanical safety will also be covered, designed to give the student a good overview of this technology. Prerequisite: AC 111B.

AC 295B Work Experience I 1-16 (0,0,0,15-90)

This course is designed to provide practical experience applying the HVAC (Heating, Ventilation and Air Conditioning) theory and techniques gained in other CSN HVAC courses through on-the-job experience while working alongside experienced HVAC technicians.

Accounting

ACC 105 Taxation for Individuals 3 (3,0,0,0)

Development of the individual taxpayer's taxable income through an analysis of income, exemptions, deductions and credits.

ACC 135B Bookkeeping I 3 (3,0,0,0)

Introduction to the basic principles of bookkeeping and accounting, theory of debit and credit, the bookkeeping cycle, journals, ledgers, bank reconciliations and payroll.

ACC 201 Financial Accounting 3 (3,0,0,0)

Basic accounting techniques with emphasis on the accounting cycle, analysis of financial statements, payables and receivables, plant assets, inventories and internal controls for cash.

ACC 202 Managerial Accounting 3 (3,0,0,0)

Accounting methods and techniques utilized by corporations, cost systems, budgeting, and the utilization of accounting data for planning and control. Prerequisite: ACC 201.

ACC 203 Intermediate Accounting I 3 (3,0,0,0)

Accounting for assets and liabilities, concepts and techniques concerning preparation and analysis of the balance sheet, essentials of interest, annuities and present value. Prerequisite: ACC 202.

ACC 204 Intermediate Accounting II 3 (3,0,0,0)

Accounting for stockholders' equity, statement of cash flows, statement analysis, pensions and leases. Prerequisite: ACC 203.

ACC 205 Cost Accounting 3 (3,0,0,0)

Cost concepts and decision making, break even techniques, budgets and management analysis. Prerequisite: ACC 201.

ACC 210B IRS Computerized Tax Preparation Program 3 (3,0,0,0)

Hands-on experience preparing computerized individual income tax returns utilizing the I.R.S. Electronic Filing System. Prerequisite: ACC 105.

ACC 220 Microcomputer Accounting Systems 3 (3,0,0,0)

Develop skills in the use of computerized accounting. Interact with on-line realistic computerized accounting systems. Primary objective will be to focus on an applications approach using actual business case studies. Prerequisite: ACC 201.

ACC 222B Accounting Using Spreadsheets 3 (3,0,0,0)

Application of spreadsheet functions using the two most popular programs, Excel and Lotus. Techniques covered will be creating and printing a worksheet, working with files, setting up data bases, and enhancing accounting information with the use of graphs and macros. Prerequisite: ACC 201.

ACC 223B Introduction to QuickBooks 3 (3,0,0,0)

Computerized Accounting with QuickBooks is designed to introduce students to the QuickBooks accounting program. The student will receive hands-on training in the use of QuickBooks using fictitious case studies. Prerequisite: ACC 201.

ACC 295B Work Experience I 3 (0,0,0,15)

Cooperative Education course designed to provide the student with on-the-job supervised educationally directed work experience with the accounting program. Student must work a minimum average of 15 hours per week for a total of 225 hours to earn practicum work experience credit. Grade will be given upon verification of employment.

Architectural Design Technology

ADT 100B Introduction to Drafting Theory 3 (2,2,0,0)

An introduction to manual drafting theory as utilized in fields of architecture, interior design and graphic arts. Geometric construction, orthographic projection, elevations and isometric drawings are included. Open lab will be required.

ADT 103B Urban Planning 3 (3,0,0,0)

Introduction to the forces shaping urban development, to include: history and determinants of influence, nature of urban form, comprehensive planning and implementation, zoning, general terms relating to development, State statutes, and local land use controls. Prerequisite: ENG 100, 101, 107, or 113.

ADT 107B Architectural Residential Codes 2 (2,0,0,0)

The main emphasis of this course will be placed on the Residential Building Code. Students will also study portions of the Residential Electrical, Mechanical, Plumbing and Energy Conservation Codes.

ADT 114B History of the Built Environment 3 (3,0,0,0)

This course will discuss the history of architecture and city design in the western and the non-western civilization. The time periods to be covered will be from classical Greek, Hellenistic and Roman, through the Romanesque period, including the events and architecture of non-western civilization happening in the same time frame. The influences these architecture and design philosophies have had on the shaping of civilization will also be discussed.

ADT 201B Introduction to Building Information Modeling 3 (2,2,0,0)

This course introduces students to building information modeling by providing them with the essential tools and concepts for using Autodesk Revit. Students will develop a project from conceptual design to construction documents in a hands-on, scenario-based learning environment.

ADT 202B Intermediate Building Information Modeling 3 (2,2,0,0)

This course covers a wide range of intermediate level topics in Autodesk Revit, continuing to build on the concepts introduced in the Introduction to Revit course. Prerequisite: ADT 201B.

ADT 205B Architectural Environmental Control Systems 3 (3,0,0,0)

This course will help students comprehend the principles of design relating to the creation of habitats that efficiently meet the needs of the intended occupant. Content will include general systems terminology and principles and green building construction. Prerequisites: ADT 107B, GEOG 103.

ADT 210B Residential Structural Technology 3 (2,2,0,0)

This course will help students to apply basic structural principles to problems encountered in the design and construction of residential and light commercial structures not exceeding two stories in height. Prerequisite: EGG 131 or PHYS 151. (Same as CONS 210B.)

ADT 260B Photoshop for Architecture 3 (2,2,0,0)

This course will focus on the architectural specific application of Photoshop as a rendering tool for both hand sketches and CAD drawings using Photoshop, to include: interior and exterior environments. Photoshop is Adobe's flagship image editing software and has numerous uses in the design industry. Prerequisite: CADD 100.

ADT 263B Introduction to Architectural Visualization 3 (2,2,0,0)

This class will explore the simple and powerful combination of using SketchUp to quickly model 3D spaces and the render engine Vray to create photorealistic images for the purpose of effective design communication. Prerequisite: ADT 260B.

ADT 280B Architectural Residential Design 3 (2,2,0,0)

Emphasis will be placed on the conceptual process of designing a residential project. Students will present their final project to a jury of professionals. Prerequisites: ADT 100B, 107B, CONS 120B, AAD 182.

ADT 282B Architectural Residential Design II 3 (2,2,0,0)

A continuation of ADT 280B. Students will develop comprehensive design solutions to challenging residential design briefs. Prerequisite: ADT 280B.

ADT 290B Internship in Architectural Design Technology 1-4 (0,0,0,5-20)

Provide students the unique opportunity to work within selected firms/agencies of the Architectural Design industry, directed by a qualified professional and supervised by the instructor. One credit may be earned for each 5 hours worked per week, to a maximum of 4 credits total. Prerequisite: ADT 201B.

Air Force ROTC

AES 110 The Foundations of the United States Air Force I 1 (1,0,0,0)

A survey course designed to introduce AFROTC cadets and prospective Air Force officers to the Air Force culture. Course describes the heritage and structure of the United States Air Force and the opportunities available to the Air Force corps.

AES 111 AFROTC Leadership Lab I-A 2 (0,4,0,0)

A progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer's environment and culture and opportunities available to commissioned officers. Grades assigned on a pass/fail basis. Corequisite: AES 110 or equivalent.

AES 120 The Foundations of the United States Air Force II 1 (1,0,0,0)

Survey course designed to introduce AFROTC cadets to the leadership aspects of being an Air Force officer and the environment in which the Air Force functions. Course emphasizes the Air Force's core values and other unique characteristics of serving in the United States Air Force. Prerequisite: AES 110 or equivalent.

AES 121 AFROTC Leadership Lab I-B 2 (0,4,0,0)

A progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer's environment and culture and opportunities available to commissioned officers. Grades assigned on a pass/fail basis. Corequisite: AES 120 or equivalent.

AES 230 The Evolution of USAF Air and Space Power I 1 (1,0,0,0)

Survey course designed to trace the development of the U.S. Air Force air and space power through a historical prism. Begins with the study of early flight and concludes with the Korean conflict. Special emphasis is placed on the evolving nature of Air Force capabilities, functions and doctrine.

AES 231 AFROTC Leadership Lab II-A 2 (0,4,0,0)

An in-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focus is on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. Grades assigned on a pass/fail basis. Corequisite: AES 230 or equivalent.

AES 240 The Evolution of USAF Air and Space Power II 1 (1,0,0,0)

Survey course to trace the development of US Air Force air and space power through a historical prism. The course begins with the study of the Vietnam War and concludes with the second war against Iraq. Emphasis is placed on the evolving nature of Air Force capabilities, functions and doctrine. Prerequisite: AES 230 or equivalent.

AES 241 AFROTC Leadership Lab II-B 2 (0,4,0,0)

An in-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focus is on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. AES 241 is required for all cadets applying to attend Field Training. Grades assigned on a pass/fail basis. Corequisite: AES 240 or equivalent.

Academic and Life Success

ALS 101 College Success 3 (3,0,0,0)

Learn strategies for mastering academic and life success. Course topics include change, goal setting, money, time/priority management; test preparation, note-taking, memory techniques; relationships, communication, listening, wellness, diversity and personal responsibility.

American Sign Language

AM 145 American Sign Language I 4 (4,0,0,0)

Designed mainly to introduce ASL and to focus on the development of basic conversational skills, emphasizing receptive abilities.

AM 146 American Sign Language II 4 (4,0,0,0)

The course continues to stress the development of basic conversational skills with emphasis on expanding vocabulary and expressive skills. Prerequisite: AM 145.

AM 147 American Sign Language III 4 (4,0,0,0)

This course promotes the shifting from comprehension to production of ASL, to bring one's current ASL fluency to a point of self-generated ASL. Prerequisite: AM 146.

AM 148 American Sign Language IV 4 (4,0,0,0)

This course encourages the student to expand his or her command of discourse in ASL on various everyday topics. Prerequisite: AM 147.

AM 149 American Sign Language V 4 (4,0,0,0)

A course intended to encourage majors in Deaf Studies to further develop their conversational ASL abilities, particularly in the area of self expression. Prerequisite: AM 148.

AM 151 Fingerspelling I 1 (1,0,0,0)

This course is designed to develop basic skills in receptive and expressive fingerspelling. Prerequisite: AM 147.

AM 152 Fingerspelling II 1 (1,0,0,0)

This course is designed to improve receptive and expressive fingerspelling skills to intermediate/advanced levels. Prerequisite: AM 151.

AM 153 Deaf Culture 3 (3,0,0,0)

This course is designed to introduce students to the American Deaf Culture and definitions of culturally linked terms and philosophies. Prerequisite: AM 147.

AM 154 Deaf History 3 (3,0,0,0)

This course is designed to introduce students to the history of deaf people and the sociological, psychological, educational and political forces which have shaped the field of deafness. Prerequisite: AM 147.

AM 155 Structure of American Sign Language 3 (3,0,0,0)

This course acquaints students with the information and research concerning phonetics, morphology, syntax, semantics, neurolinguistics, psycholinguistics, and sociolinguistics of American Sign Language. This class will be conducted in American Sign Language without voice. Prerequisite: AM 147 or instructor approval.

AM 156 A Survey of Deafness 1 (1,0,0,0)

This survey course provides students an overview of deafness including such topics as career options, deaf culture, language, communication modes, adaptive equipment and causes of deafness.

AM 157 ASL/English Translation 3 (3,0,0,0)

This course is an introduction to the process of working between two languages. Students will analyze textual material and translate from the source into the target language with the goal of maintaining semantic accuracy. Prerequisite: AM 155 or instructor approval.

AM 205 Introduction to Interpreting 4 (4,0,0,0)

An introduction and overview of the profession of sign language interpretation, including standards of practice, Code of Ethics for Interpreters, professionalism, business practices and assessment skills. Prerequisites: AM 145-149, 151, 152 or instructor approval.

AM 206 Consecutive Interpreting 4 (2,4,0,0)

This skills development course focuses on the task of interpretation and transliteration skills between American Sign Language, English, and other communication modes used by deaf people using consecutive interpreting strategies. Prerequisites: AM 145-149, 151, 152 or instructor approval.

AM 207 Simultaneous Interpreting 4 (2,4,0,0)

This skills development course focuses on the task of interpretation and transliteration between American Sign Language, English and other communication modes used by deaf people using simultaneous interpreting strategies. Prerequisite: AM 206.

AM 208 Observation/Practicum in Interpreting 3 (1,0,0,8)

This course provides students opportunities to shadow, observe and interact with professional interpreters in a supervised observation/practicum setting. Class discussions will be held in seminar format. Prerequisite: AM 207.

AM 209 Advanced Interpreting 4 (2,4,0,0)

This course continues the development of skills in interpretation and transliteration in order to prepare students for employment. Emphasis is placed on practical application of theory and process of interpreting in class and lab situations. Prerequisite: AM 207.

AM 210 Specialized Interpreting 2 (2,0,0,0)

This course introduces students to areas of interpreter specialization. Each area of specialization will include vocabulary, techniques, practical text to analyze and interpret. Prerequisite: AM 207.

AM 211 Internship in Interpreting 3 (1,0,0,8)

This course provides internship experiences to students in the final semester of the interpreter preparation program. Site visits will be made by the instructor. Prerequisite: AM 210.

Animation

ANIM 237B Fundamentals of 3D Computer Animation 4 (3,3,0,0)

Introduction to the basic concepts of computer animation. Familiarization with software interfaces, screen layout, coordinate system, commands and files manipulation. Introduction to the creation of objects, cameras, lights, and scenes. Basic editing, mapping, and rendering.

ANIM 240B Intermediate 3D Computer Animation 4 (3,3,0,0)

Introduction to the concepts of story boards, hierarchical linkage of objects, editing of objects and sub-objects, animation controls, kinematics and inverse kinematics and animating materials. Prerequisite: ANIM 237B.

ANIM 242B Introduction to 3D Conceptual Designs 4 (3,3,0,0)

An introduction to the 3D Conceptual Designs in the AEC industry, using 3D Studio Viz and AutoCAD. This course will demonstrate various modeling methods used in the Drafting industry of Architecture, Mechanical, Civil, and Electrical/Electronic design. It will also teach how to create 3D Renderings and Animated Assemblies required in the Drafting and Engineering Industries. Prerequisite: ANIM 240B.

ANIM 244B Introduction to 3D Material Applications 4 (3,3,0,0)

The student will use the material editor of the 3D Studio Max program to apply various bitmaps to the 3D geometric models and adjust the lights, camera, and the material mapping coordinates for rendering a photorealistic scene. Prerequisite: ANIM 240B.

ANIM 245B Advanced 3D Computer Animation 4 (3,3,0,0)

This course will introduce special effects. The student will demonstrate the use of particle systems, space warp, volumetric, compositing effects, network rendering and video post output. Prerequisite: ANIM 240B.

ANIM 247B Introduction to 3D Animation Compositing 4 (3,3,0,0)

Introduction to compositing 3D animated scenes, live video, audio, graphic images, and special effects (SFX) using the latest postproduction software (i.e. Combustion, Premier, After Effects, Studio 7, etc.). Prerequisite: ANIM 240B.

ANIM 250B 3D Character Modeling and Animation I 4 (3,3,0,0)

The student will create organic 3D models; people, plants, animals, etc., and apply bones, metaballs, physique, and bipedal footsteps to the geometry doing the animation process. Prerequisite: ANIM 240B.

ANIM 255B 3D Character Modeling and Animation II 4 (3,3,0,0)

The student will place created organic 3D models into a scene and prepare the scenes for postproduction before outputting to a media type, e.g., film or CD ROM.

Prerequisite: ANIM 250B.

Anthropology**ANTH 101 Introduction to Cultural Anthropology 3 (3,0,0,0)**

An in-depth analysis of culture revealed by world ethnography.

ANTH 102 Introduction to Physical Anthropology 3 (3,0,0,0)

Survey of changes in life through time, with emphasis on the primate order of mammals, including the fossil evidence for primate evolution, in particular, human evolution.

ANTH 104 Great Discoveries in Archaeology 3 (3,0,0,0)

Examination of famous archaeological discoveries and contemporary archaeological fieldwork and analysis. Illustrates archaeology's contribution to modern views of the past.

ANTH 105 Introduction to World Archaeology 3 (3,0,0,0)

Development of human society and technology from the earliest traces of culturally patterned behavior to the emergence of civilization in the Old and New Worlds.

ANTH 106 Introduction to Anthropological Linguistics 3 (3,0,0,0)

Introduction to the anthropological study of language in the context of culture. This course also examines the scientific study of phonology, morphology, syntax, and semantics.

ANTH 112 Social Anthropology 3 (3,0,0,0)

An examination of the application of anthropological concepts to contemporary society. The results of studies of non-western, sociocultural systems used in considering alternate solutions to the problems confronting Western man today will be covered.

ANTH 133 Culture and Communication 3 (3,0,0,0)

Introduction to theory, analysis and practice in understanding culture and its impact on communication. Emphasis on the use of cultural awareness and multicultural sensitivity to improve oral and written communication. (Same as COM 133.)

ANTH 201 People and Culture of the World 3 (3,0,0,0)

A study of human societies and their peculiar institutions as seen in the cultures of various peoples around the world.

ANTH 202 Introduction to Archaeology 3 (3,0,0,0)

An examination of the research goals, theoretical foundations, and methods of anthropological archaeology. Examples are drawn from archaeological sites worldwide, with a Great Basin emphasis.

ANTH 203 Special Topics in Anthropology 3 (3,0,0,0)

Intensive survey of major areas of Anthropology. Topics will vary. May be repeated up to six (6) credits. Prerequisite: ANTH 101.

ANTH 204 Art in Cross-Cultural Perspective 3 (3,0,0,0)

An examination of the visual arts within the context of the culture and social system that gave rise to it. The philosophies of art and the relationship between art and ideology, both in contemporary and past societies are examined. Areas covered include Mesoamerica, Native America, Africa, New Guinea, Upper Paleolithic and other ancient high cultures.

ANTH 205 Ethnic Groups in Contemporary Societies 3 (3,0,0,0)

A survey of ethnic relations in the United States and other societies where cultural and "racial" pluralism illustrates problems and processes of social interaction. Prerequisite: ANTH 101 or SOC 101. (Same as SOC 205.)

ANTH 206 African Culture Through Oral History and Storytelling 3 (3,0,0,0)

An exploration of the different life-ways in various societies of Africa and African Diaspora through oral traditions and folklore.

ANTH 207 Sport and Culture 3 (3,0,0,0)

This course looks at the relationship of sport and culture in past and contemporary world cultures. The course uses western and non-western sports to illustrate the nature of this relationship.

ANTH 209 Gender in Cross-Cultural Perspective 3 (3,0,0,0)

An examination of human gender and sexuality through an investigation of cross-cultural similarities and differences.

ANTH 211 Introduction to the Archaeology of North America 3 (3,0,0,0)

Examines the prehistory of North America from the peopling of the continent to European contact. Particular emphasis is on the prehistory of the Great Basin.

ANTH 212 Introduction to North American Indians 3 (3,0,0,0)

Survey of traditional life and modern conditions of American Indians with emphasis on the western United States.

ANTH 214 Introduction to Mesoamerican Prehistory and Archaeology 3 (3,0,0,0)

The study of prehistoric and protohistoric cultures and areas of Mexico and Central America, including the Aztecs and Mayans.

ANTH 215 Introduction to Faith, Witchcraft and Magic 3 (3,0,0,0)

Introduces students to the anthropological study of religion as a human institution. Examines the history, methods, and current status of the field.

ANTH 216 Cultures Through Film 3 (3,0,0,0)

An exploration of societies, cultures and cultural anthropology through film. Ethnographic and documentary films are shown.

ANTH 217 Drums, Culture and New World Rhythmatism 3 (3,0,0,0)

Explore the complex relationships between culture, rhythm, music, and dance, while learning to sing and play hand drums from around the world. This course will compare and contrast the role and meaning of rhythm and music in traditional cultures with the contemporary global renaissance of drum and dance. In addition to lecture, reading, writing and video, expect a hands-on experiential process involving song, poetry, some movement, and lots and lots of drumming.

ANTH 225 Archaeological Field Methods Survey 3 (3,0,0,0)

Introduction to archaeological field problems, survey, and recording. Study of a variety of archaeological locales including historic, prehistoric and rock art sites.

ANTH 291 Practicum: Group Discussion Leader 2 (1,0,0,4)

This course is designed to introduce the student to skills and facilities of instruction in the college classroom. Prerequisite: ANTH 101.

ANTH 299 Capstone Course in Anthropology 1 (1,0,0,0)

Provides theoretical and practical overview of the field of anthropology in relationship to the Anthropology AA degree and emphasis. Prerequisite: Completion of Anthropology AA degree emphasis course of study.

Arabic

ARA 111 First Year Arabic I 4 (4,0,0,0)

This course is intended to teach the alphabet and sound system of Modern Arabic. It will introduce basic conversation in Egyptian Arabic as well as the cultural norms related to these conversations. It will include basic Arabic vocabulary and an introduction to Arabic grammar.

ARA 112 First Year Arabic II 4 (4,0,0,0)

This course is intended for non-native Arabic speakers who wish to study modern Arabic, including listening, speaking, reading, and writing. The course focuses primarily on Modern Standard Arabic but also includes practice with the spoken Arabic of Egypt. Prerequisite: ARA 111 or permission of the department.

ARA 211 Second Year Arabic I 3 (3,0,0,0)

This course is a continuation of Arabic 112, and is intended for non-native Arabic speakers who wish to study modern Arabic, including listening, speaking, reading, and writing. This course focuses primarily on Modern Standard Arabic but also includes practice with the spoken Arabic of Egypt. Prerequisite: ARA 112 or permission of the department.

ARA 212 Second Year Arabic II 3 (3,0,0,0)

This course is a continuation of Arabic 211, Second Year Arabic I, and is intended for non-native Arabic speakers who wish to study modern Arabic, including listening, speaking, reading, and writing. This course focuses primarily on Modern Standard Arabic but also includes practice with the spoken Arabic of Egypt. Prerequisite: ARA 211 or permission of the department.

Art

ART 101 Drawing I 3 (0,6,0,0)

An introductory studio course emphasizing a disciplined foundation in drawing concepts based on visual observations.

ART 102 Drawing II 3 (0,6,0,0)

Further development of the fundamental drawing skills acquired in Art 101. Emphasis on extending visual concepts, exploring alternate materials and developing compositional devices. Study of various applications of life drawing included. Prerequisite: ART 101.

ART 105 Color Theory 3 (0,6,0,0)

An introduction to color interaction, optical phenomena and their creative application.

ART 106 Jewelry I 3 (0,6,0,0)

Introduction to basic fabricating processes, i.e., sawing and soldering of both common and fine metals. From simple jewelry pieces to setting stones or construction of simple non-jewelry pieces. Includes historical evolution of metal work and student research. Emphasis on knowledge and development of manual skills and personal aesthetic sense.

ART 107 Design Fundamentals I (2-D) 3 (0,6,0,0)

A course in art fundamentals designed to develop a visual language. Emphasis on the application of the elements and principles of pictorial structure, point, line, shape, plane, space and color.

ART 108 Design Fundamentals II (3-D) 3 (0,6,0,0)

An introduction to the principles and elements of sculptural process in a variety of media which may include wood, plaster, clay and metal.

ART 124 Introduction to Printmaking 3 (0,6,0,0)

Introduction to printmaking with emphasis on its creative possibilities. One or several of the basic techniques developed: intaglio, lithography, serigraphy, mono-type and relief printmaking. Prerequisite: ART 101.

ART 127 Watercolor I 3 (0,6,0,0)

An introduction to the opaque and transparent watercolor media and the development of techniques and skills in the manipulation of the medium.

ART 135 Photography I 3 (0,6,0,0)

A beginning course which emphasizes a fine arts and aesthetic approach to the medium. Assignments explore ideas in contemporary art while developing technical and dark-room skills.

ART 141 Introduction to Digital Photography 3 (0,6,0,0)

A beginning course in digital photography that emphasizes a fine arts approach. Technical proficiency and individual exploration are stressed.

ART 142 Introduction to Digital Photography II 3 (0,6,0,0)

Intermediate study of operations and techniques in digital photography such as lighting, exposure and print enhancement. Emphasis placed on development of personal body of work. Prerequisite: ART 141 or instructor permission.

ART 160 Art Appreciation 3 (3,0,0,0)

An introduction to the visual arts. Emphasis will be placed upon the acquisition of the tools and the skills necessary to understand and interpret works of art. Traditional art forms, such as painting and sculpture will be considered as well as newer genres such as installation and performance.

ART 201 Life Drawing I 3 (0,6,0,0)

An introduction to the depiction of the human form with studies in anatomy and pictorial organization. Emphasis on technical skills based on observational studies. Prerequisite: ART 102.

ART 202 Life Drawing II 3 (0,6,0,0)

A continuation of studies of the human form. Emphasis on conceptual development using a variety of materials. Prerequisite: ART 201.

ART 206 Jewelry II 3 (0,6,0,0)

Introduction to the basic techniques of lost wax metal casting (centrifuge and vacuum). Includes information about advanced fabricating techniques with emphasis on personal expression and individual artistic growth. Prerequisite: ART 106.

ART 211 Ceramics I 3 (0,6,0,0)

Basic hand-building techniques are explored as means to produce vessel and sculptural forms along with glaze decoration. Cost of clay is in addition to course fee.

ART 212 Ceramics II 3 (0,6,0,0)

Introduction to basic wheel-throwing techniques to produce vessel forms, surface decorations and glaze application. Cost of clay is in addition to course fee.

ART 216 Sculpture I 3 (0,6,0,0)

An introduction to techniques and concepts in contemporary sculpture which will include casting, carving and constructing.

ART 217 Sculpture II 3 (0,6,0,0)

Intermediate study of techniques and concepts in contemporary sculpture. Prerequisite: ART 216 or instructor permission.

ART 219 Beginning Sculpture Foundry 3 (0,6,0,0)

Beginning techniques and concepts of traditional and contemporary cast metal including mold making, casting, tooling and patination. Prerequisite: ART 216 or instructor permission.

ART 223 Beginning Printmaking: Serigraphy 3 (0,6,0,0)

Introduction to the basic techniques of screenprinting with an emphasis on its creative potential. Prerequisite: ART 101 or 107.

ART 225 Intermediate Printmaking 3 (0,6,0,0)

A continuation of ART 124 with emphasis on color theory, print history and the exploration of personal imagery. Studio projects will be based on individual interests with faculty advisement. Both group and individual critiques will be employed. Prerequisite: ART 124.

ART 226 New Technology Printmaking 3 (0,6,0,0)

Introduction to photo, computer and hand-drawn imagery within the traditional printmaking format. Techniques covered will include: intaglio, lithography, and monotype. Prerequisites: ART 101, 124.



ART 231 Painting I 3 (0,6,0,0)

Introduction to the concepts of painting, including color, form, technical skills and knowledge of materials. Emphasis on the development of aesthetic awareness. Projects will be problem-solving assignments. Prerequisite: ART 101.

ART 232 Painting II 3 (0,6,0,0)

A continuation of ART 231 with an emphasis on conceptual development and individual interests. Prerequisites: ART 101, 231.

ART 235 Photography II 3 (0,6,0,0)

Intermediate level course which explores techniques such as Zone System, night photography, large format and alternate darkroom processes. Emphasis on development of personal body of work and exploration of contemporary photography. Includes field trips. Prerequisite: ART 135.

ART 243 Digital Imaging I 3 (0,6,0,0)

An introduction to the concepts and practices of computer imaging and the use of related media with emphasis on creative applications of digital technology. Prerequisite: ART 101 or 107.

ART 244 Digital Imaging II 3 (0,6,0,0)

Advanced application of the concepts and practice of computer imaging and the use of related media with emphasis on creative applications of digital technology. Prerequisite: ART 243.

ART 245 Digital Media I 3 (0,6,0,0)

Exploration of various digital media in the creation of art.

ART 253 Cinema II/The Sound Era 3 (3,0,0,0)

This introductory course identifies creative use of film-making techniques and surveys the major genres of film since the 1930s. Main genres explored include the Western, Crime, Horror, Musical, Science Fiction, War, Comedy, Action-Adventure and Foreign. In-class films, class critiques, field trip.

ART 260 Survey of Art History I 3 (3,0,0,0)

A survey of Western art and architecture from the prehistoric era to the beginning of the Renaissance.

ART 261 Survey of Art History II 3 (3,0,0,0)

A survey of painting, sculpture and architecture in the West from the Renaissance through the modern era.

ART 262 Survey of Asian Art 3 (3,0,0,0)

An introduction to the art and architecture of Asia including India, Tibet, China, Korea, Japan, and Southeast Asia, through an exploration of the major religious and secular artistic traditions from Neolithic to Modern times. Slide lectures, video/film, discussions and museum field trip.

ART 263 Survey of African, Oceanic, and Native American Art 3 (3,0,0,0)

An introduction to the arts and architecture of Tribal Africa, Oceania and Aboriginal Cultures, and Native America. Slide lectures and class discussion. Field trips.

ART 264 Survey of American Art 3 (3,0,0,0)

Survey of the art and architecture of the United States from the colonial period through the late 20th century. Slide lectures, discussions and videos.

ART 265 Introduction to Contemporary Art 3 (3,0,0,0)

Survey of the major art forms and movements since World War II and of the critical and cultural milieu in which they developed.

ART 267 Pre-Columbian Art and Architecture 3 (3,0,0,0)

Studies the art and architecture of the numerous traditions and cultures of South and Meso America and the examination of the effects of European contact and later developments in the ancient Southwest.

ART 270 Women in Art 3 (3,0,0,0)

This course will explore the contributions women have made to Western art from the Middle Ages through the present. Among the topics we shall consider are: works of art produced by women artists and the historical circumstances in which they were produced; how women have been represented by Western artists, both male and female; and the role women have played in Western culture as art patrons and art collectors.

ART 275 Survey of History of Photography 3 (3,0,0,0)

Introduction to the artistic development of photography from early inventions as a technique to its use as a fine art. Considered also is relationship of photography to Modern Art movements and mass media. Slide lectures, discussion and field trips.

ART 278 Art and Photography in 20th Century Mexico 3 (3,0,0,0)

This course examines the contributions made by Mexican artists and photographers to 20th century visual culture. The focus is on the "Mexican Renaissance" of the 1920s and 1930s: in particular, the revival of the fresco tradition and the effect it had on artistic production. Other topics include: the print tradition, easel painting, and the development of Mexican photography. (Same as PHO 278.)

ART 298 Portfolio Emphasis 3 (0,6,0,0)

Participants will develop portfolios, documents and verbal skills necessary for the college transfer or job acquisition in the fine arts field. Class will cover development of professional portfolio, résumé, artists' statement and marketing strategies in art. Twelve (12) hours of Art credits strongly recommended for entry into this course.

Astronomy

AST 101 General Astronomy 3 (3,0,0,0)

An elementary course which considers the solar system, stellar systems and stellar and galactic evolution according to currently accepted concepts. This course designed for non-science majors with little or no background in science or mathematics.

AST 103 Introductory Astronomy: The Solar System 3 (3,0,0,0)

A survey course at the beginning level which discusses the nearby objects of our solar system, the formation and evolution of planetary bodies and the exploration of space. A minimum of mathematics is required, in the tradition of the amateur astronomer. Recommended for non-science majors.

AST 104 Introductory Astronomy: Stars and Galaxies 3 (3,0,0,0)

A survey course at the beginning level which discusses stellar systems and galaxies. Topics include stellar evolution, formation of galaxies and cosmology. A minimum of mathematics is required, in the tradition of the amateur astronomer. Recommended for non-science majors.

AST 105 Introductory Astronomy Laboratory 1 (0,3,0,0)

Course provides practical experience in observational astronomy including telescopic observations and laboratory exercises. AST 105 fulfills the lab science elective for any degree program. Should be taken with or after taking AST 101 or AST 103 or AST 104. Prerequisite: MATH 095 or above.

AST 299B Directed Study 1-3 (0,3-9,0,0)

Covers selected topics and directed student research of interest to students in astronomy. Prerequisite: Instructor approval.

Automotive Technology

AUTO 105B Automotive Maintenance I 4 (1,6,0,0)

Students will learn basic operation of the major automotive systems, safety procedures, tool and equipment usage and using electronic service information while performing lubrication, tire and basic maintenance service procedures. Test-out exam is available through the Transportation Technologies program office.

AUTO 115B Automotive Electricity and Electronics I 4 (1,6,0,0)

This course will introduce the operation of AC and DC electrical circuits, wiring diagrams and the use of Digital Multimeters and diagnosis of circuit malfunctions including battery, starting, charging and accessory systems. Prerequisite: AUTO 105B.

AUTO 117B Advanced Automotive Electronics 4 (1,6,0,0)

Operation, diagnosis and repair of automotive electrical circuits including lighting and convenience accessories, instrument cluster/gauges, supplemental restraint systems, audio, cruise and anti-theft systems. Prerequisite: AUTO 115B.

AUTO 136B Engine Repair 5 (2,6,0,0)

Students will learn to identify engine components and their operation, accurately use precision measuring tools, perform disassembly/assembly and maintenance procedures of engines, cooling systems and lubrication systems. Diagnosis of engine condition, leaks, and abnormal noises are emphasized. Prerequisite: AUTO 105B.

AUTO 145B Automotive Brakes 4 (1,6,0,0)

Facilitate the theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Prerequisite: AUTO 115B.

AUTO 155B Steering and Suspension 4 (1,6,0,0)

Diagnose and service of steering and suspension components, tire service, balancing, and advanced alignment procedures. Identify components and perform service procedures for electronic steering systems. Prerequisite: AUTO 105B.

AUTO 165B Automotive Heating and Air Conditioning 4 (1,6,0,0)

Service, operation, diagnosis and repair of automotive heating and air conditioning system components, including automatic temperature control systems. All refrigerant types are covered. Emphasis is placed on service and troubleshooting. Prerequisite: AUTO 115B.

AUTO 175B Recreational Vehicle Service Repair 3 (2,2,0,0)

This course provides instruction in the maintenance and repair of the following recreational vehicle components: electrical, refrigeration and water systems, power generators and accessories.

AUTO 177B Recreational Vehicle Service Repair II 4 (1,6,0,0)

This course provides instruction in maintenance and repair of the following recreational vehicle components; air conditioning, heating, LP gas, cooking appliances and leveling systems. Prerequisite: AUTO 175B.

AUTO 185B Introduction to Alternative Fueled Vehicles 3 (3,0,0,0)

This course will familiarize students with the alternative fuels movement and the laws, regulations and programs affecting alternative fuels. The design and operation of alternative gaseous, liquid, bio-fuels, hydrogen, hybrid, electric vehicles and emerging technologies will be covered. Prerequisite: AUTO 117B or instructor approval.

AUTO 205B Manual Drivetrain and Axles 4 (1,6,0,0)

Operation, diagnosis, maintenance, repair of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Prerequisite: AUTO 105B.

AUTO 216B Automatic Transmissions 5 (2,6,0,0)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Prerequisite: AUTO 117B.

AUTO 225B Engine Performance I/ Fuel and Ignition 4 (1,6,0,0)

Theory, function, service and analysis of engine related sub-systems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Prerequisites: AUTO 117B, and 136B.

AUTO 227B Engine Performance II/ Emission Control 4 (1,6,0,0)

Study of automotive emission control systems including an overview of State of Nevada license requirements. Utilization of current gas analyzers, diagnosis of emission test failures. Prerequisite: AUTO 225B.

AUTO 235B Engine Performance III/ Diagnostics 4 (1,6,0,0)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and driveability concerns. Use of Digital Storage Oscilloscopes, current ramping, scan tool analysis and 4 and 5 gas analyzers is mastered. Prerequisite: AUTO 227B.

AUTO 240B Nevada 1G Emission Inspection Preparation 2 (2,0,0,0)

This course meets the initial State of Nevada training requirements for those individuals wishing to become a Nevada 1G emission inspector.

AUTO 242B Nevada 2G Technician Preparation 3 (3,0,0,0)

Course reviews compression, ignition, electrical, air fuel delivery, and emission control devices modules. Specifically designed to prepare experienced technicians to successfully complete the certification examination.

AUTO 244B Nevada 2G Re-Certification 2 (2,0,0,0)

This is a state approved course that qualifies under both the 12-hour and the 20-hour training requirements for the State of Nevada 2G repair technician re-certification. Under the current state guidelines, students completing this course and receiving a grade of 80% or higher on the final exam qualify for Nevada Class 2G Re-certification

AUTO 245B Power Train Removal and Replacement 4 (1,6,0,0)

Students will complete removal and installation of major automotive components including the engine assembly, transmission/transaxle assembly, differential and transfer case. Prerequisite: AUTO 136B.

AUTO 276B Nevada Class II Emissions, Compression and Ignition 2 (2,0,0,0)

Provides experienced technicians with a review of compression basics, ignition basics, ignition timing theory, diagnostic equipment use, oscilloscope waveform patterns and repair manual use.

AUTO 277B Nevada Class 2G Emissions, Electrical 2 (2,0,0,0)

Meets State of Nevada training requirements for the electrical module on the class 2G repair certification examination. State of Nevada approved.

AUTO 278B Nevada Class 2G Emissions, Air/Fuel Delivery 2 (2,0,0,0)

Meets State of Nevada training requirements for the Air/Fuel Delivery and Computer Engine Controls modules on the class 2G repair certification examination. State of Nevada approved.

AUTO 279B Nevada Class 2G Emissions, Emission Control Devices 2 (2,0,0,0)

Meets State of Nevada training requirements for the Emission Control Devices Module. State of Nevada approved.

AUTO 285B Hybrid Vehicle Service Techniques 4 (1,6,0,0)

This course will cover safety procedures, design, operation, diagnosis and repair of all classification of hybrid electric vehicles. Each student must possess legal Class "O" HV gloves and liners to attend this class. Prerequisite: AUTO 185B.

AUTO 291B, 292B, 293B, 294B Work Experience I, II, III, IV 1-4 (0,0,0,5-20)

Cooperative education courses, designed to provide the student with on-the-job supervised and educationally directed work experience. Each course except AUTO 294B will have a prerequisite of successful completion of the preceding Work Experience course. One credit may be earned for each 5 hours worked per week during the semester up to a maximum of 4 credits per semester, not to exceed 16 credits total. Prerequisite: Instructor approval.

Aviation

AV 100B Aviation Orientation 3 (3,0,0,0)

This course will introduce students to the history and development of flight, basic aircraft principles, the aviation industry, and career opportunities within the industry.

AV 105B Airport Operations 3 (3,0,0,0)

An introduction to the principles of airport operations. Topics include management functions, airport classification, organizational structures, flight operations, maintenance operations and their relationship with commercial airlines, corporate flight operations, air cargo and general aviation. Pertinent Federal Aviation Regulations governing airport operations will be emphasized.

AV 107B Airline Flight Operations 3 (3,0,0,0)

An introduction to the operational aspects of airline flight operations. Topics include management functions, organizational structure and personnel requirements with regard to airlines, commuter, air-taxi and instructional flight operations. The complex area of operational techniques utilized by airlines, and business strategies airlines face today will be discussed. Pertinent Federal Aviation Regulations governing airline operations will be emphasized.

AV 110B Private Pilot Ground School 4 (4,0,0,0)

A study of aviation fundamentals including principles of flight, aircraft and engine operations, weather, navigation and radio communication as required by FAA (Federal Aviation Administration) regulations. This course will prepare the student to take the FAA Private Pilot Airplane Certificate Knowledge exam.

AV 111B Private Pilot Certification Lab 3 (0,6,0,0)

Students will begin flight training with an FAA (Federal Aviation Administration) Certified Flight Instructor. Training will include all skills necessary to pass the FAA Private Pilot Airplane Certificate Practical exam. Corequisite: AV 110B.

AV 112B Human Factors and Safety 3 (3,0,0,0)

This course will study the effects of human factors on pilot performance and safety including education and training, the aviation environment and pilot mental and physical condition.

AV 114B Advanced Navigation and Flight Planning 3 (2,2,0,0)

Flight navigation concepts are mastered through application of instruments and navigational aids considering aircraft performance, navigation resources, weather components, and flight planning and operating limitations for aircraft. Prerequisite: AV 110B.

AV 115B Aviation Meteorology 3 (3,0,0,0)

This course deals with atmospheric conditions and the effect on aeronautical applications. Weather development patterns and observations from the pilot's point of view will be emphasized.

AV 210B Instrument Ground School 4 (4,0,0,0)

Aspects of instruction will include the aeronautical knowledge areas as determined by the Federal Aviation Administration for the Instrument Rating – Airplane. This course will prepare eligible students to take the FAA Instrument Rating – Airplane Knowledge Exam. Course may be taken as an IFR refresher or to enhance knowledge of IFR flight operations. Prerequisite: AV 110B.

AV 212B Instrument Certification Lab 3 (0,6,0,0)

Students will begin flight training with an FAA Certified Flight Instructor – Instrument. Training will include all skills necessary to pass the FAA Instrument Airplane Practical Exam. Prerequisite: AV 111B.

AV 214B Aerodynamics 3 (3,0,0,0)

Study of basic aerodynamic theory. Covers wing design and theory, lift analysis and drag criteria, and basic performance criteria calculations. The effects of low and high speed flight configurations are examined. Prerequisite: AV 110B.

AV 215B Crew Resource Management 3 (3,0,0,0)

This course will cover the common concepts and application of Crew Resource Management (CRM) as it applies to professional pilots, general aviation pilots, cabin crews, maintenance personnel, aircraft dispatchers, and air traffic controllers will be studied, emphasizing the human interface and accompanying interpersonal activities that involve decisions required to operate a flight safely. Topics such as risk assessment, management, error prevention and mitigation, and automation issues will be studied, using case studies, accident analysis and practical application exercises.

AV 220B Air Transportation 3 (3,0,0,0)

This class surveys the regulations of the aviation industry at the state, federal, and international levels. Historical events and how they impact current and past legislation will be studied. Students will also investigate the impact of legislation and treaties on the aviation industry, such as deregulation, international alliances and agreements.

AV 240B Advanced Aircraft Systems 3 (3,0,0,0)

Course covers the different types of commercial aircraft, and their various operational, instrumentation, electrical, electronic, fuel, and mechanical systems. The course will also cover principles of operations, and commercial aircraft structure and avionics. Mathematical calculations for determining large aircraft weight and balance will also be presented. Prerequisite: AV 110B.

AV 250B Commercial Pilot Ground School 4 (4,0,0,0)

This course prepares students to take the FAA Commercial Pilot Knowledge Exam. Aspects of instruction will include the aeronautical knowledge areas as determined by the Federal Aviation Administration for the Commercial Pilot Certificate. Prerequisite: AV 110B.

AV 251B Commercial Pilot Certification Lab 3 (0,6,0,0)

Students will begin flight training with an FAA (Federal Aviation Administration) Certified Flight Instructor – Advanced. Training will include all practical skills necessary for an FAA Commercial Pilot Certificate. Prerequisite: AV 111B.

Building Inspection

BI 101B Introduction to Building Codes 4 (4,0,0,0)

Introduction to International Building Code for students in fields where a basic knowledge of code requirements are necessary. Course is oriented toward IBC certification preparation.

BI 107B Introduction to the Energy Conservation Code 1 (1,0,0,0)

This course is for students needing a basic knowledge for energy conservation. Course will include: R-value for ceiling, wall, floor and door efficiency, U-factor for window efficiency, HVAC efficiency, water conservation efficiency and green building construction.

Biology

BIOL 095 Basic Biology 3 (3,0,0,0)

An introduction to the principles of math, chemistry, cell biology, energetics, and molecular genetics designed to prepare students for college freshman biology. The application of study skills to biology courses will also be emphasized. This course is non-transferable.

BIOL 101 Biology for Non-Majors 4 (3,3,0,0)

An introduction to biology with emphasis on human concerns. Topics include aspects of organism structure, function, ecology, and evolution which provide a biological perspective for issues facing modern society. Intended to satisfy the lab science general education requirement.

BIOL 103 Biology Laboratory 1 (0,3,0,0)

Entry by departmental authorization only.

BIOL 112 Introduction to Animal Behavior 3 (3,0,0,0)

Introduction to invertebrate and vertebrate animal behavior, its description, role, genetic and evolutionary basis, and methods of study. Designed as a general education, non-majors course.

BIOL 113 Life in the Oceans 3 (3,0,0,0)

An introduction to the environment and inhabitants of the sea.

BIOL 116 Natural History 3 (3,0,0,0)

This course explores the ways living organisms survive in nature and demonstrates how each organism illustrates the principles of ecology and evolution.

BIOL 120 Plants and People 3 (3,0,0,0)

An introduction for non-biology majors to the social, cultural, and economic role of useful and harmful plants and plant products in modern society. Consideration is given to the origin, history and human value of selected plants, especially those used for food, medicine and industrial raw materials, or in religious rites.

BIOL 121 Human Nutrition 3 (3,0,0,0)

Description of the nature and role of carbohydrates, lipids, proteins, water, vitamins and minerals in the human body. Energy relationships and various controversies in nutrition are examined, as well as relationships between nutrition, health and disease.

BIOL 122 Desert Plants 3 (2,3,0,0)

A study of the typical desert plant community types in the United States and the identification of their more common species. Explores adaptations to aridity and the nature, origin and occurrence of arid environments.

BIOL 189 Fundamentals of Life Science 4 (3,3,0,0)

Survey of contemporary biology topics including biochemistry, cell structure and function, cellular metabolism, physiology, and genetics. For Health Science majors who require biology as part of their professional career preparation.

BIOL 196 Principles of Modern Biology I 4 (3,3,0,0)

A study of the basic characteristics of living systems including the chemical and physical structure of cells, classification of living organisms and principles of genetics, ecology and evolution. This course is designed for science, biological science and preprofessional majors.

BIOL 197 Principles of Modern Biology II 4 (3,3,0,0)

A survey of major groups of organisms presented in an evolutionary context, including natural selection, biodiversity, structure and function, reproduction, physiology, and ecology. Prerequisite: BIOL 196.

BIOL 202 General Botany 4 (3,3,0,0)

An introduction to the development, anatomy, physiology, diversity and evolutionary relationships of the major plant groups. Prerequisite: BIOL 196.

BIOL 208 Introduction to Human Genetics 3 (3,0,0,0)

Non-majors, general education course covering hereditary principles applied to human inheritance and their implications for human affairs. Study of selected examples of human traits. Prerequisite: BIOL 101 or higher.

BIOL 211 Introduction to Field Biology 4 (3,3,0,0)

An introduction to field safety, navigation, species diagnosis, data collection, survey techniques, and regulations associated with field biology. Outdoor field work required. Prerequisite: BIOL 197.

BIOL 214 Molecular Processes 3 (3,0,0,0)

An introduction to concepts of DNA replication, transcription, translation, the control of gene expression, and DNA recombinant technologies. Will also include comprehensive study of both prokaryotic and eukaryotic nuclear structure and cell protein structure/function. Prerequisites: BIOL 196.

BIOL 220 Introduction to Ecological Principles 3 (3,0,0,0)

An introduction to the major principles and underlying processes of organismal, population, community and ecosystem ecology. (Same as ENV 220.)

BIOL 223 Human Anatomy and Physiology I 4 (3,3,0,0)

A detailed study of the anatomy and physiology of human cells and tissues and the integumentary, skeletal, muscular and nervous systems. Designed for allied health majors. Prerequisite: Grade of "C" or better in BIOL 189.

BIOL 224 Human Anatomy and Physiology II 4 (3,3,0,0)

A detailed study of the anatomy and physiology of the human body. Topics include the circulatory, respiratory, digestive, urinary, endocrine and reproductive systems. This course is designed for allied health majors. Prerequisite: BIOL 223.

BIOL 251 General Microbiology 4 (3,3,0,0)

Survey of the distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. Topics in microbial genetics, human disease and immunology are also explored. Recommended for all allied health and preprofessional majors. Prerequisite: Grade of "C" or better in BIOL 189.

BIOL 251H General Microbiology - Honors 4 (3,3,0,0)

Topics include prokaryotic cell structure, function, metabolism, genetics, phylogenetic classification, diversity, relation to plants/animals/humans and pathogenesis, ecology and evolution, environmental and applied microbiology, agents, and eukaryotic microorganisms. Emphasis is on bacterial metabolic strategies to include aerobic and anaerobic metabolism, chemolithotrophy, phototrophy, and role in biogeochemical cycles, ecological diversity, genetics and phylogeny/evolution, and human-microbe interactions and infectious disease. Three hours lecture and three hours laboratory. Prerequisite: Grade of "C" or better in BIOL 196.

BIOL 299 Selected Topics in Biology 1-4 (0,3-12,0,0)

Covers selected topics of interest to students in the biological sciences. Prerequisite: Instructor approval.

Construction Technology**BTE 116B Electrical Theory and Applications 1 3 (2,3,0,0)**

Items covered in this course will include: electrical fundamentals, basic electricity, electrical circuits, electrical systems and protection, alternating current, motors, generators, transformers, grounding and bonding. The OSHA 10-hour construction standard card is required for this course. Corequisites: CONS 105B, 120B.

BTE 120B Electrical Theory and Applications 2 3 (2,3,0,0)

Items covered in this course will include: introduction to the National Electrical Code, requirements for electrical installations, wiring and protection devices, wiring methods and materials and equipment for electrical use. Corequisite: MATH 116. Prerequisite: BTE 116B.

BTE 130B Electrical Theory and Applications 3 3 (2,3,0,0)

Items covered in this course will include: special electrical occupancies, special electrical equipment, special electrical conditions and communications. Prerequisite: BTE 116B.

BTE 210B Electrical Theory and Applications 4 3 (2,3,0,0)

Items covered in this course will include: basic electrical theory, electrical calculations, advanced electrical calculations and motor control basics. Prerequisites: BTE 120B, 130B, MATH 116.

BTFS 110B Fire Sprinkler Theory and Applications 1 3 (2,3,0,0)

Items covered in this course will include: introduction to fire sprinkler components and systems, underground piping, general purpose valves, standard spray fire sprinklers, wet fire sprinkler systems and dry pipe fire sprinkler systems. Prerequisite: BTP 115B.

BTFS 210B Fire Sprinkler Theory and Applications 2 4 (3,3,0,0)

Items covered in this course will include: deluge and preaction systems, standpipes, water supplies, fire pumps, application-specific sprinklers, inspection, testing and maintenance, special extinguishing systems, procedures and documents. Prerequisite: BTFS 110B.

BTLV 110B Low-Voltage Theory and Applications 1 3 (3,0,0,0)

Items covered in this course will include: electrical fundamentals, basic electricity, electrical circuits, electrical systems and protection, alternating current, motors, generators, transformers, grounding and bonding. The OSHA 10-hour construction standard card is required for this course. Corequisites: CONS 105B, 120B.

BTLV 120B Low-Voltage Theory and Applications 2 4 (3,3,0,0)

Items covered in this course will include: DC circuit, AC circuit, switching devices, timers, semiconductors, integrated circuits, test equipment, cable selection, wire and cable termination and power quality and grounding. Corequisite: MATH 116. Prerequisite: BTLV 110B.

BTLV 130B Low-Voltage Theory and Applications 3 4 (3,3,0,0)

Items covered in this course will include: networks, fiber optics, wireless communication, rack assembly, system commissioning, maintenance, repair and fundamentals of leadership. Prerequisite: BTLV 120B.

BTLV 210B Low-Voltage Theory and Applications 4 5 (4,2,0,0)

Items covered in this course will include: fire alarm systems, intrusion detection systems, audio systems, nurse call and signaling systems, CCTV systems, broadband systems, access control systems, systems integration, media management systems and telecommunications systems. Prerequisite: BTLV 130B.

BTP 101B Building Trades Plumbing - Level I 3 (2,3,0,0)

Items covered in this course will include: plumbing history, hand tools, piping materials, safety rules, mathematics, measuring tapes, folding rules, scale rulers, sewage disposal, introduction to gasses and pressure pipe and fittings.

BTP 102B Building Trades Plumbing - Level II 3 (2,3,0,0)

Items covered in this course will include: mathematics (percent and decimals), job safety (OSHA), typical plumbing fixtures, fittings and valves and introduction to blueprint reading and drawings. Prerequisite: BTP 101B.

BTP 103B Building Trades Plumbing - Level III 3 (2,3,0,0)

Items covered in this course will include: water distribution systems, mathematics, offsets and formulas and drain, waste and vent piping systems. Prerequisite: BTP 102B.

BTP 104B Building Trades Plumbing - Level IV 3 (2,3,0,0)

Items covered in this course will include: basic welding, rigging and hoisting, scheduling rough-in sheets and advance blueprint reading and drawings. Prerequisite: BTP 103B.

BTP 105B Building Trades Plumbing - Level V 3 (2,3,0,0)

Items covered in this course will include: residential and commercial plumbing fixtures and appliances, residential and commercial plumbing fixture fittings and trim, residential and commercial rough and finish plumbing installations, National Fuel Gas Code, mathematics, local gas codes and inspections and testing. Prerequisite: BTP 104B.

BTP 106B Building Trades Plumbing - Level VI 3 (2,3,0,0)

Items covered in this course will include: storm drainage, sizing storm drains, piping expansion, energy and temperature control, water heaters, water treatment, basic electricity, electrical safety and blueprint reading. Prerequisite: BTP 105B.

BTP 107B Building Trades Plumbing - Level VII 3 (2,3,0,0)

Items covered in this course will include: repair service and sizing of sanitary drainage, venting systems, storm drainage potable water systems, gas piping, indirect waster systems (I, II and III), interceptors and backwater valves and protection of water supply, air gaps, vacuum breakers and heating systems. Prerequisite: BTP 106B.

BTP 108B Building Trades Plumbing - Level VIII 3 (2,3,0,0)

Items covered in this course will include: hydraulic theory, pump theory, types, installation and maintenance, isometric drawings and plumbing code review. Prerequisite: BTP 107B.

BTP 115B Plumbing Theory and Applications 1 3 (2,3,0,0)

Items covered in this course will include: plumbing history, plumbing tools, piping materials, fixtures and faucets, drains, waste and vents (DWV) systems and water distribution systems. The OSHA 10-hour construction standard card is required for this course. Corequisites: CONS 105B, 120B.

BTP 120B Plumbing Theory and Applications 2 3 (2,3,0,0)

Items covered in this course will include: hangers, supports, structural penetrations, fire stopping, installing and testing DWV piping and water supply piping, drains, fixtures, valves, faucets, water heaters and fuel gas systems. Corequisite: MATH 116. Prerequisite: BTP 115B.

BTP 130B Plumbing Theory and Applications 3 3 (2,3,0,0)

Items covered in this course will include: sizing water supply piping, potable water treatment, back flow preventers, various types of venting, sizing DWV and storm systems, sewage pumps and sump pumps, corrosive resistant waste piping and compressed air. Prerequisite: BTP 120B.

BTP 210B Plumbing Theory and Applications 4 3 (2,3,0,0)

Items covered in this course will include: leadership skills, water pressure and recirculation systems, indirect and special waste, hydronic and solar heating systems, private water well systems, private waste disposal systems, swimming pools and spas. Prerequisite: BTP 130B.

BTPV 101B Photovoltaic Fundamentals 4 (3,3,0,0)

This course will give students a fundamental knowledge of Photovoltaic (PV) systems, to include: PV markets and applications, safety, basic electrical, solar energy fundamentals, PV module fundamentals, system components, PV system sizing principles, PV system, electrical and mechanical design, performance analysis and maintenance and troubleshooting. The OSHA 10-hour construction standard card is required for this course. Prerequisite: BTE 116B or Program Director permission.

BTPV 102B Photovoltaic Design and Sales 4 (3,3,0,0)

Items covered in this course will include: examining customers current electrical usage, surveying site roof condition, orientation of the roof, potential shading issues, placement of electrical equipment, solar conditions and estimating basic system design for sizing of PV systems. Prerequisite: BTPV 101B or Program Director permission.

BTPV 201B Photovoltaic Onsite Training 4 (2,4,0,0)

This course will provide the students the opportunity to work in the photovoltaic industry, supervised by a qualified professional and directed by the instructor. Prerequisite: BTPV 102B or Program Director permission.

BTW 101B Basic Weatherization 4 (3,3,0,0)

This course will focus on demonstration and hands-on application of weather stripping, insulation, ventilation, glazing, caulking, tools, safety, duct work solutions, air sealing measures, accessing attics and weatherization tactics, including construction technology and lecture and lab exercises. The OSHA 10-hour construction standard card is required for this course. Prerequisite: CONS 120B or Program Director permission.

BTW 103B Blower Door and Combustion Appliance Safety 2 (2,0,0,0)

Items covered in this course will include: procedures to determine if an appliance drafts properly, correct use of digital monometer, draft gauges and chemical smoke and techniques for resolving pressure problems. This course prepares students to accurately identify existing problems and predict if house tightening or duct repair will create new problems or make existing problems worse. Prerequisites: BTW 101B, MATH 116.

BTW 105B Lead and Mold Safety 2 (1,3,0,0)

Items covered in this course will include: methods, techniques, personal protection, engineering controls and proper clean-up procedures while being exposed to the hazards of mold and lead base paint. This course will prepare students for the EPA certification as a Certified Renovator.

BTW 201B Building Performance 4 (3,3,0,0)

This course is designed to provide the knowledge and hands-on experience necessary to prepare professionals conducting weatherization assessments and inspections and will prepare students for the Building Performance Institute (BPI) energy auditor's exam. Prerequisite: BTW 103B.

Business Management

BUS 101 Introduction to Business 3 (3,0,0,0)

Designed to build a business foundation and to give students a broad background of modern business principles. Course will introduce students to the business profession by incorporating and integrating business knowledge and information across departmental curriculum lines to enhance the overall comprehension of the business world. Class projects are assigned to promote team work among students to use their own capabilities in utilizing all educational aspects.

BUS 102B Entrepreneurship and Innovation 3 (3,0,0,0)

Practical overview of business start up, planning, preparation, and risk assessment. Concentration on business plan formulation including acquiring financing, personnel selection, sales and marketing.

BUS 106B Business English 3 (3,0,0,0)

Utilizes previous English language experience to train students in the basic skills of business communication in both oral and written form. Excellent foundation for Business Letters/Reports. Prerequisite: ENG 100 or 101 with a grade of "C" or better.

BUS 107 Business Speech Communication 3 (3,0,0,0)

Designed to provide students with the opportunity to develop speaking and listening skills necessary for successful on-the-job communications. Emphasizes interpersonal and organizational communications such as interviewing, small group dynamics and oral presentations.

BUS 108 Business Letters and Reports 3 (3,0,0,0)

Designed to develop conceptual skills in all types of written and oral business communications, furnish practical applications of these skills, and acquaint the student with tools and techniques required to communicate in the real world of business. Prerequisite: ENG 100 or 101 with a grade of "C" or better.

BUS 109B Business Mathematics 3 (3,0,0,0)

Fundamental mathematical processes for the business person and the consumer are reviewed. Discounts, commissions, depreciation, overhead and interest rates are studied.

BUS 271 Introduction to Employment Law 3 (3,0,0,0)

The study of federal and state labor law and employment law and how it impacts employers, employees and the American workforce.

BUS 272 Legal Environment 3 (3,0,0,0)

Nature and function of law, legal systems, constitutional law, administrative law, antitrust, consumer protection, torts and product liability.

BUS 273 Business Law I 3 (3,0,0,0)

A study of the law as it applies to contract sales and commercial paper.

BUS 274 Business Law II 3 (3,0,0,0)

A study of law as it applies to secured transactions, agency, employment, partnerships, corporations and property.

BUS 275B Fundamentals of International Business 3 (3,0,0,0)

This course will introduce the student to the exciting world of International Business. It will examine the following: direct focus on the development of management skills in handling problems of multinational business; analysis of problems stemming from the movement of goods, services, human resources, technology, finance, and ownership across national boundaries. Prerequisite: BUS 101.

BUS 280B Legal Aspects of International Business 1-3 (1-3,0,0,0)

An introductory overview of International Law divided into three week topical sections of related business and legal aspects designed to emphasize international imports and exports, treaties and remedies. The student may select all or one of the sections; one credit per section.

BUS 284B Internship in International Business 3 (3,0,0,0)

Students in this program will work with experienced business people to assist them as well as to learn about international activities.

Computer Aided Drafting and Design

CADD 100 Introduction to Computer Aided Drafting 3 (2,3,0,0)

This is a continuation of Drafting Fundamentals. The student will be introduced to the basic operation of a CADD workstation using AutoCAD software in a Microsoft Windows environment to produce two-dimensional design drawings. Students should be knowledgeable in the windows operating system.

CADD 105 Intermediate Computer Aided Drafting 3-4 (2,2,0,0)

This course is a continuation of CADD 100, introducing the student to the automated features of a CADD workstation, using industry standard CADD software to produce two-dimensional design drawings. Additional lab hours are required. Prerequisite: CADD 100.

CADD 210B CADD Project 3-4 (2,4,0,0)

Project application in a specific discipline. Experience in creating construction documents for construction or manufacturing using a computer-aided drafting workstation. Prerequisite: CADD 105.

CADD 245 Solid Modeling and Parametric Design 3 (2,3,0,0)

Provides training and instruction in using parametric solid modeling software to create solid model parts, assemblies and working drawings. SolidWorks software will be used for this class.

CADD 250 CAD Systems Management 3-4 (3,2,0,0)

Management of computer aided design and drafting workstations. Hardware and software selection, backup procedures, office standards, security, latest CADD technology and office issues will be covered. Prerequisite: CADD 105.

Counseling and Guidance Personnel Services

CAPS 123 Career Development 1-3 (1-3,0,0,0)

A beginning course in life and career planning. Offered to assist participant to make informed occupational choices. Explore abilities, interests, values, aptitudes and occupational needs to assist in life planning.

CAPS 125B Job Search Techniques 1-3 (1-3,0,0,0)

This course will present techniques for use in the job hunting process. Résumé writing, research strategies, skills identification plus practice interview techniques will be utilized. May be repeated 3 times.

CAPS 126B Parenting Skills 1-3 (1-3,0,0,0)

This course meets the need of CSN students who are single parents, blended families and many times for local and federal requirements in divorce mediation. May be repeated up to a maximum of 3 credits.

CAPS 127 College Success for Hispanic Leaders 2 (2,0,0,0)

The goal of this course is to close the gap between the college completion rates of Hispanics compared to non-Hispanics. Problems unique to Hispanic student achievement will be covered including study skills techniques, short and long term college planning, self-discovery and development of cross-cultural competency in leadership style.

CAPS 128 Foundations of Success for International Students 1 (1,0,0,0)

Foundations of Success for International Students is designed to assist students with F-1 visas to overcome the difficulties often experienced with achieving academic success in an unfamiliar environment. Particular attention will be paid to achieving academic success in an unfamiliar environment, how to understand the complex relationship between academics and regulatory issues, and techniques for successfully managing cultural adjustments issues.

CAPS 129B Assertiveness Techniques 1-3 (1-3,0,0,0)

This class will explain the difference between passive, aggressive and assertive actions and help the student to gain self-esteem and confidence when communicating with others. May be repeated up to a maximum of 3 credits.

CAPS 130 Stress Management Techniques 1-3 (1-3,0,0,0)

Surveys personal lifestyles to identify areas of handling stress and tension that occurs in daily life. Techniques will be taught that will help to cope with anxiety producing situations. (May be repeated up to a maximum of 3 credits.)

Civil Engineering

CEE 241 Statics 3 (3,0,0,0)

Engineering analysis of concentrated and distributed force systems at equilibrium; analysis of structures, beams and cables, friction, virtual work, fluid statics, shear and moment diagrams. Prerequisites: PHYS 180, MATH 182.

Computer Forensics

CF 117B Computer Forensics 3 (3,0,0,0)

This course introduces the student to the preservation, identification, extraction, documentation and interpretation of crime related computer data. This course will include both lecture and demonstration of investigative techniques. Student should have basic computer knowledge.

CF 118B Internet Forensics 3 (3,0,0,0)

This course introduces the student to network intrusion analysis. It will cover DNS, ICMP, and fragmentation intrusion techniques and the use of TCP dump and Snort in intrusion detection and prevention. Students should have basic networking knowledge.

CF 119B Introduction to Electronic Crime for Law Enforcement 3 (3,0,0,0)

This course is an introduction to the investigation of high-tech crime. It will present the tools and methods used by criminals in identity theft, financial crimes, drug trafficking, crimes against children, hacking, terrorism and other electronic crimes. It will also include high-tech intelligence gathering methods and legal considerations, including ECPA, pen/trap orders, CALEA, and Title III wire taps.

CF 124B Digital Crime Investigation 3 (3,0,0,0)

Digital evidence plays a role in a wide range of crimes. The purpose of this course is to educate students about digital evidence and computer crime. It explains how computers are used in crimes, how they can be used as a source of evidence, relevant legal issues, deductive criminal profiling, criminal motivations, and investigative techniques.

CF 217B Advanced Computer Forensics 3 (3,0,0,0)

This course builds upon the skills learned in Computer Forensics. It includes lecture on advanced computer forensics topics and demonstration and practice in using computer forensics tools to analyze and reconstruct evidentiary data. Prerequisite: CF 117B.

Chemistry

CHEM 103 Preparatory Chemistry 3 (3,0,0,0)

Serves as a preparation for CHEM 121. Introduces general principles and terminology in chemistry to students with poor chemistry backgrounds. Exercises aimed at developing problem solving skills. Students should have taken or have concurrent enrollment in MATH 126 or higher to prepare for General Chemistry I. Prerequisite: MATH 096 or 124 or higher.

CHEM 105 Chemistry, Man and Society 3 (3,0,0,0)

A survey of basic ideas in chemistry for non-science majors. Explores chemistry at work in everyday life. Investigates structure and change in the real world.

CHEM 106 Beginning Chemistry Laboratory 1 (0,3,0,0)

Laboratory exercises designed to illustrate material discussed in CHEM 105. May be used in partial fulfillment of the General Education Core requirement. Prerequisite: CHEM 105 (or concurrent enrollment in CHEM 105).

CHEM 107 Food Chemistry 4 (3,3,0,0)

An introduction to composition of food including water, nutrients (carbohydrates, proteins, fats), food additives, flavoring and the changes they undergo during processing and storage. Using concepts of the scientific method, students will also examine the chemistry of minerals, vitamins and food coloring and explore the interaction of these items in the human body. This course is designed for non-science majors with little or no background in chemistry.

CHEM 110 Chemistry for Health Sciences I 4 (3,3,0,0)

Survey of general chemistry designed for Allied Health majors and non-science majors. Emphasis on the foundation needed for the study of organic and biochemistry. Prerequisite: MATH 120 or 124 or above.

CHEM 111 Chemistry for Health Sciences II 4 (3,3,0,0)

Survey of organic and biochemistry designed for Allied Health majors, and non-science majors. Application of chemical principles leading to an understanding of how living organisms function. Prerequisite: CHEM 110.

CHEM 121 General Chemistry I 4 (3,3,0,0)

An investigation of the fundamental structure of matter and chemical terminology. Introduces topics such as solution chemistry, thermochemistry and gas laws. Designed for science and pre-professional majors. Students enrolled in CHEM 121 should have taken or have concurrent enrollment in MATH 127 or MATH 128. Prerequisite: CHEM 103 or 110 or a passing score on the Chemistry Placement Exam.

CHEM 122 General Chemistry II 4 (3,3,0,0)

An application of chemical principles to inorganic systems. Emphasis on thermodynamics, equilibrium and kinetics. Prerequisites: CHEM 121 and MATH 127 or 128.

CHEM 220 Introductory Organic Chemistry 4 (3,3,0,0)

Introduction to the properties of organic functional groups and to elementary laboratory techniques. Prerequisite: CHEM 111 or 122.

CHEM 241 Organic Chemistry I 4 (3,3,0,0)

Intensive introduction to the chemistry of carbon and its functional groups, including the structure and behavior of its molecules. Laboratory emphasis is on natural processes. Prerequisite: CHEM 122.

CHEM 242 Organic Chemistry II 4 (3,3,0,0)

Continuation of CHEM 241, covering simple and poly-functional compounds, with emphasis on syntheses of organic molecules. Laboratory emphasis on natural processes and qualitative analysis. Prerequisite: CHEM 241.

CHEM 292 Selected Topics in Chemistry 1-4 (0,3-12,0,0)

Covers selected topics of interest to students in chemistry. Prerequisites: CHEM 122 and instructor approval.

Chinese**CHI 101B Conversational Chinese I 3 (3,0,0,0)**

A course emphasizing spoken communication. Speaking skills, oral listening skills, reading and writing skills explored. A vocabulary of Chinese-English words developed.

CHI 102B Conversational Chinese II 3 (3,0,0,0)

A continuation of CHI 101B, Conversational Chinese I. Prerequisite: CHI 101B.

CHI 111 First Year Chinese I 4 (4,0,0,0)

The development of language skills in listening speaking and writing. Oral emphasis.

CHI 112 First Year Chinese II 4 (4,0,0,0)

A second semester course designed to continue and improve skills learned in CHI 111. Prerequisite: CHI 111.

CHI 211 Second Year Chinese I 3 (3,0,0,0)

A continuation of CHI 112 and intended for non-native Chinese speakers who wish to study Chinese including listening, speaking, reading, and writing. Prerequisite: CHI 112.

CHI 212 Second Year Chinese II 3 (3,0,0,0)

A continuation of CHI 211 and includes structural review and development of the intermediate level of conversation, reading, and writing. Prerequisite: CHI 211.

Computing and Information Technology**CIT 095 Personal Computer Basics 3 (3,0,0,0)**

This course provides a hands-on, activity based learning experience that covers computer terminology, working with files, and protecting against computer viruses. It explores the Internet, teaches how to email and share pictures via email, and how to do searches. Students will create a document with word processing software and a basic budget with spreadsheet software. An overview of other computer applications such as data bases and presentations will be included. Graded Pass/Fail.

CIT 096 Personal Computer Repair 3 (2,2,0,0)

A home user course in basic troubleshooting, repair and maintenance of PC's. Students will learn how a PC works, how to diagnose and solve hardware related problems, how to install peripheral devices and how to upgrade existing PC hardware.

CIT 100B Computer Sampler 1 (1,0,0,0)

A hands-on learning experience for the new computer user/owner. This course will teach how a computer works, how to work in a Windows operating system, how to add new programs and components to your system and how to “surf the Internet.” Graded Pass/Fail.

CIT 102B Introduction to Windows 1 (1,0,0,0)

Thorough introduction to the Windows computing environment. Hands-on tutorials and projects on Personal Computers help students understand how to use this popular graphic-oriented user interface. Graded Pass/Fail.

CIT 103B Internet 1 (1,0,0,0)

Covers the principles of the Internet, including such topics as searching the Internet, Internet access, Usenet News groups, E-mail, and World Wide Web browser software. Graded Pass/Fail.

CIT 106B Spreadsheets 1 (1,0,0,0)

The basics of manipulating and presenting numerical data using a spreadsheet. Hands-on experience with a popular spreadsheet program. Prerequisites: Knowledge of personal computers and Windows; IS 101 or CIT 102B. Graded Pass/Fail.

CIT 107B Database 1 (1,0,0,0)

Fundamentals of creating tables and manipulating data, querying, customizing reports and data entry screens and working with multiple tables. Hands-on experience with a popular database management program. Prerequisites: Knowledge of personal computers and Windows; IS 101 or CIT 102B. Graded Pass/Fail.

CIT 108B PowerPoint 1 (1,0,0,0)

With Microsoft PowerPoint, you can easily organize, powerfully illustrate, and professionally deliver your ideas using computer presentations or slide shows. Whether conducting an informal meeting, presenting to an audience, or delivering your message over the Internet, PowerPoint has the tools you need to communicate with impact. This class starts with the basics and continues with a study of its numerous features. Graded Pass/Fail. Prerequisite: CIT 102B.

CIT 109B WordPerfect 1 (1,0,0,0)

Hands-on learning of WordPerfect features to create, modify and print documents, change layout and preference parameters, merge documents, incorporate graphics, create outlines and tables, and to use other features. Graded Pass/Fail.

CIT 110 A+ Hardware 3 (3,1,0,0)

This course will prepare students to maintain PC's, identify and correct errors in hardware configuration, upgrade and install new hardware as well as preparation for the A+ Core test.

CIT 111 A+ Software 3 (3,0,0,0)

Lectures and tests prepare students to take and pass the A+ Operating Systems module test. Students must also take and pass the A+ Core test to be A+ certified.

CIT 112B Network+ 3 (3,0,0,0)

This course covers basic networking terminology, network components, transmission media and protocols. Focuses on the OSI model of network computing. Course serves as preparation for the CompTIA Network+ exam.

CIT 113B IT Project+ 3 (3,0,0,0)

The purpose of this class is to help students gain the knowledge required to effectively plan, implement and complete IT projects across the organization. Topics will include business practices, interpersonal skills and project management processes. Prerequisite: IS 101 or associated certification.

CIT 118B Network Security Management 3 (3,0,0,0)

Students will learn about network and information security management topics, including information Security Common Body of Knowledge (ISCBK), threat techniques, and protective techniques through a technical approach. Risk analysis, contingency planning, categories of security devices, password techniques, encryption, network protocol, and intercept devices are emphasized as part of the appropriate ISCBK domain.

CIT 119B Business Data Networks 3 (3,0,0,0)

This is an introductory course that looks at various types of data networks used in many organizations. The students will learn about LANs, WANs, OSI and TCP/IP models, IP addressing, dial-up devices, security, network applications, and network management.

CIT 130 Beginning Java 3 (3,0,0,0)

An introduction to the Java programming language. Use of Java programming language for problem formulation and solution. Java language's control structures, applets, graphics, inheritances, Swing components, File I/O. Object Oriented concepts and related material. New topics may replace some old ones to keep this course current. Prerequisites: IS 115 and/or ability to program in a high level language.

CIT 131 Beginning C Programming 3 (3,0,0,0)

An introduction to the C programming language. Topics will include C data types, input, output, operators, decision and looping statements, functions, and the C library. Prerequisites: IS 115 and/or ability to program in a high level programming language.

CIT 132 Beginning Visual Basic 3 (3,0,0,0)

An introduction to the Visual Basic.NET programming language. Topics will include problem solving, Visual Basic.NET Objects, decision and repetition statements, input, output, events, functions, procedures and graphical display of data. New topics may replace some old ones to keep this course technically current. Prerequisites: IS 115 and/or ability to program in a high level language.

CIT 133 Beginning C++ 3 (3,0,0,0)

An introduction to the C++ programming language. Topics will include C++ data types, input, output, operators, decision and looping statements, functions and classes. Prerequisites: IS 115 and/or ability to program in a high level programming language.

CIT 134B Beginning C# Programming 3 (3,0,0,0)

C# is a general-purpose, object-oriented programming language best known for its ability to create single-source solutions capable of running on a variety of devices (via the .NET platform). This course is the first semester of C# programming, and will include exposure to the .NET platform, but the primary emphasis will be on general-purpose object-oriented programming. Prerequisite: IS 115.

CIT 151 Beginning Web Development 3 (3,0,0,0)

An introduction to the creation and styling of websites using HTML and CSS. Websites will include text, graphics, and multimedia. Prerequisite: IS 100B or IS 101.

CIT 152 Web Script Language Programming 3 (3,0,0,0)

This course introduces students to client side scripting to control the appearance and functionality of web pages. JavaScript will be used to improve navigation of web sites, to validate data submitted in forms, to add functionality to web pages and to improve user experience. Prerequisites: IS 115 and CIT 151, or instructor permission.

CIT 154B Dynamic Web Applications 3 (3,0,0,0)

Hands-on exploration of Web applications such as wikis, blogs, syndication methods, podcasting, social networking, virtual worlds, online video and image sharing, and web based office applications. In-depth examination of these increasingly pervasive Web 2.0 applications and of their implications and potential for many career fields. Students projects showcased in electronic portfolios (optional). Prerequisite: IS 100B or IS 101.

CIT 160 Introduction to Computer Security 3 (3,0,0,0)

Principles and practices of protecting valuable data from loss, corruption and compromise. Emphasis on the needs of home computer users and small businesses. Topics include data backup, risk assessment, network and internet security and e-commerce. Prerequisite: IS 100B or IS 101.

CIT 173 Introduction to Linux 3 (3,0,0,0)

An introduction to the Linux Operating System. Topics include Linux origins, file system, user commands and utilities, graphical user interfaces, editors, manual pages and shells. Students are expected to have basic computer literacy prior to enrolling in this course.

CIT 174 Linux System Administration 3 (3,0,0,0)

This course covers a variety of topics: installing and configuring a Linux Server, managing users and groups, securing the system and much more. Students should complete CIT 173 or have a knowledge of Linux fundamentals before attending this course.

CIT 175B Advanced Linux System Administration 3 (3,0,0,0)

Students will learn how to perform advanced administration tasks on a Linux server including: installation and manual configuration, performance tuning and backup and recovery services. Prerequisite: CIT 174.

CIT 176 Linux Shell Programming 3 (3,0,0,0)

An introduction to the Linux shell, shell scripts, shell programming, and utilities. Topics will include the Linux Bash, Korn, and C shells; regular expressions; and grep, sed, and awk utilities. Students will learn to automate system administration tasks with shell scripts, programs, and Linux utilities.

CIT 180 Database Concepts and SQL 3 (3,0,0,0)

Basic principles of data modeling and relational database design. Hands-on learning of Structured Query Language (SQL). Prerequisite: IS 115 or equivalent programming experience or instructor permission.

CIT 181 Introduction to Oracle 3 (3,0,0,0)

This course provides students with a basic understanding of the Oracle software system. This will include Oracle's implementation of SQL, PL/SQL (Oracle's programming language), and Oracle development tools (such as SQL Developer, Forms and Reports). Prerequisite: CIT 180 or instructor permission.

CIT 182 Oracle Developer I 3 (3,0,0,0)

This course presents a variety of standard and custom reports using the Oracle Developer product. Students learn how to retrieve, display and format data in a variety of styles such as tabular, matrix, mailing label and letter reports. They also learn how to customize more complex reports, embed graphical charts in reports, create simple forms to interact with the user and to link multiple forms. Prerequisite: CIT 181 or a working knowledge of SQL.

CIT 183 Database Administration 3 (3,0,0,0)

Learn to install a RDBMS, manage database objects, including performance monitoring, storage management, database security, user management, database connectivity, and backup/recovery techniques. Prerequisite: CIT 180 or 181 or instructor permission.

CIT 184 Oracle PL/SQL Programming I 3 (3,0,0,0)

This course presents the basics of writing Oracle PL/SQL program units. Basic PL/SQL language elements, decisions, loops, procedures, functions and packages will be covered. Prerequisite: IS 115 or the ability to program in a high level programming language or instructor permission.

CIT 201B Word Certification Preparation 3 (3,0,0,0)

Comprehensive coverage of basic and advanced features of Microsoft Word including, but not limited to, the set of skills on the Microsoft's certification exams for Word. Prerequisite: IS 100B or IS 101.

CIT 202B Excel Certification Preparation 3 (3,0,0,0)

Comprehensive coverage of basic and advanced features of Microsoft spreadsheet software including, but not limited to, the set of skills on Microsoft's certification exams for Excel. Prerequisite: IS 100B or IS 101.

CIT 203B Access Certification Preparation 3 (3,0,0,0)

Comprehensive coverage of basic and advanced features of database management software including, but not limited to, the set of skills on Microsoft's certification exams for Access. Prerequisite: IS 100B or IS 101.

CIT 206B MS Outlook Certification Preparation 2 (2,0,0,0)

Recognizes and applies basic and advanced features of Outlook including, but not limited to, the skills on the Microsoft Outlook Certification exams. Each component of the Outlook package will be identified and explored as an integrated system. Students should have basic computer skills.

CIT 211 MCITP/MCTS Windows Workstation OS 3 (3,0,0,0)

The Core A Operating systems course prepares student to prove their expertise with desktop, server and networking components. Core A consists of the required areas of study mandated by Microsoft for their MCITP/MCTS certification in a client operating system. Students should have basic computer skills.

CIT 212 MCITP/MCTS Windows Server OS 3 (3,0,0,0)

The Core B Advanced Operating systems course prepares students to prove their expertise with server operating systems and networking components. Core B consists of the required areas of study mandated by Microsoft to complete their MCITP/MCTS requirements. Students should have basic computer skills.

CIT 213 MCITP/MCTS Network Infrastructure 3 (3,0,0,0)

The Core C operating systems course prepares student to prove their expertise with desktop, server and networking components. Core C consists of the required areas of study mandated by Microsoft in order to complete their MCITP or MCTS certification requirements. Prerequisite: CIT 112B.

CIT 214 MCITP Application Infrastructure 3 (3,0,0,0)

The Core D course prepares students to prove their expertise with desktop, server and networks. This course consists of the required areas of study mandated by Microsoft in order to complete their MCITP Enterprise Administrator core requirements. Prerequisite: CIT 112B.

CIT 215 MCITP Active Directory 3 (3,0,0,0)

This course prepares students to prove their expertise with desktop, server and networks. This course consists of the required areas of study mandated by Microsoft in order to complete their MCITP core requirements. Prerequisite: CIT 112B.

CIT 216 Server+ 3 (3,0,0,0)

An intense class to prepare mid- to upper-level technicians, responsible for server hardware functionality, to take the CompTIA Server+ certification exam. The Server+ certification credential validates advanced-level technical competency of server issues and technology, including installation, configuration, upgrading, maintenance, troubleshooting, and disaster recovery. Students will learn how to install, configure, diagnose, and troubleshoot server hardware and network operating systems. Prerequisite: CIT 112B Network+ or associated certification.

CIT 217 Security+ 3 (3,0,0,0)

The purpose of this class is to prepare professionals with at least two years of networking experience and who possess a thorough knowledge of TCP/IP to take and pass the CompTIA Security+ certification exam. Topics will include general security concepts, communications security, infrastructure security basics of cryptography, and operational/organizational security. Prerequisite: CIT 112B or associated certifications.

CIT 218 Microsoft Special Topics 3 (3,0,0,0)

Special topics on computers and networking equipment, OS, and administration will be covered. This course is designed specifically for students pursuing MCITP or MCTS certifications or for those desiring additional learning after achieving a Microsoft Advanced Certification. This course can be repeated to a maximum of 9 credits with different topics. Prerequisite: CIT 112B or instructor permission.

CIT 230 Advanced Java 3 (3,0,0,0)

A continuation of CIT 130. This course will focus on advanced topics of Java. Provides special examples illustrating applications for which Java was designed. Prerequisite: CIT 130 or instructor permission.

CIT 231 Advanced C Programming 3 (3,0,0,0)

An advanced course in the C programming language. Topics will include structures, arrays, pointers, sequential and direct access files in the C language. Prerequisite: CIT 131 or instructor permission.

CIT 232 Advanced Visual Basic 3 (3,0,0,0)

A continuation of CIT 132. Advanced program structures in Visual Basic.NET. Topics will include sequential files, random access files, control, Objects of Visual Basic.NET, and other applications for which Visual Basic.NET is designed. Prerequisite: CIT 132 or instructor permission.

CIT 233 Advanced C++ 3 (3,0,0,0)

Advanced data structures and program structures in C++ language. Larger programs and special examples illustrating applications C++ was designed for. Prerequisite: CIT 133 or instructor permission.

CIT 238B Introduction to Smartphone Application Development 3 (3,0,0,0)

This course introduces the student to smartphone application development. Students will develop applications that will function on smartphones using a software development kit and the object oriented language appropriate to the target smartphone. Students will use simulation programs to test their applications. Prerequisites: CIT 130 or other object oriented programming language, and a basic knowledge of the Mac and or Window operating systems.

CIT 239 Advanced Programming Techniques 3 (3,0,0,0)

Data structures and algorithms for manipulating linked lists. String and file processing, recursion, software engineering, structured programming and testing especially using larger programs. Languages (C++, Java, etc.) may vary with the course. Prerequisite: CIT 230 or equivalent or instructor permission.

CIT 251 Advanced Web Development 3 (3,0,0,0)

This course is a continuation of CIT 151 and extends student knowledge and skills with HTML and CSS. Extensible Markup Language (XML) will be used to share data among different systems and applications. Prerequisite: CIT 151 or instructor permission.

CIT 252 Web Database Development 3 (3,0,0,0)

Design and implementation of interactive, data-driven websites that integrate HTML/CSS, a scripting language (Active Server Pages or PHP), and a database. Prerequisites: IS 115 (or other programming experience) and CIT 151.

CIT 257 Web Languages 3 (3,0,0,0)

This course explores a variety of emerging technologies that are used in sophisticated Web sites. Students will explore advanced Internet topics that may include dynamic Web site content, database integration, e-commerce, security, server-side configurations, scripting, common gateway interfaces and Web application development. Prerequisites: CIT 152 and CIT 252, or instructor permission.

CIT 260 Systems Analysis and Design 3 (3,0,0,0)

An examination of systems and their elements and processes. Includes techniques used by systems analysts to determine user requirements and the translation of user requirements into design specifications. Students should have programming experience.

CIT 261 VBA Programming for Microsoft Office 3 (3,0,0,0)

Introduction to customization, automation and integration of Microsoft Office applications using Visual Basic for Applications. Teaches programming logic, principles and techniques. Prerequisites: CIT 201B, and 202B or equivalent strong working experience with Microsoft Office. No previous programming experience required.

CIT 263B Project Management 3 (3,0,0,0)

This course introduces students to the concepts of project management and project management software. Students will practice proper project management principles defined by the Project Management Institute in the PMBOK. Students should have basic computer skills.

CIT 282 Oracle Developer II 3 (3,0,0,0)

This course presents a broader coverage of Oracle Forms and Reports by building on the concepts learned in the first Oracle Developer course. Prerequisite: CIT 182.

CIT 283 Oracle Database Administration II 3 (3,0,0,0)

This course will present the basic concepts of database backup and recovery, performance tuning, and introduces the Net8 for network administration. Prerequisite: CIT 183.

CIT 284 Oracle PL/SQL Programming II 3 (3,0,0,0)

This course presents a broader coverage of using PL/SQL to develop applications and covers the more advanced features of the PL/SQL language. Prerequisite: CIT 184.

CIT 285B Advanced Database Topics 3 (3,0,0,0)

This course provides an opportunity to explore areas of current interest in database management by exploring special topics. These topics may include the use of databases in corporate environment, data mining, use of data warehouses, etc. This course may be repeated once with different topics. Prerequisite: CIT 180.

CIT 290 Internship in CIT I 1-3 (0,0,0,5-15)

Supervised work experience within a selected computer and information technology firm or an information systems department in major corporation. Designed by company official and faculty advisor to apply knowledge to on-the-job situation. Available to students entering their last two semesters of instruction for degree. Contact department for application, screening, and required skills evaluation. This course may be repeated once not to exceed a total of 3 credits.

CIT 291 Internship in CIT II 1-3 (0,0,0,5-15)

Supervised work experience within a selected computer and information technology firm or an information systems department in major corporation. Designed by company official and faculty advisor to apply knowledge to on-the-job situation. Available to students entering their last two semesters of instruction for degree. Contact department for application, screening, and required skills evaluation. This course may be repeated once not to exceed a total of 3 credits. Prerequisite: CIT 290.

CIT 295B Capstone Course 1 (1,0,0,0)

This is the capstone course for several CIT degrees. Students will complete a project designed for their specific area of concentration. Skills learned during the degree program will be required to satisfactorily complete the project. Students will also complete a comprehensive exam that includes questions for the discipline core and the appropriate area of concentration. This class must be taken during a student's final semester. Graded Pass/Fail. Prerequisite: Department consent required.

Clinical Laboratory Science

CLS 125B Microbiology for Surgical Technicians 2 (2,0,0,0)

An introduction to clinical microbiology with an emphasis on clinically significant microbes, the infectious disease process, control of microbial growth, and aseptic technique. Prerequisite: Admission to program.

CLS 126B Applied Microbiology for Surgical Technicians 1 (0,3,0,0)

This is a laboratory course utilizing microscopic, cultural, and serological techniques to study the characteristics of selected clinically significant microbes. Specimen collection and processing, as well as disinfection and sterilization methods will also be addressed. Corequisite: CLS 125B.

CLS 130B Laboratory Procedures for Medical Office Assistants 2 (2,0,0,0)

This course introduces theory and fundamentals of laboratory procedures for personnel working in a physician's office, including clinical significance of laboratory results.

CLS 131B Applied Laboratory Procedures for Medical Office Assistants 1 (0,3,0,0)

This course provides practical application of laboratory procedures for personnel working in a physician's office. Corequisite: CLS 130B.

CLS 145 Laboratory Methods 2 (2,0,0,0)

This is an introduction to the role of the medical laboratory technician in the health care system. Topics include collection and handling of specimens, laboratory computers, quality control and clinical laboratory preview of professional working situation.

CLS 146B Applied Laboratory Methods 2 (0,6,0,0)

An introduction to the ordering, processing, and analysis of patient samples; utilization of laboratory equipment, instrumentation, and information system. Corequisite: CLS 145.

CLS 147B Medical Laboratory Assistant Clinical Practicum 2 (0,0,6,0)

A clinical rotation in specimen accessioning, processing, basic laboratory techniques, and point of care testing. Prerequisite: Completion of Medical Laboratory Assistant program.

CLS 151 Phlebotomy 2 (2,0,0,0)

Study of blood collection methods, with emphasis on patient preparation and identification, sample collection, and selected diagnostic tests performed in the clinical laboratory.

CLS 152 Applied Phlebotomy 2 (0,6,0,0)

Supervised practice of blood collection methods routinely used to collect patient samples for diagnostic testing. Corequisite: CLS 151.

CLS 153 Phlebotomy Clinical Practicum 2 (0,0,8,0)

A clinical rotation in blood collection and specimen processing techniques. Prerequisites: CLS 151, CLS 152.

CLS 161 Urinalysis and Body Fluids 1 (1,0,0,0)

Introduction to fundamentals and ethics of medical laboratory technology, quality control, laboratory safety and supply records. Theory and practical application of urinalysis procedures and other body fluids such as CSF and synovial fluids. Prerequisite: Acceptance into program.

CLS 162 Applied Urinalysis and Body Fluids 1 (0,3,0,0)

Course covers analysis of urine with emphasis on chemical, macroscopic and microscopic methodologies. Microscopic analysis of body fluids such as CSF and synovial fluids. Corequisite: CLS 161.

CLS 241 Clinical Chemistry I 3 (3,0,0,0)

This course covers basic principles of methodology in clinical chemistry: physiologic biochemistry, specimen collection, differentiation of normal and abnormal test results, special precautions and troubleshooting of test procedures, validation of reliability and correlation with other laboratory tests. Prerequisites: Acceptance into program, CHEM 111.

CLS 242 Applied Clinical Chemistry I 2 (0,6,0,0)

This course covers specimen collection and processing of carbohydrates, proteins, lipids, heme derivatives, nitrogen, enzymes, blood pH and gases, electrolytes, vitamins, hormones and drugs; liver function tests, analytical instrumentation and quality control. Corequisite: CLS 241.

CLS 251 Immunology/Immunochemistry I 2 (2,0,0,0)

An overview of the immune response with emphasis on serological principles used in the laboratory diagnosis of disease processes. Identification of blood group antigens and antibodies and their clinical significance in transfusion therapy. Prerequisites: Acceptance into program, CHEM 111.

CLS 252 Applied Immunology/Immunochemistry I 2 (0,6,0,0)

The following serological and immunochemical laboratory procedures are covered: grouping, typing, compatibility testing, pregnancy testing, titers, cold agglutinins, quality control. Corequisite: CLS 251.

CLS 261 Clinical Microbiology for Dental Hygienists 2 (2,0,0,0)

An introduction to clinical microbiology with emphasis on microbial diseases of dental origin and diseases with secondary oral manifestations. Corequisite: CLS 262.

CLS 262 Applied Clinical Microbiology for Dental Hygienists 1 (0,3,0,0)

A laboratory course emphasizing isolation and identification of pathogenic bacteria, through the use of conventional and commercial methods, microscopic techniques, and serological tests. Specimen collection and processing of microbiological samples will also be addressed. Corequisite: CLS 261.

CLS 265 Laboratory Operations I 1 (1,0,0,0)

Introduction to clinical laboratory sciences including laboratory safety, professional ethics, fundamental laboratory calculations, quality assessment, laboratory information systems, and correlation of laboratory data in patient care. Prerequisite: Acceptance into MLT/MLS program.

CLS 271 Clinical Microbiology I 3 (3,0,0,0)

The study of microorganisms of medical importance to man. Includes characteristics, medical significance and identification of bacteria, mycobacteria, viruses, fungi and parasites. Prerequisite: Acceptance into program.

CLS 272 Applied Clinical Microbiology I 2 (0,6,0,0)

Specimen collection and processing. Isolation and identification of pathogenic bacteria, through the use of conventional and commercial methods, microscopic techniques and serological tests. Corequisite: CLS 271.

CLS 291 Hematology I 2 (2,0,0,0)

Development, identification and function of cellular and humoral elements in whole blood. Principles of laboratory assays used in determining the existence and diagnosis of hematologic disorders. Prerequisites: Acceptance into program, CHEM 111.

CLS 292 Applied Hematology I 2 (0,6,0,0)

Slide preparation and staining; manual and automated assays of whole blood components; cell identification; coagulation tests and special hematology procedures. Corequisite: CLS 291.

CLS 294 Clinical Practicum I 2 (0,0,6,0)

A clinical rotation in clinical microbiology. Prerequisite: CLS 272.

CLS 295 Clinical Practicum II 2 (0,0,8,0)

A clinical rotation in chemistry, urinalysis, and body fluids. Prerequisites: CLS 162, 242.

CLS 296 Clinical Practicum III 4 (0,0,12,0)

A clinical rotation in hematology, coagulation, immunology, and immunochemistry. Prerequisites: CLS 252, 292.

CLS 365 Laboratory Operations II 1 (1,0,0,0)

Theory and practice of fiscal/personnel management of laboratory practitioners. Assay implementation, government regulatory and accreditation policies. Applications of basic educational methods for laboratory personnel. Prerequisite: CLS 265.

CLS 446 Clinical Chemistry II 2 (2,0,0,0)

Advanced study of chemical analysis of blood, urine and other body fluids in normal and abnormal physiological conditions. Topics include endocrinology, toxicology and special procedures. Prerequisite: CLS 242.

CLS 447 Applied Clinical Chemistry II 1 (0,3,0,0)

Advanced laboratory applications in chemical analysis of blood, urine and other body fluids in normal and abnormal physiological conditions. Topics include endocrinology, toxicology and special procedures. Corequisite: CLS 446.

CLS 448 Hematology II 2 (2,0,0,0)

Diagnostic hematology and body fluid analysis, with advanced study of anemias, leukemias, myeloproliferative and myelodysplastic disorders, and advanced topics in hemostasis. Prerequisite: CLS 292.

CLS 449 Applied Hematology II 1 (0,3,0,0)

Diagnostic hematology and body fluid analysis with emphasis on laboratory testing and molecular markers used to differentiate/diagnose various hematologic malignancies and hemostasis disorders. Corequisite: CLS 448.

CLS 456 Immunology/Immunochemistry II 2 (2,0,0,0)

Study of advanced principles of immunology and the identification of clinically significant blood group antigens and antibodies in transfusion medicine. Prerequisite: CLS 252.

CLS 457 Applied Immunology/Immunochemistry II 1 (0,3,0,0)

Applied laboratory procedures in immunologic and molecular techniques used to analyze antigen-antibody reactions in the diagnosis of health or disease. Includes advanced immunochemical procedures. Corequisite: CLS 456.

CLS 476 Clinical Microbiology II 2 (2,0,0,0)

Advanced study of pathogenic microorganisms. Emphasis on fungal, parasitic, viral, mycobacterial diseases as well as normal and pathogenic bacteria from specific body sites. Prerequisite: CLS 272.

CLS 477 Applied Clinical Microbiology II 1 (0,3,0,0)

Advanced practical applications used in recovery, isolation and identification of pathogenic microorganisms. Includes fungi, parasites, mycobacteria, viruses and miscellaneous bacteria. Corequisite: CLS 476.

CLS 478 Research Methods 2 (2,0,0,0)

Study of basic research concepts and principles aimed at equipping students with skills and tools for systematic investigation in health sciences and writing of research proposals. Prerequisites: ECON 261, CLS 477.

CLS 491 Clinical Practicum - Chemistry 4 (0,0,12,0)

Clinical rotation in Clinical Chemistry. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist. Prerequisite: CLS 447.

CLS 493 Clinical Practicum - Immunology/Immunochemistry 4 (0,0,12,0)

Clinical rotation in Immunology/Immunochemistry. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist. Prerequisite: CLS 457.

CLS 495 Clinical Practicum - Microbiology 4 (0,0,12,0)

Clinical rotation in Microbiology. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist. Prerequisite: CLS 477.

CLS 497 Clinical Practicum - Hematology 4 (0,0,12,0)

Clinical rotation in Hematology. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist. Prerequisite: CLS 449.

Communication

COM 101 Oral Communication 3 (3,0,0,0)

Theory and practice in extemporaneous speaking and other prepared speaking experiences.

COM 101H Oral Communication - Honors 3 (3,0,0,0)

Theory and practice in spoken communication and other speaking experiences. Honors addresses a greater body of research and focuses on a required theme. Honors level courses can be used to fulfill equivalent general education requirements. Prerequisite: Admission to the Honors program.

COM 102 Introduction to Interpersonal Communication 3 (3,0,0,0)

Theory and practice in effective interpersonal communication with written and real world applications. Topics may include perception, using verbal and nonverbal symbols, listening, self-disclosure, interpersonal conflict, developing and maintaining relationships. Prerequisite: ENG 100 or 101.

COM 115 Applied Communication 3 (3,0,0,0)

Emphasis placed on improving oral and written communication skills in the workplace, including organizational networks, interviewing, presentations, listening and groups. Culture and personality are analyzed.

COM 116 Critical Reasoning in Daily Life 3 (3,0,0,0)

Theory and practice of critical reasoning applied to a variety of everyday communication forms, including arguments, narratives, advertisements, visual media, protests, performances, and public space.

COM 133 Culture and Communication 3 (3,0,0,0)

Introduction to theory, analysis and practice in understanding culture and its impact on communication. Emphasis on the use of cultural awareness and multicultural sensitivity to improve oral and written communication skills. (Same as ANTH 133.)

COM 180 Cinema as Art and Communication 3 (3,0,0,0)

A survey of cinema in its diverse forms. Historical and stylistic influences on the aesthetic values and implications of cinema. The course focuses on writing about film from various perspectives. Research of peer reviewed journal articles is a focus. Illustrated by screen examples.

COM 196 Internship 1-3 (0,0,0,1-3)

A supervised workshop experience in a local television studio, radio station, newspaper, advertising agency, public relations firm or any other organization relating to communication. Can be repeated for a total of 6 credits. Prerequisites: Approval of the station, newspaper, agency or firm where internship will be completed and approval from the Department of Communication Internship Coordinator.

COM 203 Advanced Public Speaking 3 (3,0,0,0)

Theory and practice in extemporaneous speaking and other prepared speaking experiences. Emphasis on advanced delivery and research skills for public speaking.

COM 211 Survey of Rhetorical Studies 3 (3,0,0,0)

Survey of historical development of various rhetoric canons, concepts, and perspectives beginning with ancient Greek and Roman rhetoric and concluding with contemporary discourse and rhetorical theory.

COM 215 Introduction to Group Communication 3 (3,0,0,0)

Theory and practice in small group communication. Emphasis placed on discussion, problem solving, group roles, conflict management, and leadership.

COM 216 Survey of Communication Studies 3 (3,0,0,0)

Survey and analysis of the concepts, principles, and values of human communication grounded in communication theory and practice.

COM 217 Argumentation and Debate 3 (3,0,0,0)

Theory and practice in oral argumentative discourse. Emphasis placed on developing reasoning skills, critical thinking, preparing and presenting oral arguments within discussions and debates. Prerequisite: COM 101.

COM 250B Debate Practicum 1 (0,4,0,0)

The course is designed for students who are participants in intercollegiate forensic competition. This course may be taken a maximum of three (3) times. Prerequisite: COM 217.

COM 299 Special Topics in Communication 1-4 (1-4,0,0,0)

Investigates a special topic and/or area of interest within the field of Communication Studies.

Construction Management

CONS 105B Construction OSHA Standards 1 (1,0,0,0)

This course includes 10-hours of authorized training addressing OSHA construction standards. The identification of asbestos, lead and radon in potential construction projects will also be covered in this course. Upon completion, students will be issued a course completion 10-hour card by the U.S. Department of Labor's Occupational Safety and Health Administration.

CONS 120B Printreading and Specifications 3 (3,0,0,0)

A basic course designed to provide background material in printreading. Emphasis will be placed on residential and light commercial plans.

CONS 205B Construction Site Safety OSHA Standards 3 (3,0,0,0)

This course includes 30-hours of authorized training addressing the 29 CFR 1926 OSHA Construction Industry Regulation Standards. The identification of asbestos, lead, mold, radon and other hazardous materials in potential construction projects will also be covered in this course. Upon completion, students will receive a certificate from the U.S. Department of Labor's Occupational Safety and Health Administration. (Same as ESH 222B.)

CONS 210B Construction Structural Technology 3 (2,2,0,0)

This course will help students to apply basic structural principles to problems encountered in the design and construction of residential and light commercial structures not exceeding two stories in height. Prerequisite: EGG 131 or PHYS 151. (Same as ADT 210B.)

CONS 221 Construction Estimating 3 (2,2,0,0)

Advanced estimating concepts based on utilizing excel spread sheets for both residential and/or commercial projects. Students must have basic computer skills. Corequisite: CONS 281B. Prerequisite: MATH 104B.

CONS 275B Principles of Construction Surveying 3 (3,0,0,0)

Topics include principles of land surveying, an in-depth study of the public systems, restoration of corners, boundary and control survey adjustments, construction survey staking and evidence and analysis.

CONS 281B Construction Planning, Scheduling and Control 3 (2,2,0,0)

Topics include project scheduling and evaluation using scheduling techniques. Critical path scheduling is also used. Corequisite: CONS 221. Prerequisites: SCT 105B.

CONS 282B Construction Law 3 (3,0,0,0)

Items covered in this course include construction contracts and documents, specifications, contract formation, interpretation, arbitration, professional ethics, Nevada contractor lien laws, construction bonds and contractor's liabilities, rights and duties.

CONS 285B Construction Soils and Foundations 3 (2,2,0,0)

Introduction to basic concepts of soils and foundations, including compaction, compressibility, settlement, shear strength, and site investigation. Students will study problem soils and solutions, types and systems of foundations, bearing capacity, sheeting and braced excavations. Prerequisite: CONS 210B.

CONS 286B Construction Management and Analysis 3 (3,0,0,0)

Introduction to modern management theory and techniques with applications to modern construction problems, management principles and methods of applying this knowledge to the modern construction industry. Prerequisite: Instructor permission.

CONS 288B Quality Control of Construction Waste 3 (3,0,0,0)

This course is designed to provide a general overview of the hazardous materials management field with emphasis on hazardous materials, hazardous waste, laws and regulations, and its effects on the environment and worker health and safety. Discussions on federal, state, and local regulations involving hazardous materials and the implementation of pollution prevention and waste minimization will be stressed. (Same as ESH 130.)

CONS 295B Construction Internship I 3 (0,0,0,38)

This course will provide students the opportunity to work in the construction industry, directed by a qualified professional and supervised by the instructor. 600 hours of work are required for the internship. A 10,000 word report will be required with an oral presentation before supervising faculty member(s). Prerequisite: Program Director permission.

CONS 296B Construction Internship II 3 (0,0,0,38)

This course will provide students the opportunity to work in the construction industry, directed by a qualified professional and supervised by the instructor. 600 hours of work are required for the internship. A 10,000 word report will be required with an oral presentation before supervising faculty member(s). Prerequisite: Program Director permission.

CONS 299B Construction Technology Capstone 2 (2,0,0,0)

This capstone course will assess the student's rate of progress in the Construction Technology program to include: construction estimating, law, management and materials, sustainable construction of new and existing buildings and printreading. The grading method for this course is pass/fail. Prerequisite: Program Director's permission.

Computer Office Technology**COT 101B Computer Keyboarding I 3 (3,0,0,0)**

Mastery of computer alpha-numeric keyboard by touch and introduction of 10-key pad. Not for students who have previously had typing.

COT 102 Computer Keyboarding II 3 (3,0,0,0)

Formatting of letters, memos, and other office documents. Introduction to word processing. Students should be able to type 25 wpm

COT 103B Keyboarding Review and Speed 1 (1,0,0,0)

Emphasis on speed building techniques. May be repeated for a maximum of three credits.

COT 108 Speedwriting Shorthand I 3 (3,0,0,0)

Complete theory of alphabetic shorthand - abbreviated longhand. Beginning dictation and transcription practice. Used for taking lecture notes or general office dictation.

COT 109B Speedwriting Shorthand II 3 (3,0,0,0)

Dictation and transcription for speed development. Reinforcement of theory through extensive repetitive use of common words, phrases, and shortcuts. Spelling and punctuation emphasis for mailable letters.

COT 127B Microsoft Office for Offices 3 (3,0,0,0)

Covers the beginning features of Word, Excel, Access, and PowerPoint, the main programs in Microsoft Office. Learn the beginning features of word processing, spreadsheets, database management, and presentations in these popular computer software packages. Emphasis on office documents for students who desire professional quality beginning skills in these programs.

COT 129B Records Management 3 (3,0,0,0)

Introduction to filing principles and rules, equipment and supplies, filing systems (alphabetic, numeric, etc.), records disposition, correspondence control, information retrieval and records storage.

COT 132B Outlook for Offices 1 (1,0,0,0)

This course explores the features of the Microsoft Office Outlook program. Some of the topics covered will include using Outlook e-mail, address books, distribution lists, and the calendar. Students will also learn to set up meetings and make use of Outlook Security.

COT 200 Word Processing I 3 (3,0,0,0)

Includes the input of documents, revisions, output, proof-reading, grammar and punctuation. Students use a computer with word processing software. Students should be able to type 40 wpm.

COT 201B Word Processing II 3 (3,0,0,0)

Instruction to the most common intermediate features of a popular word processing program. Includes proofreading and grammar, with document preparation. Emphasis on office documents and procedures. Prerequisites: COT 102, 200.

COT 205B Pads & Tabs - Office on the Go 3 (3,0,0,0)

Instruction for Apple iPad or similar device (provided in class). Current office applications, internet, communication, contact/calendar, and remote access will be covered. No homework.

COT 206B Speech Recognition for Offices 3 (3,0,0,0)

Learn how speech recognition can be used for personal or office production. Gain the skills to be able to use speech recognition to provide complete voice control of your computer and the digital world of today. Students will be presented with information for using speech recognition to create a variety of documents as well as for navigating the computer, software, and the Internet. Students will use computers with popular speech recognition.

COT 208B Tablet Computer, Voice and Handwriting 1 (1,0,0,0)

Learn the basics of a Tablet PC (or equivalent) and how to create and edit documents using your voice (up to 100 wpm) and handwriting rather than the keyboard. Students use a Tablet computer for documents, email, and other everyday computer tasks.

COT 209B Tablet Computer, Voice and Handwriting II 3 (3,0,0,0)

Learn more about Tablet computers and their capabilities, techniques, and shortcuts. Improve voice and handwriting recognition skills using a Tablet PC (or equivalent) to work with documents, email, and Internet tasks. Use programs such as Sticky Notes and OneNote, and learn other tablet features.

COT 213B Business Professionalism 3 (3,0,0,0)

A capstone course that provides students with opportunities to learn about professional characteristics and traits considered important to business environments. Also includes intermediate to advanced word processing skills for business writing. Emphasis on telephone techniques, courtesy skills, public relations, appearance and business etiquette. Prerequisites: BUS 106B, COT 102, 127B, 200, 201B.

Counseling and Personal Development

CPD 116 Substance Abuse: Fundamental Facts and Insights 3 (3,0,0,0)

Overview of how involvement with alcohol, tobacco and other drugs can affect health, personal and social development. Related social, philosophical, cultural, prevention and treatment issues.

CPD 117 Introduction to Counseling 3 (3,0,0,0)

Provides students with interviewing and basic counseling skills. Discusses confidentiality and ethics. Includes experiential role play.

CPD 120 Treatment Planning and Case Management 2 (2,0,0,0)

Provides working knowledge of treatment planning for addicted patients. Discusses patient histories, treatment goals, documentation and legal requirements. Prerequisite: CPD 116.

CPD 121 Gambling Addiction 3 (3,0,0,0)

Provides knowledge of gambling addiction. Covers signs and symptoms, historical, cultural and economic perspectives, and treatment. Prerequisite: PSY 101 or CPD 116.

CPD 133 Small Group Interaction - Group Counseling 3 (3,0,0,0)

Provides knowledge of group dynamics, counseling skills, and role play. Prerequisites: PSY 101, CPD 117.

CPD 134 Women and Substance Abuse Treatment Issues 3 (3,0,0,0)

Provides working knowledge of issues in counseling addicted women. Covers signs and symptoms, historical perspectives, cultural attitudes, family issues, pregnancy, drug affected children and treatment approaches.

CPD 201 Crisis Communication Skills 3 (3,0,0,0)

Provides understanding of crisis, its stages and intervention. Covers types of crises, training in communication and basic counseling skills and referral services. Includes experiential role play.

CPD 217 Advanced Counseling Techniques for Substance Abuse 3 (3,0,0,0)

Comprehensive overview of counseling philosophies, concepts, theories and practical treatment approaches appropriate for the substance abuser. Prerequisites: PSY 101, CPD 117.

CPD 218 Family Counseling Issues in Substance Abuse 3 (3,0,0,0)

Provides knowledge for identifying and assessing substance abuse appropriate for family counseling. Theoretical and practical approaches to family counseling. Prerequisites: PSY 101, CPD 117.

CPD 220 Dual Diagnosis 3 (3,0,0,0)

Provides working knowledge of the assessment and treatment of patients with a coexisting mental illness and substance abuse disorder. Prerequisite: PSY 101 or CPD 116.

CPD 230 Addiction and Trauma 3 (3,0,0,0)

Provides knowledge of the interrelationship between addiction and trauma. Covers diagnostic criteria and includes experiential role-play and practice in counseling skills.

CPD 254 Bio-Psycho/Social Factors in Addiction 3 (3,0,0,0)

Theories of alcohol and other drug addictions with emphasis on the signs and symptoms of problematic use as well as methods of assessment and intervention. Prerequisite: CPD 116.

CPD 255 Developmental Theories and Prevention/Education Strategies 3 (3,0,0,0)

The impact of addiction on development in children and families, perinatal addiction and fetal alcohol syndrome, and current prevention and education models and services. Prerequisite: CPD 254.

CPD 290 Internship in Counseling 1 (0,0,1,0)

Supervised counseling work experience with selected community agencies. Up to eight semester hour credits may be earned on the basis of 100 hours of internship for one credit. May be repeated up to eight credits. Prerequisite: Permission of the CSN Addiction Program Director.

CPD 291 Substance Abuse Counseling Practicum I 3 (0,0,0,12)

Substance abuse counseling work experience in a selected community agency. The student works 12 hours per week under agency supervision in the final year. If taken earlier, permission is required by CSN Addiction Program Director. Prerequisite: CPD 290 or approval of the CSN Addiction Program Director.

CPD 292 Substance Abuse Counseling Practicum II 3 (0,0,0,12)

Further supervised substance abuse counseling work experience in a selected community agency. The student works 12 hours per week under agency supervision in the final semester. Prerequisites: CPD 290 and CPD 291 or approval of the CSN Addiction Program Director.

Computer Engineering**CPE 100 Computer Logic Design I 3 (3,0,0,0)**

This course covers digital design concepts and fundamentals. Combinational logic circuits, MSI and LSI circuits, sequential circuit analysis and design. Modern logic developments are also covered. Prerequisites: MATH 126 and MATH 127, or MATH 128.

CPE 100L Computer Logic Design I Laboratory 1 (0,3,0,0)

This laboratory course covers the following experiments: a) Basic logic gates, Boolean algebra and logic simplifications, b) combinational logic circuits and their applications, flip-flops and related devices, c) MSI circuits including multiplexers, decoders; d) binary adders, and asynchronous and synchronous counters. Corequisite: CPE 100.

CPE 200 Computer Logic Design II 3 (3,0,0,0)

This course is the second half of one-year course to study digital logic design. It covers a) sequential logic, synchronous and asynchronous circuits, hazards; b) PAL/PLA based logic implementation; c) introduction to computers, instruction set architecture; d) computer arithmetic, assembly language. Prerequisite: CPE 100.

CPE 200L Computer Logic Design II Laboratory 1 (0,3,0,0)

This laboratory course covers a) design and testing of combinational and sequential logic circuits; b) synchronous and asynchronous counters, races, cycles, and hazards, with timing considerations; c) design programmable logic devices (PLD), simple arithmetic logic unit; d) assembly language and arithmetic logic unit simulation. Corequisite: CPE 200.

Criminal Justice

**CRJ 103 Communication Within the
Criminal Justice Field 3 (3,0,0,0)**

Prepares the student to be able to communicate within the criminal justice field by introducing him/her to the five basic communication skills: report writing, non-verbal communication, basic public speaking, interviewing and interrogating skills, and courtroom testimony.

**CRJ 104 Introduction to Administration
of Justice 3 (3,0,0,0)**

American criminal justice system, its development, components, and processes. Includes consideration of crime and criminal justice as a formal area of study.

**CRJ 105B Corrections Operations
and Jail Management 3 (3,0,0,0)**

Administration and management of the jail. Psychological impact of the jail on both the inmate and the corrections officer. Prerequisite: CRJ 104.

**CRJ 106 Introduction to
Corrections 3 (3,0,0,0)**

The history and development of correctional agencies, particularly prisons. Designed to raise questions about the organizational and structural forces facilitating and impeding change. Prerequisite: CRJ 104.

**CRJ 108 Introduction to
Homeland Security 3 (3,0,0,0)**

This course will introduce students to the vocabulary and important components of Homeland Security. Students will discuss the importance of the agencies associated with Homeland Security and their interrelated duties and relationships. This course will examine historical events that impact Homeland Security. It will also explore state, national, and international laws impacting Homeland Security. It will examine the most critical threats confronting Homeland Security.

**CRJ 110B Introduction to Nevada
Law Enforcement 3 (3,0,0,0)**

This course provides a systematic approach to examination of criminal justice in the State and in particular Southern Nevada. It will also include an overview of the major subsystems: police, prosecution, defense, courts, corrections and juvenile justice. This course is designed for students who will be attending the Law Enforcement Training Academy.

CRJ 111B Firearms I 3 (2,2,0,0)

Laws of arrest, search and seizure. Moral and ethical aspects of the use of deadly force. Firearm handling, safety, range nomenclature, marksmanship and qualification.

**CRJ 113B 911 Communications
Specialist I 3 (3,0,0,0)**

This course will provide the student with the basic skills needed for a career as an Emergency 911 Communications Specialist. Students will learn history, terms and codes, and liability issues associated with 911 telecommunicators. Additionally, students will learn classification and prioritization of crimes/calls, various calls screening methods for 911 and 311, conflict resolution and listening skills. Meets Nevada Post Standards.

CRJ 114B Firearms II 2 (1,2,0,0)

Continuation of CRJ 111B. Advanced range qualification, precision marksmanship, defensive measures, counter ambush procedures, combat shooting, robbery in progress, building searches and shotgun use. Prerequisite: CRJ 111B.

CRJ 120 Community Relations 3 (3,0,0,0)

This course provides an understanding of the positive and negative relationships between criminal justice professionals and various members of the community. Prerequisite: CRJ 104.

CRJ 130 Survey of Criminal Law 3 (3,0,0,0)

An introduction to criminal law, its common law origins, basic concepts and applications in legal proceedings. Prerequisite: CRJ 104.

CRJ 140 Elements of Supervision 3 (3,0,0,0)

An introduction to supervisory roles in criminal justice agencies, selection process for supervisors, models for decision making and leadership styles. Prerequisite: CRJ 104.

**CRJ 145 Transportation
and Border Security 3 (3,0,0,0)**

This course provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses, etc. This course focuses on the technology needed to detect terrorists and their weapons as well as includes discussion on legal, economic, political, and cultural aspects of the problem. Prerequisite: CRJ 108 or EMA 101.

CRJ 155 Juvenile Justice System 3 (3,0,0,0)

Explanations for deviant behavior, police encounters with juveniles, juvenile court process, juvenile dispositions and after care. Prerequisite: CRJ 104.

**CRJ 160 Business Continuity
and Resilience 3 (3,0,0,0)**

This course provides instruction in the importance of an effective Continuity of Operations Plan/Program (COOP). The course will provide fundamental understanding of continuity of operations, terms, objectives, and benefits to private business and public agencies. The course will emphasize the importance of having a plan which provides for a rapid and efficient return to business after an emergency. Prerequisite: CRJ 108 or EMA 101.



CRJ 161 Crime Scene Investigation 3 (3,0,0,0)

This course will provide the fundamentals of modern crime scene investigation including procedures and skills in securing, searching and investigating a crime scene, behavior at the crime scene, and the collection and preservation of evidence. The student will also learn how to prepare a report for use in court proceedings. Prerequisite: CRJ 104.

CRJ 162 Investigative Photography I 3 (3,0,0,0)

A course covering the photographic processes and their use in police, fire and security services. An elementary knowledge of photography is required. Prerequisite: CRJ 104.

CRJ 163 Investigative Photography II 3 (3,0,0,0)

A course covering advanced investigative photography techniques and the use of digital photography. Prerequisite: CRJ 162.

CRJ 164 Introduction to Criminal Investigation 3 (3,0,0,0)

The investigation process: crime scene search, evidence collection and preservation, interviews and interrogations and case preparation. Prerequisite: CRJ 104.

CRJ 165 Criminalistic Science 3 (3,0,0,0)

Evidence collection and preservation, scientific analysis, laboratory procedures and techniques to ensure chain of custody. Prerequisite: CRJ 104.

CRJ 167B Preliminary Investigation for Police Recruits 3 (3,0,0,0)

This course will provide the basic skills needed to do effective police preliminary criminal investigations. The emphasis will be on learning proper techniques as a first responder to a crime scene, how to secure a crime scene and controlling the scene including determining if a crime occurred, rendering aid to the injured, arresting suspects and securing witnesses.

CRJ 169B Crime Lab Operations 3 (3,0,0,0)

This course will provide a clear overview of each area of responsibility within a crime lab. Topics will include the educational and training requirements to work within each of these areas and how the crime lab interacts with the law enforcement agencies they serve. Prerequisite: CRJ 104.

CRJ 170B Physical Training for Law Enforcement 1 (0,2,0,0)

Post pretest. Physical training relevant to a law enforcement profession to prepare for the final physical training test.

CRJ 208 Criminal Street and Prison Gangs 3 (3,0,0,0)

Examines the causes and consequences of street and prison gangs as well as the larger community, societal, and international context in which they are created, evolve, and flourish, as well as the socio-legal policies designed to control it.

CRJ 210B Community Policing in Southern Nevada 3 (3,0,0,0)

This course provides an introduction into the community policing models of Southern Nevada. It will also include an overview of the history, definition, evaluation and proactive policing concepts as applied to the various groups of citizens served by law enforcement agencies. This course is designed for students who will be attending the Law Enforcement Training Academy.

CRJ 211 Police in America 3 (3,0,0,0)

History of the American police; the pioneers, processes, evolution and dynamics of the police in society. Explores the basic philosophy of law enforcement and its application in criminal justice. Prerequisite: CRJ 104.

CRJ 213B 911 Communications Specialist II 3 (3,0,0,0)

This course will provide the student with the necessary skills for entry and promotions as 911 Communications Specialist. The course will provide advanced skills in radio dispatching procedures, critical incident stress management, homeland security, verbal judo and hands-on experience through simulation of job functions. This course meets Nevada Post standards. Student must be at least 18 years old with no criminal records. Prerequisite: CRJ 113B.

CRJ 214 Principles of Police Patrol Techniques 3 (3,0,0,0)

An examination of the mission, operations and issues in police patrol. Report writing skills, techniques of observation, hazard recognition, non emergency calls. Prerequisite: CRJ 104.

CRJ 215 Probation and Parole 3 (3,0,0,0)

Survey of probation and parole systems in the United States. Exploration of skills necessary to be an effective parole or probation officer. Prerequisite: CRJ 104.

CRJ 216B Police Patrol Tactics 3 (3,0,0,0)

This course will provide a basic understanding of police patrol techniques. Various methods and procedures used including tactics for routine patrol, responding for calls for service, citizen contact, and how to handle suspects. Students will understand legal requirements.

CRJ 219B Emergency Vehicle Operation and Control 3 (1,4,0,0)

Shuffle steering, steering motion dynamics and vehicle braking (lock-wheel, ABS, impending). Pursuit driving times (vehicle timing) and techniques. Measurement of hearing and tunnel vision.

CRJ 220 Criminal Procedures 3 (3,0,0,0)

A study of the substantive and procedural laws governing the arrest and prosecution of criminal offenders. Prerequisite: CRJ 104.

CRJ 221B Criminal Procedures for Law Enforcement 3 (3,0,0,0)

This course will provide an understanding of the laws, court decisions and legal procedures for the law enforcement officer. Students will learn the legal framework necessary for law enforcement officers to conduct their duties legally.

CRJ 225 Criminal Evidence 3 (3,0,0,0)

A study of evidence rules and procedural laws affecting criminal evidence. Overview of the appeal process with particular attention to recent U.S. Supreme Court Decisions. Prerequisite: CRJ 104.

CRJ 229B Defensive Tactics 3 (1,4,0,0)

Protection against persons armed with dangerous and/or deadly weapons. Demonstration and drill in a number of holds, come alongs, restraints and baton use.

CRJ 233 Nevada Criminal Law 3 (3,0,0,0)

To familiarize the CRJ student with Nevada Criminal Law as set forth in the Nevada Revised Statutes and as interpreted and tested in cases before the Nevada Courts. Prerequisite: CRJ 104.

CRJ 235 Legal Method and Process 3 (3,0,0,0)

Federal and local judicial systems, analysis and synthesis of judicial opinions, the methods of interpretation of statutes, and the role of the courts in conflict resolution. Prerequisite: CRJ 104.

CRJ 239B Gaming Crimes 3 (3,0,0,0)

This course will provide a basic understanding of gaming crimes including the appropriate legal definitions and efforts made to reduce these crimes. Topics covered will include cheating and detection, Nevada's "Black Book", gambling addiction and treatment, criminal and civil penalties, and the role of the Nevada Gaming Commission. Prerequisite: CRJ 104.

CRJ 261 Intelligence Analysis and Security Management 3 (3,0,0,0)

This course examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks, man-made disasters and natural disasters. It also explores vulnerabilities of our national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters, and natural disasters. Students will discuss substantive issues regarding intelligence support of homeland security measures implemented by the United States and explore how the intelligence community operates. Prerequisite: CRJ 108 or EMA 101.

CRJ 270 Introduction to Criminology 3 (3,0,0,0)

A study of society's efforts to explain and control criminal behavior; discussion of the prevailing theories related to crime in organized society. Prerequisites: CRJ 104, 120, and 130.

CRJ 286 Sexual Abuse of Children 3 (3,0,0,0)

This course focuses on the complex issues associated with the sexual abuse of children. Emphasis will be on the definition of crimes against children, typology of offenders and victims, sex registration laws, and the roles of criminal justice agencies. Course meets police agency standards.

CRJ 290 Internship in Criminal Justice 3 (0,0,0,3)

Work with selected administration of justice agencies. This class can be repeated for a maximum of 6 credits. Prerequisites: CRJ 104 and permission of the instructor.

Cardiorespiratory Sciences

CRS 100B Introduction to Respiratory Therapy 1 (1,0,0,0)

Defines role of Respiratory Therapy. Education, job description, and outlook of the profession are presented. Fundamental equipment will be explored through hands-on manipulation.

CRS 111 Introductory Concepts of Cardiorespiratory Sciences 3 (3,0,0,0)

Presents an overview of health care delivery system and cardiorespiratory professional structures. Basic CRS care modalities are emphasized in context of clinical practice guidelines, therapist-driven protocols, and critical pathways. Prerequisite: Admission to CRS program.

CRS 112 Introductory Concepts of Cardiorespiratory Equipment 1 (0,4,0,0)

Emphasizes skill development of non-critical cardiorespiratory care treatment modalities. Equipment application and operation theory presented in context of guidelines, protocols, and pathways. Corequisite: CRS 111.

CRS 115 Clinical Practicum I 4 (0,0,16,0)

Introduces the non-critically ill cardiorespiratory patient in the clinical setting. Emphasizes hospital decorum, professionalism, equipment theory and application, guidelines, protocols and pathways. Corequisite: CRS 111.

CRS 121 Advanced Concepts of Cardiorespiratory Sciences 3 (3,0,0,0)

Introduces acute (critical) cardiorespiratory care emphasizing all aspects of mechanical ventilation and patient monitoring. Critical thinking skills will be further developed through simulated cardiorespiratory care plans. Prerequisite: CRS 115.

CRS 315 Clinical Practicum VI 4 (0,0,16,0)

An advanced clinical practicum for the working Respiratory Therapist. Focus is individualized for each student. Corequisite: CRS 312.

CRS 322 Research and Evidence-Based Practice 3 (3,0,0,0)

An introduction to evidence-based practice and respiratory care research. Overview of research methodology, statistical analyses, ethical considerations, critical evaluation of peer-reviewed literature, systems change theories, and quality improvement.

CRS 412 Long-Term and Palliative Survey of Cardiorespiratory Care 3 (3,0,0,0)

Topics pertinent to long-term care facilities including ethics, care, rehabilitation, reimbursement, family interaction, psychology of long-term illness (both patient and family). Palliative care, hospice philosophy, end-of-life topics.

CRS 421 Essentials of Sleep 3 (3,0,0,0)

Emphasizes skill development in polysomnography. Introduction to sleep disorders, including monitoring techniques and instrumentation. Documentation of laboratory experience is required. Optional concentration on polysomnography in CRS 422 and CRS 425 as corequisite will prepare student for the NBRC Sleep Diagnostic Specialist exam.

CRS 422 Special Project in Cardiorespiratory Sciences 1 (0,0,0,3)

Students select area of desired specialty. Specialty must match area of desired clinical concentration in CRS 425. Development of faculty-guided research article, poster presentation, or community advocacy project required. Corequisite: CRS 425.

CRS 425 Clinical Practicum VII 4 (0,0,16,0)

Students may select area of clinical specialization which may prepare them for a national certification. Specialty areas include polysomnography, asthma/COPD, simulation, teaching practicum, adult critical care, neonatal or pediatric intensive care, pulmonary diagnostics, or point-of-care. Corequisite: CRS 422.

Computer Science

CS 117 Programming for Scientists and Engineers 3 (3,0,0,0)

This course is intended for students in science or engineering majors. It will cover structured approach to programming and problem solving in Fortran language, including use of standard library routines. Emphasis will be placed on techniques of good programming style and on solving numerical problems commonly encountered in science and engineering. Prerequisite: MATH 181.

CS 135 Computer Science I 3 (3,1,0,0)

This course is intended for students in computer science or engineering majors. It covers: a) Program development in a complex operating environment; b) Problem-solving methods and algorithm development in a high-level programming language; c) Program design, coding, debugging, and documentation using techniques of a good programming style. Prerequisite: MATH 127 or 128.

CS 202 Computer Science II 3 (3,0,0,0)

This course is the continuation of CS 135. It covers: a) Data structures and algorithms for manipulating linked lists; b) String and file processing; c) Recursion. Software engineering, structured programming and testing, especially larger programs are also covered in this course. Prerequisite: CS 135.

Cisco

CSCO 105B Fundamentals of Voice and Data Cabling 3 (2,2,0,0)

This course will provide the student academic knowledge and experience relating to the physical aspects of voice and data networks. Training will be given on how to identify cable types; design, install, and troubleshoot cabling plants. Training is in a hands-on, group oriented lab environment that will stress documentation, design, installation issues, and on the job safety. Successful students will be prepared to complete the BICSI Installer Level 2c certification exam.

CSCO 109B PC Troubleshooting and Repair 3 (2,2,0,0)

This hands-on, lab-oriented Cisco course will develop the necessary skills to enter this field by building a computer, installing the operating system, adding peripherals, connecting the computer to a local area network and to the Internet, while stressing laboratory safety and working effectively in a group environment.

CSCO 120 CCNA Internetworking Fundamentals 4 (3,2,0,0)

This is a networking fundamentals course that introduces students to the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced.

CSCO 121 CCNA Routing Protocols and Concepts 4 (3,2,0,0)

This is one of four courses that apply toward the preparation for a CCNA certification. This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. Prerequisite: CSCO 120.

CSCO 130B Fundamentals of Wireless LANs 3 (2,2,0,0)

An intensive introduction to wireless LANs which focuses on the design, planning, implementation, operation and troubleshooting of wireless LANs. This hands-on lab-oriented course stresses documentation, design, and installation issues, as well as lab safety, on-the-job safety, and working effectively in a group environment. This course will help prepare students for the Cisco wireless LAN Support Specialist Designation. Prerequisite: CSCO 121B.

CSCO 205B Fiber Optic Cabling 1-4 (0-3,0-2,0,0)

Intermediate Cabling course on Fiber Optics system concepts, design, installation, and troubleshooting. Covered items include cable splicing, terminating and installing optical fiber cable, field terminology and using test equipment. This course can be repeated for up to a total of 4 credits.

CSCO 220 CCNA LAN Switching and Wireless Fundamentals 4 (3,2,0,0)

This is one of four courses that applies toward the preparation for a CCNA certification. This course helps students develop an in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks. Beginning with a foundational overview of Ethernet, this course provides detailed explanations of LAN switch operation, VLAN implementation, Rapid Spanning Tree Protocol (RSTP), VLAN Trunking Protocol (VTP), Inter-VLAN routing, and wireless network operations. Students analyze, configure, verify, and troubleshoot VLANs, RSTP, VTP, and wireless networks. Campus network design and Layer 3 switching concepts are introduced. Prerequisite: CSCO 120.

CSCO 221 CCNA WAN Fundamentals 4 (3,2,0,0)

This is one of four courses that applies toward the preparation for a CCNA certification. It explains the principles of traffic control and access control lists (ACLs) and provides an overview of the services and protocols at the data link layer for wide-area access. Students learn how to implement and configure WAN protocols. WAN security concepts, tunneling, and VPN basics are also introduced. Prerequisite: CSCO 220.

CSCO 230B Fundamentals of Network Security 4 (3,2,0,0)

The Fundamentals of Network Security course is designed to prepare students for certification in this field (Cisco and CompTIA security exams). The course teaches students to design and implement security solutions to reduce the risk of revenue loss and vulnerability. This course combines hands-on experience, instructor-led lectures, and a Web based curriculum for students. The course is an introduction to network security and overall security processes. This course prepares the student for successful completion of the Cisco CCNA Security certification exam. Students taking this course are assumed to have already obtained, through coursework or industry experience, the knowledge required to pass the Cisco CCNA exam.

CSCO 280 CCNP ROUTE 4 (3,2,0,0)

The CCNP ROUTE course prepares students with the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalability for Cisco ISR routers connected to LANs and WANs. The course is recommended preparation for the CISCO CCNP Certification Exam, ROUTE. Prerequisite: CSCO 221 or CCNA certification.

CSCO 281 CCNP Implementing Secure Converged Wide Area Networks 4 (3,2,0,0)

This course prepares students with the knowledge and skills necessary to secure and expand the reach of an enterprise network to teleworkers and remote sites with focus on securing remote access and VPN client configuration. The course covers topics on the Cisco hierarchical network model as it pertains to the WAN, teleworker configuration and access, frame mode MPLS, site-to-site IPSEC VPN, Cisco EZVPN, strategies used to mitigate network attacks, Cisco device hardening and IOS firewall features. This course is recommended preparation for the Implementing Secure Converged Wide Area Networks exam required to become a Cisco Certified Network Professional (CCNP). Prerequisite: CSCO 221 or CCNA certification.

CSCO 282 CCNP Multilayer Switching 4 (3,2,0,0)

This course prepares students with the knowledge and skills necessary to implement scalable multilayer switched networks. This course includes topics on Campus Networks, describing and implementing advanced Spanning Tree concepts, VLANs and Inter-VLAN routing, High Availability, Wireless Client Access, Access Layer Voice concepts, and minimizing service Loss and Data Theft in a Campus Network. This course is recommended preparation for the Multi-layer Switching exam required to become a Cisco Certified Network Professional (CCNP). Prerequisite: CSCO 221 or CCNA certification.

CSCO 283 CCNP Optimizing Converged Internetworks 4 (3,2,0,0)

This course prepares students with the knowledge and skills necessary in optimizing and providing effective QoS techniques for converged networks. The course topics include implementing a VOIP network, implementing QoS on converged networks, specific IP QoS mechanisms for implementing the DiffServ QoS model, AutoQoS, wireless security and basic wireless management. This course is recommended preparation for the Optimizing Converged Cisco Networks exam required to become a Cisco Certified Network Professional (CCNP). Prerequisite: CSCO 221 or CCNA certification.

CSCO 284B CCNP TSHOOT 4 (3,2,0,0)

This course prepares the student for the Cisco TSHOOT certification exam. It teaches students how to monitor and maintain complex, enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, based on systematic and industry recognized approaches. Extensive labs emphasize hands-on learning and practice to reinforce troubleshooting techniques.

Culinary Arts

CUL 100 Sanitation/HACCP 2 (2,0,0,0)

Theory and practice of Culinary Sanitation. Course covers proper food handling techniques, food borne illness prevention and introduction to “Hazard Analysis Critical Control Point” method of kitchen operations. Meets standards of National Sanitation Certification.

CUL 110 Basic Cookery 4 (2,4,0,0)

Introduction to culinary fundamentals, techniques and skills of modern cookery. Class covers procedures, ingredients and cooking theories.

CUL 115 Introduction to Butchery and Charcuterie 3 (2,3,0,0)

Students will learn proper receiving, inspection, and fabrication of meats, poultry, fish and shellfish. Basic techniques of smoking and force meat production will also be covered. Prerequisites: CUL 110, FAB 102.

CUL 125 Principles of Baking 3 (2,3,0,0)

This course will cover baking ingredients, use of equipment, proper storage and sanitation methods. Students will learn how to produce yeast products, pastries, pies, cookies and quick breads. Prerequisite: FAB 102.

CUL 130 Garde Manger 3 (2,3,0,0)

Fundamentals of pantry with proper techniques and procedures in egg cookery, hot and cold sandwiches, lunch and dinner salads and dressings, basic garnishes, canapés and hot and cold appetizer production. Prerequisites: CUL 110, FAB 102.

CUL 135 Breads of the World 3 (2,3,0,0)

Students will learn measuring methods and scaling techniques, proper handling of yeast doughs, specialty doughs, different batters, and laminated doughs. Prerequisite: FAB 102.

CUL 140 Catering Operations 3 (2,3,0,0)

This course teaches students how to plan and execute various types of catered events. The course will include planning, pricing, organization and preparation of the event. This includes planning and production of foods from assorted cuisines. Both front and back of the house operations will be covered. Prerequisites: CUL 110, FAB 102.

CUL 175 Cake Design 3 (2,3,0,0)

Students will learn basic mixing techniques, ingredients, measuring and scaling. Instruction includes production of icings, fillings, specialty cakes, and cake decorating. Prerequisites: CUL 125, FAB 102.

CUL 200 Aromatics/Restaurant Experience 4 (2,4,0,0)

Students will learn basic history and use of herbs and spices. They will learn how to enhance foods through proper usage. This class includes participation in actual restaurant operations. Prerequisites: CUL 110, FAB 102.

CUL 215 Plated Desserts 3 (2,3,0,0)

Introduction to hot, cold, and frozen desserts. Students will learn how to make ice creams, sorbets, and parfaits. This course will cover chocolate decorations and the creation of plate presentations using fresh fruits and dessert sauces. Prerequisites: CUL 125, FAB 102.

CUL 220 International Cuisine 4 (2,4,0,0)

Study of international foods with an emphasis on authentic ingredients and their proper usage. Participation in restaurant operations is included in this class. Prerequisites: CUL 110, 200, FAB 102.

CUL 225 Advanced Baking 3 (2,3,0,0)

This course will cover advanced and specialty breads, brioche and coffee cakes. Students will also learn how to make puff dough pastries, quiches, custards, and ice cream and sorbets. Prerequisites: CUL 125, FAB 102.

CUL 230 Pastry Arts 3 (2,3,0,0)

Course study will include European Pastries. Emphasis will be placed on ingredients, techniques, measuring, sealing, assembly and storage. Prerequisites: CUL 125, FAB 102.

CUL 235 Advanced Garde Manger 3 (2,3,0,0)

Preparation techniques for force meats, mousses, galantines, terrines and pates. Perform cheese, salt, tallow and ice sculpting. Discuss hot and cold food competition guidelines. Prerequisites: CUL 130, FAB 102.

CUL 240 French Cuisine 4 (2,4,0,0)

Culinary fundamentals of classical cuisines are practiced in a weekly preparation of gourmet menus in a restaurant setting. Special emphasis is placed on proper cooking techniques. Prerequisites: CUL 110, 200, FAB 102.

CUL 250 Saucier 3 (2,3,0,0)

Basic sauce concepts and technical guidelines to produce high quality sauces. Covers stocks, thickening agents, reductions, liaisons, purees, mother sauces and compound derivations. Prerequisites: CUL 110, 200, FAB 102.

CUL 255B Retail Bakery Management 3 (2,3,0,0)

This course introduces students to the application of baking and pastry arts production techniques in a wholesale and/or retail setting. The student is introduced to the theory regarding proper techniques for marketing and merchandising baked goods. Cost control for bakeries as well as recipe standardization and conversion, production planning, purchasing, costing and price for profit will be looked at. It will also feature the theory and practice of pastry buffet planning including themes and presentations. Prerequisites: CUL 125, FAB 102.

CUL 260 Introduction to Chocolate 3 (2,3,0,0)

This course will cover the use of tempered chocolate for dipping, molding, and decorating. Students will learn to develop creative skills using chocolate. This course also covers techniques in piping, modeling, cutouts and curls. Prerequisite: FAB 102.

CUL 265 Introduction to Sugar Arts 3 (2,3,0,0)

This course will cover the fundamentals of the art of pulled sugar including product identification, proper production techniques, and proper usage. Students will learn to create pulled sugar pieces, blown sugar pieces and poured pieces. They will also learn to use them in the design and production of centerpieces. Prerequisite: FAB 102.

CUL 270 Ice Carving 1 (1,1,0,0)

A basic class devoted to developing the skills necessary to plan and produce functional and decorative Ice Sculptures. The class covers the safe use of hand and power tools as well as methods and procedures for transport and display.

CUL 275 Advanced Cake Design 3 (2,3,0,0)

This course covers advanced techniques in cake decorating. Students will learn how to make advanced icings such as fondant and royal icing, and how to assemble and decorate advanced specialty and wedding cakes. Prerequisite: CUL 175.

CUL 280B Principles of Quantity Baking 3 (2,3,0,0)

This course will emphasize fundamental baking and pastry production techniques used in wholesale and/or retail bakeries. The student will participate in the production of scratch baking and commercial product usage. Group practice skills in team building and communication will be covered. American and European style pastry products will be featured. Baker's percentages and conversion will be emphasized. Prerequisites: CUL 125, FAB 102.

CUL 285B Advanced Chocolate 3 (2,3,0,0)

The various methods for tempering and the different types of chocolate will be reviewed. Students will learn advanced molding, shaping and texturing techniques. Creating an advanced showpiece will also be covered. Prerequisites: CUL 260, FAB 102.

CUL 290 Culinary Competition 3 (2,4,0,0)

Covers both category A and B for food shows based on the American Culinary Federation guidelines. Student may choose either category for the practical hands-on. Prerequisite: FAB 102.

CUL 295 Work Experience in Culinary Arts 1 (0,0,0,1)

In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV's 1000-hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to a maximum of four credits. Grade will be given upon verification of employment.

Dental Assisting**DA 106B Radiation Protection for Dental Auxiliaries 1 (1,0,0,0)**

Course designed to acquaint the participant with radiation hazards and protection services for patient and operator.

DA 107B Intraoral Radiographic Technique 2 (1,2,0,0)

Production of dental radiographs including processing, mounting and eliminating errors. Participants will expose, mount and critique a complete radiographic survey of a mannequin and selected patients.

DA 108B Introduction to Dental Assisting 2 (2,0,0,0)

Overview of the dental occupations, dental terminology, dental history, interpersonal relationships and employment requirements.

DA 115B Dental Health Education 1 (1,0,0,0)

Principles of preventive dentistry to include: nutritional physiology, essentials and counseling effect of nutrition on dental health; epidemiology, etiology and prevention of dental disease; design and management of a plaque control program and additional preventive measures, i.e., fluoride and sealant utilization.

DA 118B Dental Materials for Dental Assistants 3 (2,3,0,0)

Composition, characteristics, physical properties and uses of materials commonly used in dental practice. Includes laboratory practice in manipulating dental materials.

DA 119B Dental Chairside Procedures 4 (2,8,0,0)

Development of the dexterity needed to assist in four-and six-handed dentistry, demonstrating proper posture and form at chairside. Positive communication, sterilization, disinfection, and neatness are stressed, plus knowledge of instruments, dental operative procedures, manipulation of cements, bases and impression materials.

DA 120B Introduction to Dental Insurance 1 (1,0,0,0)

Introduction to dental insurance processing including alternative payment plans. Introduction to CDT coding.

DA 123B Practice Management and Procedures 3 (3,0,0,0)

Principles of dental office routine, reception duties, book-keeping, appointment control, correspondence, telephone technique, filing, interview techniques, and computer applications.

DA 124B Integrated Science for Dental Assistants 4 (4,0,0,0)

Anatomy and physiology of the body systems, with special emphasis on the head and neck. Embryology, histology and tooth morphology are included.

DA 126B Clinical Externship 6 (1,0,0,20)

Supervised clinical dental assisting experience in selected private dental practices and public clinics.

DA 128B Dental Radiology 3 (2,3,0,0)

An introduction to basic concepts of radiology, including radiation protection, intraoral and panoramic techniques of film exposure, processing and mounting.

DA 136B Dental Specialties 3 (3,0,0,0)

A survey of the role of the dental assistant in the specialties of dentistry including orthodontics, pedodontics, oral surgery, periodontics, endodontics, and prosthodontics.

DA 299B Independent Study 1-5 (1-5,0,0,0)

Selected topics of interest to dental assisting students.

Dance

DAN 101 Dance Appreciation 3 (3,0,0,0)

A multicultural exploration of the world's first and most universal art form. Ballet history, sex and social dance, the politics of dance and 20th century self-expression among others are investigated through lecture, video and demonstration.

DAN 108 Pilates I 1 (1,2.5,0,0)

Pilates based floor work emphasizing increased flexibility and strength with application to dancers and non-dancers alike.

DAN 115 Middle Eastern Dance I 1 (1,2.5,0,0)

Learn to isolate and undulate gracefully to the mysterious sounds of Middle Eastern music. Explore the ancient arts of belly dance and the people throughout history who have contributed to its evolution.

DAN 119 Swing Dance 1 (1,2.5,0,0)

Further development of swing dance styles introduced in beginning ballroom dance. Students should have taken DAN 125 or equivalent. This course may be repeated to a maximum of four credits.

DAN 125 Ballroom Dance (Beginning) 1 (1,2.5,0,0)

Instruction in the major ballroom dances, including waltz, swing, fox trot, tango, rumba, and the cha-cha.

DAN 126 Ballroom Dance (Beginning/Intermediate) 1 (1,2.5,0,0)

Continuation of beginning ballroom dance. Students should have taken DAN 125 or equivalent. This course may be repeated to a maximum of four credits.

DAN 128 Latin Dance 1 (1,2.5,0,0)

Further development of Latin dances introduced in beginning ballroom dance. Students should have taken DAN 125 or equivalent. This course may be repeated to a maximum of four credits.

DAN 132 Jazz Dance (Beginning) 1 (1,2.5,0,0)

Beginning techniques of jazz dance.

DAN 133 Jazz Dance (Beginning/Intermediate) 1 (1,2.5,0,0)

Continuation of beginning jazz dance. Students should have taken DAN 125 or equivalent. This course may be repeated to a maximum of four credits.

DAN 135 Ballet (Beginning) 1 (1,2.5,0,0)

Beginning techniques and theory of classical ballet. This course may be repeated to a maximum of four credits.

DAN 136 Ballet (Beginning/Intermediate) 1 (1,2.5,0,0)

Continuation of beginning ballet with more demanding concepts and skills. Students should have taken DAN 135 or equivalent. This course may be repeated to maximum of four credits.

DAN 138 Modern Dance (Beginning) 1 (1,2.5,0,0)

Introductory technique and theory of modern concert dance. This course may be repeated up to a maximum of four credits.

DAN 139 Modern Dance (Beginning/Intermediate) 1 (1,2.5,0,0)

Continuation of Modern Dance (Beginning). Students should have taken DAN 138 or equivalent. This course may be repeated to a maximum of four credits.

DAN 144 Tap Dance (Beginning) 1 (1,2.5,0,0)

Beginning techniques of tap dancing.

DAN 145 Tap Dance (Beginning/Intermediate) 1 (1,2.5,0,0)

Continuation of beginning tap dance. Students should have taken DAN 144 or equivalent. This course may be repeated to a maximum of four credits.

DAN 175 Yoga for Dancers 1 (1,2.5,0,0)

Yoga techniques of stretching and breathing applied to the dancer's instrument with resultant stress relief, increased flexibility and enhanced physical alignment.

DAN 188 Dance Improvisation 2 (2,1.5,0,0)

Development of performance and compositional skills through the exploration and analysis of basic dance elements including time, shape, space, motion and dynamics.

DAN 215 Middle Eastern Dance II 1 (1,2.5,0,0)

A continuation of learning to isolate and undulate gracefully to the mysterious sounds of Middle Eastern music. A further exploration of the ancient arts of belly dance and the people throughout history who have contributed to its evolution. Students should have taken DAN 115 or equivalent. Course will build on the fundamentals of Middle Eastern dance technique.

DAN 225 Ballroom Dance (Intermediate) 1 (1,2.5,0,0)

Intermediate techniques of ballroom dance. Students should have taken DAN 125 or equivalent. This course may be repeated to a maximum of four credits.

DAN 232 Jazz Dance (Intermediate) 1 (1,2.5,0,0)

Intermediate techniques of jazz dance. Students should have taken DAN 132 or equivalent. This course may be repeated to a maximum of four credits.

DAN 235 Ballet (Intermediate) 1 (1,2.5,0,0)

Intermediate technique and theory of classical ballet. Students should have taken DAN 136 or equivalent. This course may be repeated to a maximum of four credits.

DAN 236 Ballet (Intermediate/Advanced) 1 (1,2.5,0,0)

A continuation of Ballet (Intermediate). Students should have taken DAN 235 or equivalent. This course may be repeated to a maximum of four credits.

DAN 238 Modern Dance (Intermediate) 1 (1,2.5,0,0)

Intermediate technique and theory of modern concert dance. Students should have taken DAN 138 or equivalent. This course may be repeated to a maximum of four credits.

DAN 239 Modern Dance (Intermediate/Advanced) 1 (1,2.5,0,0)

Continuation of Modern Dance (Intermediate). Students should have taken DAN 238 or equivalent. This course may be repeated to a maximum of four credits.

DAN 244 Tap Dance (Intermediate) 1 (1,2.5,0,0)

Intermediate techniques of tap dance. Students should have taken DAN 144 or equivalent. This course may be repeated to a maximum of four credits.

DAN 245 Repertory Tap Dance 1 (1,2.5,0,0)

Learning of tap repertory and new choreography leading to performance opportunities. Students should have taken DAN 144 or equivalent. This course may be repeated to a maximum of four credits.

DAN 281 Dance Performance 1 (1,2.5,0,0)

Learning of repertory and new choreography leading to performance opportunities. Students should have taken DAN 144 or equivalent. This course may be repeated to a maximum of four credits.

DAN 284 Dance Project 1 (0,1,0,0)

Complete production of a dance piece including choreography, sound score selection, costume design, and all production aspects to result in performance of the piece in the CSN Student Dance Concert. Restricted to AA Dance Emphasis candidates. Prerequisites: DAN 188, 288.

DAN 287 Concert Dance Company 1 (1,2.5,0,0)

Professionally structured rehearsals of repertory and new choreography in preparation for formal performances, educational outreach programs and possible touring. Students should also be registered for a combination of technique courses: DAN 138 and DAN 235, or DAN 136 and DAN 238, or DAN 235 and DAN 238. Class size for DAN 287 is limited and audition will be the first day of class.

DAN 288 Choreography 2 (2,1.5,0,0)

Introduction to the art of making dances with emphasis on the manipulation of time, shape, space, motion and dynamics.

Dental Hygiene

DH 100B Introduction to Dental Hygiene 1 (0.5,0,0,1)

Guided study of the role, responsibilities, and career opportunities of the dental hygienist. Field observation required.

DH 102 Oral Biology 3 (2,3,0,0)

Histology and embryology of oral structural formation. Clinical recognition of normal oral structures, study of physiological and structural functions of the teeth, head and neck and supporting tissues. Prerequisite: Any Anatomy and Physiology course with a lab.

DH 104 Dental Hygiene I 3 (3,0,0,0)

Introduction to dental hygiene practice. Use and care of instruments, medical and dental histories, emergencies, infection control, appointment procedures and clinical operations. Corequisite: DH 105.

DH 105 Introduction to Clinical Practice 2 (0,0,7,1)

Clinical application of diagnostic, preventive and therapeutic procedures utilized in patient care by a dental hygienist. Corequisite: DH 104.

DH 107 Legal and Ethical Implications in Dental Hygiene 2 (2,0,0,0)

Introduction to professional, legal and ethical concepts in Dental Hygiene.

DH 108B Concepts of Prevention 2 (2,0,0,0)

Basic concepts of oral hygiene care, adjunctive aids and foundations of preventive oral health services. Introduction to deposits, stains and fluorides.

DH 110 Concepts of Oral Health 2 (1,3,0,0)

Basic concepts of oral health care, adjunctive aids and foundation of preventive strategies. Introduction to product evaluation, disease process, needs assessment, behavior modification, learning principles, deposits, stains and fluoride.

DH 112 Oral Radiology 3 (2,3,0,0)

A study of the theory of radiology, the techniques of film exposure, processing, mounting and interpreting. Radiation dosage and hazards as well as protection services for patient and operator are stressed.

DH 115 Clinical Practice I 3 (0,0,10,2)

Practice in performing oral prophylaxis, sterilization, patient management, patient education, fluoride use, charting, inspection of teeth, patient scheduling and recare systems. Prerequisites: DH 104, 105.

DH 116B Supervised Clinical Practice 1 (0,0,4,0)

This course is designed to provide continuity of clinical practice. The student will continue to improve clinical skills. Graded Pass/Fail only. Course may be repeated up to 5 times.

DH 117 Periodontics I 2 (1,3,0,0)

Advanced instrumentation, ultrasonic devices, root planing, curettage, subgingival irrigation and hypersensitivity. Application of sealant material, instrument sharpening, dental implants and study of occlusion.

DH 119 General and Oral Pathology for Dental Hygienists 2 (2,0,0,0)

The fundamentals of microscopic and gross pathology disease, repair, healing and regression. Special emphasis: diseases, developmental disturbances, infection, lesions, and injuries to the oral cavity.

DH 122 Nutritional Aspects in Dentistry 2 (2,0,0,0)

Introduction to principles of basic biochemistry and the relationship of nutrition to oral health. Application of nutritional education to dental hygiene practice: provide nutritional assessment.

DH 202 Pharmacology 2 (2,0,0,0)

A study of drugs by groups with special emphasis on those used in dentistry including their physical and chemical properties, dosage and therapeutic effects.

DH 203 Special Patients 2 (2,0,0,0)

Considerations in the treatment of patients with specific physical and mental challenges with a special emphasis on the management of the geriatric patient.

DH 208 Community Dental Health I 2 (2,0,0,0)

Functions of health care agencies, literature, epidemiology of dental diseases, community preventive measures, program planning, the geriatric population and dental health educational methods.

DH 209 Pain and Anxiety Control 3 (2,0,3,0)

Administration of local anesthetics and nitrous oxide/oxygen analgesia. Pharmacological agents, physical and emotional evaluation of patients, anatomy and neurophysiology. Management of related medical emergencies.

DH 210 Clinical Dental Hygiene II 4 (0,0,14,2)

Clinical application of diagnostic, preventive, and therapeutic procedures utilized in patient care by a dental hygienist. Prerequisite: DH 115.

DH 211 Dental Materials and Techniques for Dental Hygienists 2 (1,3,0,0)

Study of dental materials including physical and chemical properties, manipulation, utilization, and application in dental and dental hygiene procedures.

DH 212 Periodontic Principles II 2 (2,0,0,0)

Fundamental principles of periodontics, etiology, histopathology, classification of gingival and periodontal diseases, prevention and non-surgical treatment.

DH 216 Principles of Dental Practice 1 (1,0,0,0)

Concepts of dental office management, productivity, marketing, interviewing and responsibilities of professionals.

DH 217 Periodontics III 1 (1,0,0,0)

Advanced study of periodontology with special emphasis on new surgical modalities and equipment. Orientation to all aspects of periodontal practice.

DH 219 Community Dental Health Field Experience 1 (0,0,4,0)

Prepares student to function as an effective oral health educator, practitioner, and resource person in public health settings. Prerequisite: DH 208.

DH 220 Clinical Dental Hygiene III 4 (0,0,14,2)

A continuation of Clinical Dental Hygiene II. Prerequisite: DH 210.

DH 296 Board Review 1 (1,0,0,0)

Covers a review of topics in preparation for the Dental Hygiene National Board Examination.

DH 297B Pain Management for the Dental Professional 3 (1,0,6,0)

Administration of local anesthetics and nitrous oxide analgesia. Pharmacologics, patient evaluation, anatomy and neurophysiology, management of medical emergencies. Prerequisite: Program Director permission.

DH 298B Dental Hygiene Career Skills 2 (1,0,3,0)

Review of essential dental hygiene skills for clinical examination preparation or re-entry into the dental hygiene profession. Graded Pass/Fail only. Prerequisite: Program Director permission.

DH 299B Independent Study 1-5 (1-5,0,0,0)

Covers selected topics of interest to dental hygiene students including review for Dental Hygiene National Board Examination. Graded Pass/Fail only. Prerequisite: Instructor permission and department chair.

DH 400 Group Dynamics and Human Relationships 3 (3,0,0,0)

Emphasis on interpersonal, intrapersonal, and group relationships. Students will develop skills in communication, leadership, and team building. Prerequisite: Admission to Dental Hygiene Bachelor of Science Program.

DH 402 Public Health and Special Populations 2 (2,0,0,0)

Historical and evolutionary concepts of public health. Exploration of social responsibility and population characteristics. A basic knowledge of working with special populations in Public Health. Prerequisite: Admission to Dental Hygiene Bachelor of Science Program.

DH 404 Research Methodology 2 (2,0,0,0)

Fundamental and working knowledge of the scientific method employed in oral health research. Critical analysis of research. Utilization of scientific research and supporting evidence-based publications. Prerequisite: Admission to Dental Hygiene Bachelor of Science Program.

DH 406 Health Care Administration 2 (2,0,0,0)

Introduction to health administration, evaluation of settings, and interventions. Emphasis on dental care in the United States and government policies that affect these areas. Prerequisite: Admission to Dental Hygiene Bachelor of Science Program.

DH 408 Teaching Concepts for the Oral Health Professional 2 (2,0,0,0)

Introduction to the basic concepts of teaching. Includes teaching philosophies and methodologies. Emphasis on units of learning, learning objectives, and lesson plans. Prerequisite: Admission to Dental Hygiene Bachelor of Science Program.

DH 410 Cross Cultural Communication in Health Care 3 (3,0,0,0)

Assists students with understanding of multi-cultural differences by integrating various cultural beliefs and attitudes with language skills. Prerequisite: Admission to Dental Hygiene Bachelor of Science Program.

DH 412 Dental Public Health Administration 2 (2,0,0,0)

Foundational concepts of leadership skills as applied to oral health programs, program management, legal, financial and ethical considerations. Communication with the grant writing process is presented. Prerequisites: DH 402, and 404 and admission to Dental Hygiene Bachelor of Science Program.

DH 418 Advanced Education Concepts 2 (2,0,0,0)
 Emphasis will be placed on curriculum planning and implementation. New classroom technology will be emphasized. Prerequisites: DH 408 and admission to the Dental Hygiene Bachelor of Science Program.

DH 422 Oral Epidemiology and Biostatistics 2 (2,0,0,0)
 Principles and methods of epidemiologic investigation and the use of classical statistical approaches to describe the oral health of populations. Prerequisites: DH 402 or consent of instructor and admission to Dental Hygiene Bachelor of Science Program.

DH 428 Clinical/Laboratory Teaching 2 (1,0,0,4)
 Provides students with knowledge and skills in clinical instruction. Psychomotor skill development, analysis and remediation of performance problems. Includes seminar and student teaching externship. Drug test required for externship. Prerequisites: DH 418 and admission to Dental Hygiene Bachelor of Science Program.

DH 440 Capstone Seminar I 2 (2,0,0,0)
 Provides opportunity to develop an action plan to solve a problem or meet the needs within one of the respective professional tracks. Prerequisites: Completion of all DH core courses and admission to the Dental Hygiene Bachelor of Science Program.

DH 442 Capstone Seminar II 2 (2,0,0,0)
 Provides opportunity to implement action plan developed within one of the professional tracks. Final Course in BSDH Program. Prerequisites: DH 440 and admission to Dental Hygiene Bachelor of Science Program.

Diesel Technology

DT 104 Diesel Equipment Service 4 (1,6,0,0)
 Preventive maintenance procedures of the major components of heavy equipment, use of hand and power tools service manuals, precision measurement, and equipment out of service standards.

DT 115 Diesel/Heavy Equipment Electrical Systems 4 (1,6,0,0)
 This course introduces electrical systems on modern trucks and construction equipment. Theory of electricity and electronics, types of electrical circuits, wiring, components and use of test equipment are covered as well as diagnostics of batteries, starting and charging systems. Prerequisite: DT 104.

DT 117 Advanced Diesel/Heavy Equipment Electronics 4 (1,6,0,0)
 Advanced troubleshooting of AC and DC, electronic circuits, on board computers, electronically controlled components including convenience accessories and hydraulic controls. This course prepares the student for the ASE T6 certification exam. Prerequisite: DT 115 or instructor approval.

DT 136 Diesel Engine Repair I 4 (1,6,0,0)
 Students develop basic knowledge of design, construction and operating principles of diesel engines. This course emphasizes service, maintenance, diagnosis and repair of internal engine components including lubrication and cooling systems. Prerequisite: DT 104.

DT 138 Diesel Engine Repair II 4 (1,6,0,0)
 Students study components, maintenance, diagnostics and repair of modern diesel engines with a specific focus on intake, fuel delivery, and exhaust systems. This course prepares the student for the ASE T2 certification exam. Prerequisite: DT 136 or instructor approval.

DT 145 Diesel Brake Systems 4 (1,6,0,0)
 This course provides students with knowledge of medium and heavy duty hydraulic and airbrake systems including study in components, maintenance, diagnostics, and repair. This course prepares the student for the ASE T4 certification exam. Prerequisite: DT 115.

DT 155 Steering, Suspension and Hydraulic Directional Controls 4 (1,6,0,0)
 Prepares the student with the knowledge and skills needed to adjust, diagnose, service and repair mechanical and hydraulic directional control, as well as suspension systems found on trucks and construction equipment. This course prepares the student for the ASE T5 certification exam. Prerequisite: DT 104.

DT 165 Diesel/Heavy Equipment Heating, Air Conditioning 4 (1,6,0,0)
 This course covers theory, diagnostics, maintenance and service of air conditioning equipment found on truck cabs and off-road equipment. Emphasis is placed on diagnosis of various refrigerant systems while demonstrating knowledge and practice of EPA compliance requirements. Prerequisite: DT 115.

DT 205 Diesel/Heavy Equipment Drive Train and Axles 4 (1,6,0,0)
 This course includes the study of heavy truck chassis heavy duty transmissions, drivelines, power dividers, differentials as well as torque converters, torque dividers, power shift transmissions, planetary and gear final drives, tracks, rollers and idlers. Emphasis is placed on troubleshooting and service procedures required. Prerequisite: DT 104.

DT 295 Internship Co-Op I 2 (0,0,0,10)

Cooperative education course, designed to provide the student with on-the-job supervised and educationally directed work experience. Each course except DT 295 will have a prerequisite of successful completion of the preceding Work Experience course.

DT 296 Internship Co-Op II 2 (0,0,0,10)

Cooperative education course, designed to provide the student with on-the-job supervised and educationally directed work experience. Each course except DT 295 will have a prerequisite of successful completion of the preceding Work Experience course.

DT 297 Internship Co-Op III 2 (0,0,0,10)

Cooperative education course, designed to provide the student with on-the-job supervised and educationally directed work experience. Each course except DT 295 will have a prerequisite of successful completion of the preceding Work Experience course.

Early Childhood Education

ECE 121 Parent Caregiver Relationships 1 (1,0,0,0)

A course designed for Early Childhood students in which they can acquire various communications skills to enhance parent/caregiver relationships.

ECE 122 Observation Skills 1 (1,0,0,0)

A course designed to expose parents and teachers to various formal and informal observation methods that will enhance their observation and recording skills.

ECE 123 Health and Nutrition for Young Children 1 (1,0,0,0)

Study includes nutrition, health safety, infectious disease, first aid, and preventative measures for accidents and spread of diseases.

ECE 127 Role of Play for Infants and Toddlers 1 (1,0,0,0)

Emphasis on techniques and play materials for use in the home and child care setting which will foster the child's total development from birth to 2 1/2 years.

ECE 130 Infancy 3 (3,0,0,0)

Study of social, emotional, language and sensorimotor development in infancy. Emphasis placed on skills and facilitating optimum infant development.

ECE 134 Guiding Infant/Toddlers 1 (1,0,0,0)

A guidance course based on knowledge of developmental levels coupled with realistic expectations for behavior. Emphasis on positive teaching and parenting approaches.

ECE 138 Step Families 1 (1,0,0,0)

A course for parents and teachers focusing on the unique dynamics of step families, and the special issues of adults and children living in them.

ECE 151 Math in the Preschool Curriculum 1 (1,0,0,0)

A study of mathematical development in young children. Emphasis on teaching techniques, materials and activities for supporting math development.

ECE 152 Science in the Preschool Curriculum 1 (1,0,0,0)

Study of young child's emerging awareness of the biological and physical environment. Emphasis on supportive teaching techniques, materials and activities.

ECE 153 Language Development in the Preschool 1 (1,0,0,0)

Study of the development of language in preschool children. Exposure to activities and materials for fostering development of receptive and expressive language skills in the preschool.

ECE 154 Literature for Preschool Children 1 (1,0,0,0)

Brief survey of literature and poetry for use with preschool children. Techniques for integrating literature into the preschool curriculum will be examined.

ECE 155 Literacy and the Young Child 1 (1,0,0,0)

The development of learning activities and materials which augment and enhance the development of literacy skills in the young child.

ECE 156 Music in the Preschool Curriculum 1 (1,0,0,0)

Teaching techniques and music activities for young children. Focus on listening, singing, rhythm and creative movement.

ECE 157 Art in the Preschool Curriculum 1 (1,0,0,0)

A study of artistic/creative development. Emphasis on teaching techniques for supporting and enhancing artistic/creative development using a range of materials and activities.

ECE 158 Activities for Physical Development in Young Children 1 (1,0,0,0)

A study of teaching techniques, materials and activities for supporting and enhancing gross motor development with a focus on both patterned and creative movement.

ECE 159 After School Activities 1 (1,0,0,0)

Developing curriculum for the school-aged child in after school programs. Emphasis on appropriate teaching techniques, materials, activities and nutritious snacks.

ECE 162 Teaching the Two-Year-Old 1 (1,0,0,0)

Study of the physical, cognitive, and social-emotional characteristics of two year old children. Emphasis on choosing learning materials and equipment and on planning appropriate activities for two year olds in music, art, physical education, math, science, language development, literature, and reading readiness.

ECE 163 The School Age Child 3 (3,0,0,0)

Study of the social, emotional, physical and cognitive development of the child from 6-12 years with emphasis on facilitation of optimum development.

ECE 200 The Exceptional Child 3 (3,0,0,0)

A survey of the characteristics and requirements of children with special needs. Focus on the various exceptionalities, legislation affecting persons with special needs, and the impact of special needs upon the family and the individual.

ECE 202 Understanding Human Growth and Development 3 (3,0,0,0)

The class will provide a comprehensive introduction to the principles and basic concepts of child development. The course integrates the dimensions of physical, cognitive and psychosocial development into each major state of the child's life – prenatal, infancy, preschool years, middle childhood and adolescence.

ECE 204 Principles of Child Guidance 3 (3,0,0,0)

A focus on support and enhancement of the child's social/emotional development, social skills, and self-esteem through the use of positive guidance.

ECE 231 Preschool Practicum 3-4 (0,0,0,9-12)

A student teaching experience either on or off campus. Instructor approval required. Must be concurrently enrolled in ECE 245 Practicum Seminar.

ECE 232 Practicum: Infant and Toddler 3-4 (0-1,0,0,6-12)

A student teaching experience in an infant/toddler setting either on or off campus. Concurrent enrollment in ECE 245 MAY be required. Instructor approval.

ECE 233 Practicum in Early Childhood Special Education 3 (0,0,0,9)

A practical course focusing on the development of techniques, strategies and adaptations needed to implement the inclusion of pre-school children with special needs.

ECE 235 Adapting Curricula for Young Children with Special Needs 3 (3,0,0,0)

Course focuses on adapting typical early childhood curricula to meet the needs of infants, toddlers and preschoolers with special needs. Prerequisites: ECE 200, and 251, or ECE 252.

ECE 238 Family and Community Relations 1 (1,0,0,0)

Requires participation in the Community College Early Childhood Education Lab. Class, conferences, discussion and community resources studied and applied to home and school needs. May repeat course once.

ECE 240 Administration of the Preschool 3 (3,0,0,0)

Principles and practices of preschool organization and administration; organizational structure, budgeting, personnel policies, record keeping, licensing regulations, safety, nutrition, and health issues.

ECE 241 Practicum for Teacher Aides 4 (0,0,0,16)

A teaching experience as an aide in an elementary classroom. Corequisites: ECE 245 and department approval.

ECE 245 Practicum Seminar 2 (2,0,0,0)

A required seminar for students concurrently enrolled in ECE 231, or 241. Instructor approval.

ECE 250 Introduction to Early Childhood Education 3 (3,0,0,0)

An introduction to early childhood education. A course which deals with the total program: types, objectives, philosophy, curriculum, physical plant and equipment as these aspects relate to needs and interests of adults and children involved in early childhood field.

ECE 251 Curriculum in Early Childhood Education 3 (3,0,0,0)

Study of curriculum models; developmental learning theories; and curriculum planning and implementation in early childhood programs. Prerequisite: ECE 250.

ECE 252 Infant/Toddler Curriculum 3 (3,0,0,0)

Planning and implementing a curriculum for children age 0-2 1/2 years emphasizing physical, emotional, social and cognitive development through daily routines and planned activities.

ECE 254 Applied Child Guidance 3 (3,0,0,0)

A course focusing on the practical application of positive guidance methods and the concept of family systems. Prerequisite: ECE 204.

ECE 260 Children's Literature 3 (3,0,0,0)

Survey of children's literature and poetry for teachers and parents. Emphasis on developing literacy and strategies for integrating children's literature into school and home environments.

ECE 273 Individual Child and Community 3 (3,0,0,0)

Study of the impact growing up in a changing world has on the development of children. Emphasis on the process of socialization.

ECE 274 Individual Child and Family 3 (3,0,0,0)

Study of the family as a system and the way it evolves and nurtures the child.

ECE 285 Current Issues in Infancy 2 (2,0,0,0)

Study of the current trends and issues in infancy and their impact on working with infants.

Economics

ECON 100 Introduction to Economics 3 (3,0,0,0)

This course is intended for students with no prior background in business or economics. It is study of basic macroeconomics, microeconomics, and international economics principles, as well as current global economic and social issues. The course introduces the student to basic economic concepts and applications emphasizing the economic way of thinking. The student will, therefore, relate principles such as scarcity, opportunity cost, and cost-benefit analyses to everyday real world economic situations.

ECON 102 Principles of Microeconomics 3 (3,0,0,0)

An examination of the price theory for product market models and consumer demand models with attention focused on the application of price theory in current economic issues. Prerequisite: MATH 124.

ECON 103 Principles of Macroeconomics 3 (3,0,0,0)

A study of the determination of levels of national income, employment, prices and basic causes of fluctuation of these levels. Prerequisite: MATH 124.

ECON 180 The Economics of Discrimination 3 (3,0,0,0)

The Discrimination of Economics investigates the economic causes, effects, and remedies of discrimination based on categories such as age, ethnicity, gender, religion, national origin, or sexuality. (Same as WMST 180.)

ECON 261 Principles of Statistics I 3 (3,0,0,0)

Introduction to descriptive statistics, probability and expectations, theoretical distributions, hypothesis testing and regression analysis. The emphasis is on use, application, and interpretation of statistical techniques. Prerequisite: MATH 124.

ECON 262 Principles of Statistics II 3 (3,0,0,0)

Advanced statistical techniques, including multiple regression, the classical time series model, analysis of variance and non-parametric statistics. Prerequisite: ECON 261 or instructor permission.

ECON 274 Investment Economics 3 (3,0,0,0)

This course will explore the basic scientific paradigms and applications to micro-finance and investing. Topics will include individual securities, equity, fixed income, governments, global issues, bond funds, limited partnerships, options, futures, monetary market systems, real estate investing, microbanking, precious metals, antiques and collectables, micro-financial planning and many others.

ECON 275 Risk Management Economics 3 (3,0,0,0)

This is a course of study in the theory and practice of risk management and insurance economics. Topics include risk management typology and Cyber risk models/applications, wealth creation and conversation, estate planning science, life insurance market, health risk management, senior risk management, basic insurance ethics, federal and state insurance laws and codes and many others.

ECON 276 Internship in Financial Economics 3 (1,0,0,8)

Interactive participation with numerous financial institutions in applying practical financial and investment tools and policies toward the completion of a research financial and investment project.

ECON 295 Special Topics in Economics 1-3 (1-3,0,0,0)

Topics of current interest in applied economics and finance. This develops awareness of and appreciation for applied economics. May be repeated for a maximum of six credits.

ECON 320 Economics of Health and Health Care 3 (3,0,0,0)

Economics of health care sector including physician, allied health professional, hospital and insurance markets. Emphasis on the role of government, private sector, information and externalities in health care outcomes. Prerequisites: ECON 102 or consent of the instructor and Admission to Dental Hygiene Bachelor of Science Degree Program.

Education

EDU 201 Introduction to Elementary Education 3 (3,0,0,0)

Introductory course in teacher education that examines the role of the elementary school teacher in today's society; historical, philosophical, cultural, and social domains are investigated. Strategies for effective interpersonal communication are explored. Foundations for the practice of teaching are explored and practiced at an introductory level. Observation in a local elementary school is required.

EDU 202 Introduction to Secondary Education 3 (3,0,0,0)

Introduction to the historical and philosophical foundations, settings, problems, and issues related to contemporary secondary schooling and its complexities. Current issues and educational foundations (multicultural, social, and psychological) emphasized. Observation in a classroom is required.

EDU 203 Introduction to Special Education 3 (3,0,0,0)

This course provides an overview of special education. Focus is on characteristics of learners with disabilities and on the historical, social and legal foundations of special education. The course is designed for undergraduate students in special education, general education, nursing, counseling, psychology and related fields. Observation in a classroom is required.

EDU 207 Exploration of Children's Literature 3 (3,0,0,0)

Survey of children's literature genres. Censorship, historical background, children's interests, literature programs and book evaluation.

EDU 210 Nevada School Law 2 (2,0,0,0)

This course is designed to acquaint prospective teachers with the legal aspects of the school setting.

EDU 214 Preparing Teachers to Use Technology 3 (3,0,0,0)

Overview of uses of computers in education, including the use of the computer as a teacher utility, the use of application programs, and the selection and use of educational software.

EDU 215 Substitute Teaching Essentials: Introduction 1 (1,0,0,0)

This course is designed to encourage students to consider substitute teaching. Focus will be on interviewing, first aid and CPR, communication, and code of ethics.

EDU 216 Substitute Teaching Essentials: Preparation and Planning 1 (1,0,0,0)

This course prepares the novice substitute teacher to become successful at planning, organizing and using skills and strategies that affect the classroom daily routine.

EDU 217 Substitute Teaching Essentials: School Procedures 1 (1,0,0,0)

This course is designed to give substitute teachers an insight on the best practices of the school environment and how to prepare and handle policies and procedures during the daily routine.

EDU 220 Principles of Educational Psychology 4 (4,0,0,0)

The psychology of learning, motivation, growth and development, personality, dynamics, and social adjustment. Prerequisite: 33 total credits.

EDU 240 Introduction to Classroom Management 3 (3,0,0,0)

This course will provide an introduction to classroom management theories and techniques: building a classroom management system, producing responsible behavior, and maintaining positive classroom management.

EDU 270 Internet Research in Education 3 (3,0,0,0)

This course is designed to help students learn more about information resources available when conducting research in the field of education and other subjects; identifying and mastering appropriate Internet research tools (search engines, directories, databases, digital libraries, e-journals, bibliographies, encyclopedias); developing research strategies, and critically evaluating Internet information.

EDU 280 Valuing Cultural Diversity 3 (3,0,0,0)

Introduces preservice educators to microcultures which may include class, ethnicity, gender, exceptionalities, religion, language, and age. Culturally appropriate pedagogical practices, dimensions of multicultural education and educational implications of diversity emphasized.

EDU 295 Special Topics in Education 1-6 (1-6,0,0,0)

This course will provide content benefitting preservice teachers in preparation for the classroom and a career in education.

EDU 298 Introduction to Gifted Education 3 (3,0,0,0)

Study of educational programs for gifted children, including identification, characteristics, history, philosophy and programming options. Investigations on research, creativity, intelligence and special populations will also be covered.

EDU 299 Education Portfolio 1 (1,0,0,0)

Students will compile a final portfolio of artifacts from their CSN education coursework for use in education department program assessment and for supporting students in applying for undergraduate teacher education program and/or for future employment. The Education portfolio serves as the capstone for the CSN Elementary, Secondary, Special Education, and Early Childhood Education Emphasis AA Degrees. Prerequisite: Instructor permission.

Electrical Engineering

EE 190 Electrical and Computer Engineering Freshman Design 1 (0,3,0,0)

This course is an introduction to history and overview, as well as design principle in electrical and computer engineering. It covers a) working safety, professional ethics lectured by guest engineers from local industries, b) various branches of electrical and computer engineering lectures lectured by various professors, c) construction and test of various electrical circuits and computer system.

EE 220 Circuits I 3 (3,0,0,0)

This course is an introduction to linear circuit analysis. It covers Kirchhoff's laws, node and loop analysis, Thevenin, Norton, and other circuit network theorems, operational amplifiers, first order RL and RC circuits, second order RLC circuits. Corequisite: EE 220L.

EE 220L Circuits I Discussion and Laboratory 1 (0,3,0,0)

This discussion and laboratory course covers: 1) Introduction to PSpice, a simulation tool for electrical circuits, problem solving using PSpice, 2) Multisim, schematic capture/simulation software, problem solving using Multisim, 3) Test equipment including power suppliers, multimeters, function generator, and oscilloscopes. Prerequisites: EE 190 and MATH 182.

EE 221 Circuits II 3 (3,0,0,0)

EE 221 is the second semester of a one-year course to study electrical circuits. It covers a) sinusoidal steady state analysis by using phasors, sinusoidal steady state power; b) the Laplace transform and its applications to circuit analysis and network function; c) magnetically coupled circuits and transformers; d) circuit analysis in s-domain, and frequency response. Prerequisite: EE 220.

EE 221L Circuits II Laboratory 1 (0,3,0,0)

This laboratory course covers operation of general and special purpose electrical test equipment in AC circuit. Students will design, build, and test 1) RL, DC and RLC circuits, 2) Transformer circuits to measure AC power, 3) Frequency response circuits. Computer simulation software PSpice and Multisim will also be used in this course. Corequisite: EE 221.

Engineering

EGG 125B Civil-Survey Design 3 (2,2,0,0)

Advanced subdivision, street and utility horizontal design and computations; basic map preparation; methods and procedures for construction surveying of civil-designed improvements.

EGG 131 Technical Physics I 4 (3,3,0,0)

This course is designed for students in technical areas to study physics. Numerical calculations are intensive. This is the first semester of a one-year course. It covers equilibrium, motion, dynamics, wave and fluid mechanics. Prerequisites: MATH 111B, 116 or above (except MATH 122, 123).

EGG 132 Technical Physics II 4 (3,3,0,0)

Continuation of EGG 131. Covers thermodynamics, electricity, magnetism, basic AC/DC circuits, solid state physics, optics, and an introduction to modern physics. Prerequisite: EGG 131.

EGG 206 Engineering Mechanics I 3 (3,0,0,0)

Engineering analysis of concentrated and distributed force systems at equilibrium. Prerequisites: MATH 181, DFT 207, or instructor approval.

Emergency Management Administration

EMA 101 Principles of Emergency Management 3 (3,0,0,0)

This course introduces students to the fundamental aspects of emergency management. Students will learn the principles of emergency management and be able to work with the main emergency management issues. The course also describes how various emergency management services work together in a system of resources and capabilities.

EMA 102 Disaster Mitigation and Preparedness 3 (3,0,0,0)

This course is designed to introduce students to the process and practice of emergency planning. The course covers a range of strategies and skills that planners require to achieve a successful planning process for dealing with disasters in future time, and those that must be considered when planning for implementing the emergency plan at the time of disaster impact. Prerequisite: CRJ 108 or EMA 101.

EMA 120 Emergency Operations Centers 3 (3,0,0,0)

This course provides information on how to determine the best location for an emergency operations center (EOC), and describes the factors that should be considered in choosing its physical design. It describes the most prevalent approaches to EOC functions and the reasons for using them in organizing an EOC. The course also stresses the importance of standard operating procedures (SOPs) in EOC operations, and the requirements for conducting exercises and evaluations of the EOC. Prerequisite: CRJ 108 or EMA 101.

EMA 130 Role and Scope of the Public Information Officer 3 (3,0,0,0)

This course provides students with the basic skills needed to perform public information duties as they relate to emergency management. It focuses on the definition of the job of the public information officer (PIO) as well as the skills needed for that position. The course also covers the Joint Information System element of the National Incident Management System. Prerequisites: CRJ 108 or EMA 101 and COM 101.

EMA 140 Disaster Response and Recovery 3 (3,0,0,0)

This course introduces the basic concepts of disaster response and recovery. Concepts include the roles and responsibilities of emergency management stakeholders. Describes how roles and responsibilities differ in response versus recovery. Prerequisite: CRJ 108 or EMA 101.

EMA 220 Emergency Simulations and Exercises 3 (3,0,0,0)

This course provides students with the knowledge and skills to develop and conduct disaster exercises that can be used to test emergency operations plans and operational response capabilities of organizations, businesses and communities. The course also addresses and satisfies the National Exercise and Evaluation Program criteria. Prerequisite: CRJ 108 or EMA 101.

EMA 230 Incident Command System (ICS) and National Incident Management System (NIMS) 3 (3,0,0,0)

The Incident Command System (ICS) National Training Curriculum covers introductory (overview, orientation and basics), intermediate and advanced elements of the National Incident Management System (NIMS). This course provides ICS management tools for all levels of users. Prerequisite: CRJ 108 or EMA 101.

EMA 250 Terrorism Response Planning 3 (3,0,0,0)

This course identifies policies and procedures for the emergency management administrator and staff. It evaluates Emergency Operations Plans (EOPs) as well as other government entities. The EMA manager will learn about hard and soft targets in his/her jurisdiction. Prerequisite: CRJ 108 or EMA 101.

Emergency Medical Services

EMS 108B Emergency Medical Technician Training 8 (7,3.5,0,0)

Basic emergency medical training in trauma and medical patient assessment, airway management, fracture and wound care, basic pharmacology and semiautomatic external defibrillation. Course satisfies local fire department testing prerequisite. Healthcare Provider CPR card, current immunizations, background check, drug screen and health insurance required. Corequisites: EMS 108L and EMS 150B.

EMS 109B Basic EMT Refresher 2 (1.5,1,0,0)

A 40-hour refresher course to update the skills of the Basic EMT. Required every two years for the Basic EMT in order to keep certification current. Review of the skills taught in basic course, new skills and new information that has become part of the EMS curriculum. Prerequisites: EMS 108B and/or current certification within the last two years as a Basic EMT.

EMS 110B Secondary EMS Instructor 2 (2,0,0,0)

A 24-hour course for experienced providers that presents introductory concepts, resources, and skills to effectively deliver quality EMS education. Includes essential instructor knowledge, such as: psychology of learning, classroom management, legal issues, and evaluation practices. Prerequisites: Currently certified as an AEMT or Paramedic with at least two (2) years of full-time or five (5) years of volunteer/part time EMS experience, or consent of EMS Program Director.

EMS 112B Primary EMS Instructor 1 (1,0,0,0)

A 16-hour course for experienced instructors that provides the fundamental knowledge essential to being a Primary EMS Instructor. Content will focus on the educational processes, and learning theories and practice. It will provide practical experience in teaching strategies and facilitation techniques. Approaches to assessment and evaluation using observation, practice and reflection are presented. Prerequisite: Currently certified as a Secondary EMS Instructor at any provider level, or consent of EMS Program Director.

EMS 115B Advanced Emergency Medical Technician 7 (6,3,0,0)

Instructs in the roles and responsibilities for the Advanced EMT. Skills include, but are not limited to patient assessment skills, intravenous therapy, advanced airway management, basic electrophysiology, radio communications, and pharmacology for the Advanced EMT. Current certification as an EMT, current immunizations, background check, drug screen and health insurance required. Corequisites: EMS 115L, and EMS 116B.

EMS 116B AEMT Clinical Practice 1 (0,0,7,0)

Field training for the Advanced EMT student. Will involve in-hospital rotations, field ambulance training, and community service. Corequisite: EMS 115B. Prerequisites: Current certification as an EMT, current immunizations, background check, drug screen and health insurance required.

EMS 117B Clinical Practicum 1 (0,0,4,0)

Supervised application of EMT Intermediate skills in the field and/or hospital setting. Emphasis will be on patient assessment, EKG interpretation, pharmacology applications, advanced and basic airway management. Prerequisites: Current enrollment or acceptance in the CSN Paramedic program. Current certification as an Intermediate EMT, current immunizations, health insurance required.

EMS 125B Pharmacology for Paramedics 3 (3,0,0,0)

A fundamental course in pharmacology for the prehospital health provider. Areas of emphasis are the pharmacodynamics and pharmacokinetics of drug therapy, roles and responsibilities of drug administration and dosage calculations. Covers common drug classifications found in the prehospital setting. Prerequisite: Current enrollment in CSN Paramedic training.

EMS 127B Paramedic Clinical Practice I 2 (0,0,16,0)

Supervised application in a hospital and prehospital setting of the skills learned in aggregate Paramedic Training. Emphasis will be on patient assessment, recognition and management of medical and trauma emergencies. Grading to be on a Pass/Fail basis. Prerequisite: Current enrollment in CSN Paramedic Training.

EMS 129B Paramedic Fundamentals 3 (2,3,0,0)

Basic aspects of patient assessment, airway management, communications, medical and legal considerations, and the moral and ethical aspects of pre-hospital emergency care. Prerequisite: Current enrollment in CSN Paramedic training.

EMS 130B Paramedic Assessment I 1 (0,3,0,0)

This course will develop introductory patient assessment and history taking skills necessary for further progression through the Paramedic program. Students shall build upon previously learned skills acquired within the EMT and/or AEMT coursework, while implementing ECG monitoring and pharmacological interventions as learned in other classes. Prerequisite: Current enrollment in CSN Paramedic Program.

EMS 145B Essentials of Paramedic Medicine 3 (3,0,0,0)

Course will allow the participant to apply the information gained from previous course work. Basic aspects of EMS systems, patient assessment skills, documentation, advanced airway procedures, and special circumstances such as assault and abuse, bioterrorism, and crime scene awareness will be addressed. This course will be tailored to advancing the students' understanding of these subjects through both lecture and hands-on practice. Prerequisite: Current enrollment in CSN paramedic program.

EMS 150B EMT Clinical Practice 1 (0,0,6,0)

This course places the EMT in the skill performance clinical arena. Areas of emphasis are to include, but are not limited to: Community Service Projects, Pre-Hospital EMS Ride-a-longs, Labor and Delivery rotations, In-hospital Emergency Department rotations, and Psychiatric observation rotations. Corequisite: EMS 108B and EMS 150B must be taken currently.

EMS 165B Pathophysiology for Paramedics 3 (3,0,0,0)

A correlative approach to pathophysiology employing both physical assessment skills and a basic cellular understanding to the various disease entities and trauma processes. Prerequisite: Current enrollment in CSN Paramedic Training.

EMS 166B Paramedic Technology 4 (3,3,0,0)

Instructs in the recognition and management of medical and traumatic emergencies, which includes advanced airway management, advanced invasive procedures, medication administration and electrical therapy modalities. Prerequisite: Current enrollment in CSN Paramedic Training.

EMS 167B Paramedic Clinical Practice II 2 (0,0,16,0)

Supervised application in a hospital and prehospital setting of the skills learned in aggregate Paramedic Training. Emphasis will be on patient assessment, recognition and management of medical and trauma emergencies. Grading to be on a Pass/Fail basis. Prerequisite: Current enrollment in CSN Paramedic Training.

EMS 168B Electrophysiology/ Electrocardiography 3 (3,0,0,0)

Instructs in the anatomy and physiology of the conduction system of the heart, the electrical system and electrocardiography, abnormal EKG patterns and the recognition and management of dangerous or life-threatening dysrhythmias. Includes an introduction to 12-lead ECG interpretation. Prerequisite: Current enrollment in CSN Paramedic Training.

EMS 169B Advanced Cardiac Life Support (ACLS) 1 (0.75,0.5,0,0)

Instructs in the most current standards of the American Heart Association for ACLS. Class is offered in seminar format over two days. Prerequisites: Admission to CSN Paramedic Training or permission, current AHA healthcare provider CPR card.

EMS 171B Prehospital Trauma Life Support (PHTLS) 1 (0.75,0.5,0,0)

Instructs in the assessment and management of the critical trauma patient according to national PHTLS format. Course is ALS in format, but may be suitable for very experienced Intermediate level providers. Class is offered in seminar format over two days. Prerequisite: Enrollment in CSN Paramedic Training or department approval.

EMS 172B Vehicle Extrication for Paramedics 2 (1.75,0.5,0,0)

Vehicle extrication operations level is a participative course designed for pre-hospital care providers in NFPA 1670. Enhances and incorporates new knowledge and skills necessary to access, extricate, and care for victims of crash incidents. Provides knowledge in scene management and familiarization with local resources needed to mitigate incidents. Provides knowledge for competence at hazardous materials awareness level. Includes National Fire Academy ICS for EMS training. Prerequisite: Enrollment in CSN Paramedic training.

EMS 173B Paramedic Field Internship 3 (0,0,0,24-32)

Field internship allowing students to practice and apply advanced life support knowledge and skills. Each student will be a third person on a Paramedic rescue unit and will work directly with a Paramedic preceptor. Grading to be on a Pass/Fail basis. Prerequisites: Completion of CSN Paramedic training to date, local provisional Paramedic Certificate, and six months of 911 transport experience.

EMS 174B EMT Paramedic Refresher 4 (3,2,0,0)

An 80-hour refresher course to update the skills of the EMT Paramedic. Required every two years for the EMT Paramedic in order to keep certification current. Review of the skills taught in basic and intermediate courses, new skills and new information that have become part of the program. Prerequisite: Current certification as an EMT Paramedic within the last two years.

EMS 176B Pediatrics for Paramedics 4 (3,3,0,0)

Instructs in a comprehensive approach to the pediatric patient from birth to adolescence. Course will include AHA-Pediatric Advanced Life Support Curriculum (PALS). Prerequisite: Current enrollment in CSN Paramedic training.

EMS 180B Intermediate EMT Refresher 3 (2.5,1,0,0)

A 60-hour refresher course to update the skills of the Intermediate EMT. Required every two years for the Intermediate EMT in order to keep certification current. Review of the skills taught in basic and intermediate courses, new skills and new information that have become part of the program. Prerequisites: EMS 115B and/or current certification within the last two years as an Intermediate EMT.

EMS 185B Advanced Emergency Care 3 (3,0,0,0)

Instructs in the recognition and management of medical and traumatic emergencies, which includes advanced care for hemorrhage and shock, traumatic brain injuries, burns, thoracic and abdominal trauma, allergies and anaphylaxis, toxicology, and hazmat operations. Prerequisite: Current enrollment in CSN paramedic program.

EMS 190B Emergency Medical Dispatch 3 (2,0,4,0)

Designed to perform emergency dispatch using the Emergency Priority Dispatch Systems. Students identify the correct chief complaint or incident type, prioritize response assignments, provide life-sustaining support, handle difficult callers and reduce the potential for life-threatening mistakes.

EMS 201B Operations and Management in EMS 1 (1,0,0,0)

Includes EMS system planning, organizing, directing, quality control, financing, stress management, and interagency communications. Will also address current issues in EMS locally and nationally. Prerequisite: Current EMT Paramedic certification or permission.

EMS 202B Advanced ECG Interpretation 1 (1,0,0,0)

Introduction to 12 lead ECG interpretation. Topics will include intraventricular conduction delays, myocardial ischemia, injury, and infarction. Will also include pre-excitation syndrome, bundle branch blocks, ectopy, and advanced dysrhythmia interpretation. Course may be offered in seminar blocks as necessary. Prerequisite: EMS 168B or current Paramedic certification.

EMS 210B EMS Instructor 4 (3,0,0,3)

An 80-hour program designed for the experienced provider who desires to assist and participate in the EMS education process. Involves learning how to teach adult students the cognitive, psychomotor, and affective domain skills in the EMS classroom. Effective evaluation tools and training in emotional intelligence is also included. Students will participate in a 40-hour mentoring practicum. Prerequisites: One year professional or volunteer EMS experience, demonstrated emotional intelligence and consent of EMS Program Director.

EMS 212B EMS Preceptor Training 2 (0,6,0,0)

A 16-hour training for the experienced provider that will enable them to monitor and evaluate progress of the EMS student. Management, discipline, and the development of an engaging learning environment will be presented. Student, preceptor, and patient emotional intelligence evaluation will be developed. Prerequisites: One year professional or volunteer EMS experience and demonstrated emotional intelligence.

EMS 220B Advanced Paramedic Skills 2 (0,6,0,0)

This course will allow the participant to apply the information gained from Pathophysiology, Electrophysiology, Pharmacology, Paramedic Fundamentals, Paramedic Technology, Pediatrics, ACLS, PHTLS, PALS/PEP, and CPR. All aspects of the EMS system will be addressed. This course will be tailored to advancing the students understanding of all Paramedic subjects through practical skill scenarios. Prerequisite: Current enrollment in CSN Paramedic Program.

EMS 230B Paramedic Assessment II 1 (0,3,0,0)

This course will allow the participant to apply the information gained from Pathophysiology, Electrophysiology, Pharmacology, Paramedic Fundamentals, Paramedic Technology, ACLS, PHTLS and the Pediatric course in a manner that emphasizes proper patient assessment, the development of a proper treatment plan and implementation of that plan. This course will be tailored to advancing the students understanding of all Paramedic subjects through practical skills scenarios in preparation for EMS 173B. Prerequisites: Current enrollment in CSN Paramedic Program, EMS 130B.

English

ENG 092 College Prep English I 5 (5,0,0,0)

Emphasis on college-level reading and writing. Practice in paragraph construction and the introduction to the complete essay. Review of grammar/punctuation skills and sentence structure. Guidance and instruction in integrating reading and writing skills. Prerequisite: Placement Test.

ENG 098 Preparatory Composition 3 (3,0,0,0)

Intensive reading and writing course focusing on college-level critical reading and essay writing strategies. This course was designed for students whose ACT or SAT scores indicate that they would benefit from an additional semester of English before beginning their college-level work. Students who successfully complete ENG 098 with a grade of C- or better will be eligible to enroll in ENG 100, 101, or 113. Prerequisite: C- or better in ENG 092 or Placement Test.

ENG 100 Composition Enhanced 5 (5,0,0,0)

A writing intensive course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing. Students receive extensive background in strategies of planning, drafting, and revising. Research, primary and/or secondary, is introduced as a means by which students can extend their own understanding through the use of outside resources. Additionally, critical reading and thinking strategies are developed. Extra assistance with English writing skills (grammar, sentence structure, usage, and punctuation) is provided. Students who successfully complete ENG 100 with a grade of "C-" or higher will satisfy the ENG 101 requirement and will be eligible to enroll in ENG 102. Prerequisite: English Placement Test or ENG 098 or ESL 139 with a grade of "C-" or higher.

ENG 101 Composition I 3 (3,0,0,0)

English 101 is designed to strengthen college-level writing skills, with particular attention to audience, purpose and rhetorical situation. Students receive extensive background in strategies of planning, drafting and revising. Research is introduced as a means by which students can extend their own understanding through the use of outside resources. Additionally, critical reading and thinking strategies are developed. Students who successfully complete ENG 101 with a grade of "C-" or higher will be eligible to enroll in ENG 102. Prerequisite: English Placement Test or completion of ENG 098 or ESL 139 with a grade of "C-" or higher.

ENG 101H Composition I - Honors 3 (3,0,0,0)

A writing intensive, Honors-level course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing. Limited class size ensures workshop environment and activities including extensive work on planning, drafting and revising. In addition, research techniques for primary and secondary sources are introduced as a means by which students can extend their understanding through outside resources. Critical thinking and reading skills are developed and deepened through oral and written presentations. Prerequisites: Instructor approval or English Placement Test, reflecting placement in ENG 101 and admission to the Honors program.

ENG 102 Composition II 3 (3,0,0,0)

ENG 102 is a continuation and extension of ENG 101 and equivalents with attention to analytical reading and writing, critical thinking, and research methodologies, while emphasizing interpretation, analysis, synthesis, and argument. Prerequisite: C- or higher in ENG 100, 101, 101H, or 113.

ENG 102H Composition II - Honors 3 (3,0,0,0)

An Honors-level version of ENG 102 Composition II, with a more in-depth focus on workshop and research techniques. Class will continue to emphasize rhetorical methodology, while deepening a student's ability to read and write analytically, think critically, and interpret effectively. Prerequisites: C- or higher in ENG 100, 101, 101H, or 113, and admission to the Honors program.

ENG 107 Technical Communications I 3 (3,0,0,0)

Apply the techniques of the professional writing process to real world documents such as e-mails, business correspondence, proposals, reports, and web sites. Prerequisite: Placement into ENG 100, 101, 113 or a "C" or better in ENG 098 or ESL 139.

ENG 113 Composition I for International Students 3 (3,0,0,0)

A writing intensive course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing. Students receive extensive background in strategies of planning, drafting, and revising. Research, primary and/or secondary, is introduced as a means by which students can extend their own understanding through the use of outside resources. Additionally, critical reading and thinking strategies are developed. Students who successfully complete ENG 113 with a grade of C- or better will satisfy the ENG 101 requirement. Prerequisite: English Placement test reflecting placement in ENG 113 or grade of C- or better in ESL 139 or ENG 098.

ENG 114 Composition II for International Students 3 (3,0,0,0)

Continuation and extension of ENG 113 and equivalents with attention to analytical reading and writing, critical thinking, and research methodologies, while emphasizing interpretation, analysis, synthesis and argument. Prerequisite: ENG 100, 101, or 113 with a C- or better.

ENG 181 Vocabulary and Meaning 2 (2,0,0,0)

Problems of meaning, word derivation and word formation are investigated with a view to enlarging and refining a working English vocabulary.

ENG 190 Science Fiction/Fantasy Literature 3 (3,0,0,0)

Reading and discussion of selected novels and short stories, with emphasis on the relationship between futuristic and imaginative concepts, the real world and traditional literature.

ENG 205 Introduction to Creative Writing: Fiction and Poetry 3 (3,0,0,0)

A course designed to give students writing experience, introduce them to marketable types of writing and sharpen their writing to commercially acceptable quality.

ENG 211 Introduction to Linguistics 3 (3,0,0,0)

An introduction to the study of language from the perspective of Modern Linguistics. The class studies the formation of sounds, words, sentences, and meaning; as well as aspects of language variation and acquisition.

ENG 220 Writing Poetry 3 (3,0,0,0)

The study of poetry writing methods and forms with concentration on the student's creative writing. This course can be repeated once. Prerequisite: ENG 205, or instructor approval.

ENG 221 Writing Fiction 3 (3,0,0,0)

A course for learning the craft of fiction writing in a workshop setting with a goal of refining the creative process, implementing critical self-editing, and developing an understanding of the aesthetics of fiction as art. This course can be repeated once for credit. Prerequisite: ENG 205, or instructor approval.

ENG 223 Themes of Literature 3 (3,0,0,0)

Themes and ideas significant in literature. May be repeated for a maximum six credits. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 224B Introduction to Screenwriting 3 (3,0,0,0)

The study of screenwriting methods and forms with a concentration on the student's creative writing.

ENG 230 Writing Creative Non-Fiction 3 (3,0,0,0)

The study of creative non-fiction writing methods and the art of the personal essay with concentration on the student's creative writing. Prerequisite: ENG 205, or instructor approval.

ENG 231 World Literature I 3 (3,0,0,0)

World Literature I explores literature from our earliest texts to c1651. Individual sections will include texts selected from around the world, and incorporate prose, poetry, and drama. Discussing the central themes of the global literary discourse will help students discover how authors have contributed to the literary tradition, recognize the influence of literature on contemporary thought, and form connections across historical, geographical, and cultural boundaries. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 231H World Literature I - Honors 3 (3,0,0,0)

A reading intensive, Honors-level course designed to introduce students to the major figures, movements and ideas in world literature from ancient times to 1650. Prerequisites: Instructor approval or C- or better in ENG 100, 101, 101H, or 113 and admission to the Honors program.

ENG 232 World Literature II 3 (3,0,0,0)

World Literature II explores literature from c1651 to current times. Individual sections will include texts selected from around the world, and incorporate prose, poetry, and drama. Discussing the central themes of the global literary discourse will help students discover how authors have contributed to the literary tradition, recognize the influence of literature on contemporary thought, and form connections across historical, geographical, and cultural boundaries. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 232H World Literature II - Honors 3 (3,0,0,0)

A reading intensive, Honors-level course designed to introduce students to the major figures, movements and ideas in world literature from 1650 to the present. Prerequisites: Instructor approval or C- or better in ENG 100, 101, 101H, or 113 and admission to the Honors program.

ENG 235 Survey of English Literature I 3 (3,0,0,0)

Reading and discussion of major British works and writers from Early English through the 18th Century. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 236 Survey of English Literature II 3 (3,0,0,0)

Reading and discussion of major British works and writers from late 18th Century through modern literature. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 241 Survey of American Literature I 3 (3,0,0,0)

Includes major American works and writers, Colonial Period to the Civil War, with emphasis on both enjoyment and critical appreciation of literature. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 242 Survey of American Literature II 3 (3,0,0,0)

Includes major American works and writers, Civil War to present, with emphasis on both enjoyment and critical appreciation of literature. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 243 Introduction to Short Story 3 (3,0,0,0)

Short stories read and discussed, with special emphasis on analysis and interpretation of plot, character, point of view, theme, symbol and tone. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 252 Introduction to Drama 3 (3,0,0,0)

Reading and discussion of works selected from among the best in Western Culture, including but not restricted to ancient Greek comedy and tragedy, Shakespeare, 18th Century Comedy and 19th Century Expressionism. Critical reviewing of drama, both live and on film, is promoted and encouraged. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 256 Introduction to the Literature of King Arthur 3 (3,0,0,0)

Readings in primary and secondary materials relating to the Arthurian Cycle. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 257 Introduction to Classical Mythology 3 (3,0,0,0)

Readings in primary and secondary materials relating to the Classical Mythology. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 261 Introduction to Poetry 3 (3,0,0,0)

Lectures and discussions about poetry intended to develop the student's ability to read, understand and evaluate a poem. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 265 Nature in Literature 3 (3,0,0,0)

Students will read, analyze, and discuss various literary expressions of our conceptions of nature. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 267 Introduction to Women and Literature 3 (3,0,0,0)

Study of a variety of important women authors. Some semesters, offered as a study of important female characters taken from famous plays and novels. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 268 Introduction to Migrant Literature 3 (3,0,0,0)

Themes and ideas significant in immigrant literature related to voluntary and compulsory migration. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 271 Introduction to Shakespeare 3 (3,0,0,0)

Shakespeare's principal plays read for their social interest and their literary excellence. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 271H Introduction to Shakespeare - Honors 3 (3,0,0,0)

An honors level study of Shakespeare's principal plays read for their social interest and literary excellence. Honors emphasizes an in-depth study of Shakespeare's work focusing on its relevance to modern life. Courses with "H" suffixes are designated honors level courses and can be used to fulfill equivalent general education requirements. Prerequisite: Admission to the Honors program.

ENG 272 Queer Literature 3 (3,0,0,0)

Overview of gay and lesbian literary figures from Western antiquity to present. Instruction explores love and sex between same-sex relationships through a historical and theoretical framework. Emphasis on rereading texts to discover gay and lesbian themes ignored or concealed in more traditional textual analyses.

ENG 273 Comic Books as Literature 3 (3,0,0,0)

This course will examine the power of comic books as they create and manipulate the significance of historical, social, political, and cultural issues within the framework of critical reading and literary analysis. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 275 Contemporary Literature 3 (3,0,0,0)

Reading and discussion of recent literature of various types to acquaint students with contemporary writers. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 278 Readings in the Contemporary Novel 3 (3,0,0,0)

Study of the post-World War II novel, its development, and direction. Prerequisite: Satisfactory completion of ENG 101 or department chair or instructor approval.

ENG 284 Introduction to the Bible as Literature 3 (3,0,0,0)

Readings in primary and secondary materials relating to the Bible as Literature. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 289 Holocaust and Genocide Literature 3 (3,0,0,0)

Focuses on literature of the World War II Holocaust and other previous and subsequent genocidal literature. Reading, discussion of selected works in social, historic, literary, comparative contexts. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 290 Introduction to African-American Literature 3 (3,0,0,0)

Introduction to the poetry, fiction, drama, and non-fiction of African Americans.

ENG 292 Introduction to Chicano Literature 3 (3,0,0,0)

Introduction to Chicano literature through the study of classic and contemporary works of prose, poetry, and theater. Course conducted in English. Prerequisite: Satisfactory completion of ENG 101 or equivalent, or instructor approval.

ENG 293 Latin American Literature 3 (3,0,0,0)

An introduction to a rich and complex tradition of literary production from Latin America (including the Caribbean) that dates back from the pre-Columbian period to the present. Course will be conducted in English. Prerequisite: C- or better in ENG 100, 101, 101H, or 113, or Department Chair or instructor approval.

ENG 296 Portfolio Assessment 1 (0,0,0,1)

A one-credit, independent study undertaken to satisfy the exit requirement of the Associate of Arts degree in English with a creative writing emphasis. Prerequisite: Instructor approval.

ENG 298 Writing About Literature 3 (3,0,0,0)

English 298 focuses on prose, poetry, and drama in order to provide the tools students need for continued literary study. The course introduces basic literary terms, and various methods for analyzing texts. Prerequisite: ENG 100, 101, or 113.

ENG 299 Special Topics in English 3 (3,0,0,0)

Investigates a special topic and/or area of interest within the field of English language, creative writing, or composition. Prerequisite: ENG 101 or 113.

ENG 333 Professional Communications 3 (3,0,0,0)

A course in applied rhetoric for students to develop the writing and communication skills they will need as professionals. The goal is to make strong writers with flexible analysis, writing, and oral communication skills. Prerequisites: ENG 100, 101, or 113, and admission to the Bachelor of Science program in Dental Hygiene, or the Bachelor of Applied Science program in Cardiorespiratory Science or Medical Lab Technology.

Environmental Science

ENV 101 Introduction to Environmental Science 3 (3,0,0,0)

A survey of basic ecological principles and an examination of selected environmental issues including overpopulation, pollution and energy alternatives.

ENV 220 Introduction to Ecological Principles 3 (3,0,0,0)

An introduction to the major principles and underlying processes of organismal, population, community and ecosystem ecology. (Same as BIOL 220.)

ENV 299 Special Topics in Environmental Studies 1-3 (0,3-9,0,0)

Covers selected topics of interest to students in environmental sciences. Prerequisite: ENV 101.

Education Professional Development

EPD 111B The Paraprofessional in Education 3 (3,0,0,0)

A course designed to acquaint students with the role of a paraprofessional in education.

EPD 113B Assisting in Math and Science Instruction 3 (3,0,0,0)

A course designed to introduce the student paraprofessional to current practices and tutoring strategies for math and science.

EPD 114B Assisting in Language Arts/Literacy Instruction 3 (3,0,0,0)

An introductory course addressing the language arts curriculum and tutoring strategies for the student paraprofessional assisting in the classroom.

EPD 115B Spanish for the School Professional 3 (3,0,0,0)

Basic conversational Spanish appropriate for the school professional.

EPD 116B Classroom Technology 3 (3,0,0,0)

The class will provide the student experience with technology commonly used in the classroom.

EPD 117B Understanding Special Education 3 (3,0,0,0)

An overview of the basics of special education including the IEP, IDEA and related services essential for education paraprofessionals.

EPD 118B Effective Communication Strategies 3 (3,0,0,0)

This course will explore effective communication strategies such as conflict resolution and effective means of communicating in writing in the school setting.

EPD 119B Understanding Assessment 3 (3,0,0,0)

This course will explore the role of assessment as it relates to the public school setting.

EPD 121B Diversity in the Classroom 3 (3,0,0,0)

This course is primarily designed for paraprofessional support teachers to explore the basic principles of diversity in schools and of teaching diverse learners. Observation in school is required.

EPD 122B Legal Issues in the Classroom 3 (3,0,0,0)

This course will explore the legal implications of working in a public school setting as a paraprofessional.

EPD 130B Supervising Education Paraprofessionals in School Settings 3 (3,0,0,0)

This course will provide teachers with supervisory skills and tools to work effectively with paraprofessionals in education.

EPD 131B Health and Safety Issues in School Settings 3 (3,0,0,0)

A course addressing the basic health and safety practices of the school setting.

EPD 162B PPST/Praxis I Reading Review 1 (1,0,0,0)

Review of reading and test taking skills to assist the student in approaching the PPST/Praxis I Reading Exam with confidence. This course is Pass/Fail.

EPD 163B PPST/Praxis I Writing Review 1 (1,0,0,0)

Review of writing and test taking skills to assist the student in approaching the PPST/Praxis I Writing Exam with confidence. This course is Pass/Fail.

EPD 164B PPST/Praxis I Math Review 1 (1,0,0,0)

Review of math and test-taking skills to assist the student in approaching the PPST/Praxis I Math Exam with confidence. Education majors are required to pass the PPST/Praxis I before completing their degree program. This course is Pass/Fail.

EPD 350 Teaching with Technology - Level I 1 (1,0,0,0)

Overview of teaching with technology utilizing online learning styles, discussing digital technologies and experiencing with software programs as teacher resources. This course is taught exclusively online for practicing teachers. Prerequisites: Basic computer and word processing skills.

EPD 351 Teaching with Technology - Level II 1 (1,0,0,0)

Overview of teaching with technology utilizing online web and educational resources and exploring distance education related articles. This course is taught exclusively online for practicing teachers.

EPD 352 Teaching with Technology - Level III 1 (1,0,0,0)

Overview of teaching with technology utilizing online web resources, teacher utilities, and educational resources. Course taught exclusively online to practicing teachers. Must possess basic computer/word processing skills and access to current office programs.

EPD 353 Orientation to Online Learning 1 (1,0,0,0)

Overview of the course management system, WebCT, used in online course development, including Email, Discussion Board and Chatroom.

EPD 354 Student Assessment in Online Courses 3 (3,0,0,0)

This online course addresses various assessment formats that can be used for evaluating students in online courses.

EPD 355 Instructional Design for Online Course Development 3 (3,0,0,0)

Introduces instructional design principles and relates the principles to the development of online courses.

EPD 356 Special Topics: Technology Innovations in Online Learning 2 (2,0,0,0)

This course introduces the emerging technologies for online teaching and learning. The list of technologies is subject to change based on professor discretion, as the course progresses, in terms of both additions and deletions of technologies. Technologies include: Web-Blogs, voice over Internet protocol (VOIP), and Podcasts.

EPD 357 Teaching and Learning in the Online Classroom - Level I 1 (1,0,0,0)

This course introduces pedagogical principles, skills and strategies for effective online teaching and online course management. Participants gain hands-on experience in using web-based chat rooms, email and discussion boards to increase student interaction in their online courses. Participants begin revising course content for the web and developing activities and assignments appropriate for specific disciplines. Course is taught exclusively within WebCT to practicing educators.

EPD 358 Teaching and Learning in the Online Classroom - Level II 1 (1,0,0,0)

Introduction to instructional strategies for online instruction. Students will explore the differences between live and online instruction, gain experience in using search engines/subdirectories to conduct research and critically evaluate online resources for instruction. Course is taught exclusively online to practicing educators.

EPD 359 Teaching and Learning in the Online Classroom - Level III 1 (1,0,0,0)

Participants learn how to revise course content, develop activities and assessment methods appropriate for specific disciplines. Ethical and legal issues associated with online learning will also be discussed. Course is taught exclusively online.

Educational Psychology

EPY 303 Educational Psychology 4 (4,0,0,0)

General principles, theories and recent research evidence regarding human development, human learning and human motivation, especially as they pertain to classroom instruction. Prerequisites: PSY 101 or SOC 101 or ANTH 101 and Admission to Dental Hygiene Bachelor of Science Degree Program.

Environmental Safety and Health

ESH 130 Introduction to Hazardous Materials Management 3 (3,0,0,0)

This course is designed to provide a general overview of the hazardous materials management field with emphasis on hazardous materials, hazardous waste, laws and regulations, and its effects on the environment and worker health and safety. Discussions on federal, state, and local regulations involving hazardous materials and the implementation of pollution prevention and waste minimization will be stressed. (Same as CONS 288B.)

ESH 201 40 Hour Hazwoper Certification 3 (3,0,0,0)

Introduces basic health and safety skills to meet requirements of OSHA 1910.120. A 40-hour certificate will be issued for successful completion. An annual refresher course (ESH 200B) will be required to maintain competency.

ESH 202 Environmental Laws and Regulations 3 (3,0,0,0)

Overview of the development and contents of current federal, state and local laws, regulations and ordinances that control the handling, storage, and disposal of hazardous materials and wastes.

ESH 205 Transportation of Hazardous Materials 3 (3,0,0,0)

Explains regulations governing the transportation of hazardous materials and wastes. Course includes preparing manifests, hazard classifications, placarding, labeling, spill response and driver safety needs. Prerequisite: ESH 130.

ESH 207B Introduction to Safety Management 3 (3,0,0,0)

This course covers the requirement of 29 CFR 1910 and 1926. Topics include interpretation of OSHA standards, record keeping, OSHA inspection procedures, coordination and use of safety committees and writing an effective safety program and policy.

ESH 208B Safety Management II 3 (3,0,0,0)

The focus will be on behavioral safety and identifying the importance of a safety program to an employer and motivation of workers to work safely. Cost analysis and safety program validation to executive management is included. Prerequisite: ESH 207B.

ESH 211B Industrial Hygiene I 3 (3,0,0,0)

Describes basic Industrial Hygiene issues including history and development, anatomy and physiology, hazard recognition and evaluation and hazard control.

ESH 212B Industrial Hygiene II 3 (3,0,0,0)

Continuation of ESH 211B. Includes topics on hazard control and methods, occupational safety and health programs, and governmental regulations. Prerequisite: ESH 211B.

ESH 222B OSHA Construction Standards 3 (3,0,0,0)

This course includes 30 hours of authorized training addressing the 29 CFR 1926 OSHA Construction Industry Regulation Standards. The identification of asbestos, lead, mold, radon and other hazardous materials in potential construction projects will also be covered in this course. Upon completion, students will receive a certificate from the U.S. Department of Labor's Occupational Safety and Health Administration. (Same as CONS 205B.)

ESH 223B OSHA General Industry Standards 3 (3,0,0,0)

This course includes 30 hours of authorized training addressing the 29 CFR 1919 OSHA General Industry Standards. Hazards identification, job safety analysis, risk management and hazardous materials in industry will also be covered. Upon successful completion of this course, students will receive a certificate from the U.S. Department of Labor's Occupational Safety and Health Administration.

ESH 240B Wastewater Treatment I 3 (3,0,0,0)

Basic knowledge for the safe operation of municipal wastewater treatment plants. Topics include flow measurement, screening, grit removal, sedimentation basins, solids handling, secondary biological processes and disinfection.

ESH 241B Wastewater Treatment II 3 (3,0,0,0)

Continuation of Wastewater Treatment I. Covers conventional activated sludge, solids handling, effluent disposal, laboratory procedures, analysis and presentation of data, records and recordkeeping. Prerequisite: ESH 240B.

ESH 242B Wastewater Treatment III 3 (3,0,0,0)

Continuation of Wastewater Treatment II. Covers odor control, activated sludge, operational control alternatives, solids handling and disposal, phosphorus removal, nitrogen removal, wastewater reclamation. Prerequisite: ESH 241B.

ESH 243B Water Treatment Plant Operations I 3 (3,0,0,0)

Basic knowledge for safe operation of water treatment plants. Topics include waste resources, reservoir management, coagulation and flocculation, sedimentation, filtration, disaffectation, corrosion control and taste and odor control.

ESH 244B Water Distribution I 3 (3,0,0,0)

Basic knowledge for the safe operation and maintenance of water treatment plants. Topics include storage facilities, distribution facilities, water quality considerations, disaffectation and safety.

ESH 245B Water Treatment Plant Operations II 3 (3,0,0,0)

Continuation of ESH 243B, emphasizing the skills needed by operators of conventional surface water treatment plants. Includes information needed by operators responsible for the administration and management of treatment facility. Prerequisite: ESH 243B.

ESH 246B Water/Wastewater Mathematics I 3 (3,0,0,0)

Basic review of mathematical skills used routinely in the water and wastewater treatment, including areas, volumes, flows, velocities, loading rates and dosages. Prerequisite: ESH 240B, or 243B.

ESH 247B Water/Wastewater Mathematics II 3 (3,0,0,0)

Continuation of Water/Wastewater Mathematics I. Includes calculation for treatment efficiencies, pumping rates and pump calibration, horsepower, effluent disposal, solids handling and activated sludge. Prerequisite: ESH 246B.

ESH 248B Water Quality Analysis and Laboratory 4 (2,4,0,0)

Lab tests required for water and wastewater treatment process control. Covers approved analytical procedures, quality control, and interpretation of data. Prerequisites: ESH 241B, 246B.

ESH 249B Industrial Pretreatment Programs and Inspection 3 (3,0,0,0)

This course is designed to train inspectors in the safe and efficient procedures for inspecting industrial pretreatment facilities and to provide industrial users with an understanding of local limit requirements.

ESH 250B Pump Operation and Maintenance 3 (3,0,0,0)

Operation and maintenance of pumps, motors and valves in water and wastewater treatment plants and in collection and distribution systems.

ESH 251B Current Issues 3 (3,0,0,0)

Discussion of current issues in the field of water and wastewater technology.

ESH 265B Safety Laws and Regulations 3 (3,0,0,0)

Course covers the processes, sources and applications for minimum requirements established by laws, regulations, statutes, and codes.

English as a Second Language**ESL 110B English as a Second Language I 3 (3,0,0,0)**

This course focuses on the student's acquisition and control of the basic sound structures and sentence patterns of English. Prerequisite: Placement Test.

ESL 111B English as a Second Language II 3 (3,0,0,0)

This course focuses on the student's acquisition and control of the basic sentence patterns of English. Prerequisite: Placement Test or ESL 110B.

ESL 115B Reading and Communication for International Students I 3 (3,0,0,0)

Development of reading and communication skills through analysis of assigned texts, study of vocabulary and idioms; explanation of grammar difficulties as needed, and guided discussion. Prerequisite: Placement Test.

ESL 118B Reading and Communication for International Students II 3 (3,0,0,0)

Development of reading and communication skills through analysis of assigned texts; study of vocabulary and idioms; explanation of grammar difficulties as needed; and guided discussion. Prerequisites: Placement Test or both ESL 110B, and 115B.

ESL 119B Reading and Communication for International Students III 3 (3,0,0,0)

Development of reading and communication skills through analysis of assigned texts; study of vocabulary and idioms; explanation of grammar difficulties as needed; and guided discussion. Prerequisites: Placement Test or both ESL 111B and 118B.

ESL 120 English as a Second Language III 3 (3,0,0,0)

An intermediate level course that continues the development of the basic sentence patterns of English in increasingly difficult contexts. Prerequisite: Placement Test or ESL 111B.

ESL 121 English as a Second Language IV 3 (3,0,0,0)

An intermediate level course that continues the development of the basic sentence patterns of English in increasingly difficult contexts. Prerequisite: Placement Test or ESL 120.

ESL 122 Pronunciation and Listening Skills for International Students I 3 (3,0,0,0)

Focuses on improvement of sound production and listening comprehension; attention given to the vowel/consonant system, reduced forms, stress and intonation. Prerequisite: Placement Test or ESL 120.

ESL 123 Reading for International Students I 3 (3,0,0,0)

Development of reading skills through analysis of assigned texts; systematic study of vocabulary and idioms; explanation of grammar difficulties as necessary. Prerequisite: Placement Test or ESL 120.

ESL 124 Grammar for International Students I 3 (3,0,0,0)

A beginning course focusing on the forms and meanings of English structure. Emphasis is on writing skills; however, attention is also given to oral skills. Prerequisites: Placement Test or ESL 121 and 123.

ESL 125 Reading for International Students II 3 (3,0,0,0)

Development of reading skills through analysis of assigned texts; systematic study of vocabulary and idioms; explanation of grammar difficulties as necessary. Prerequisites: Placement Test or ESL 123 and 124.

ESL 126 Grammar for International Students II 3 (3,0,0,0)

An intermediate course focusing on the forms and meanings of English structure. Emphasis is on writing skills; however, attention is also given to oral skills. Prerequisite: Placement Test or ESL 124.

ESL 127 Pronunciation and Listening Skills for International Students II 3 (3,0,0,0)

Emphasis is on improvement of listening comprehension; attention given to consonant system and reduced forms. Prerequisites: Placement Test or ESL 125 and 126.

ESL 128 Grammar for International Students III 3 (3,0,0,0)

An advanced course focusing on the forms and meaning of English structure. Emphasis is on writing skills; however, attention is also given to oral skills. Prerequisites: Placement Test or ESL 125 and 126.

ESL 129 Written English for International Students 3 (3,0,0,0)

For ESL students who need further practice in advanced grammar and writing; focuses on sentence combining and analysis of rhetorical modes used in paragraph development. Prerequisite: Placement Test or ESL 128.

ESL 132 Reading for International Students III 3 (3,0,0,0)

Development of reading skills through analysis of assigned texts; systematic study of vocabulary and idioms; explanation of grammar difficulties as necessary. Prerequisites: Placement Test or ESL 125 and 128.

ESL 133 Speech Communication 3 (3,0,0,0)

For advanced ESL students who need practice speaking English in public. This course includes reading/writing, research, debates, and speeches in English. Prerequisite: Placement test or completion of ESL 129.

ESL 134 Beginning Conversation 3 (3,0,0,0)

ESL students will learn 100+ vocabulary words, correct grammar for question formation, and the importance of eye contact and will also gain confidence and fluency in speaking. Basic reading, vocabulary, and grammar are required for group discussions. Prerequisite: Placement test or ESL 124.

ESL 135 Reading and Conversation for International Students 3 (3,0,0,0)

Development of reading skills through analysis of assigned texts, systematic study of vocabulary and idioms; explanation of grammar difficulties as necessary. Prerequisites: Placement Test or ESL 129 and 132.

ESL 136 Intermediate Conversation 3 (3,0,0,0)

Students will research and summarize stories, form/support/argue their opinions, and increase fluency in speaking. Intermediate reading, vocabulary, and grammar are required for group discussions. Prerequisite: Placement test or ESL 125.

ESL 138 Intermediate Writing for International Students 3 (3,0,0,0)

For non-native students who need further practice in expressing their ideas in written form. Includes practice in grammar, editing, sentence combining, and word choice. Prerequisites: Placement Test or ESL 129 and 132.

ESL 139 Composition for International Students 3 (3,0,0,0)

Improvement of writing skills for non-native speakers; emphasis on writing for academic purposes; attention given to sentence combining and grammatical errors made by ESL students. Prerequisites: Placement Test or ESL 135 and 138.

**ESL 140 Advanced
English Editing 3 (3,0,0,0)**

For advanced ESL speakers who need to learn to self-correct their written work. Individualized assignments help each student overcome his/her English writing problems. Prerequisite: Placement test.

Electronics Engineering Technology**ET 100B Survey of Electronics 3 (3,0,0,0)**

Introduces modern electronics technology and electronics concepts including voltage, current, resistance, power and frequency and functional analysis of simple analog and digital systems.

**ET 104B Fabrication and Soldering
Techniques 0.5-6 (0,1-12,0,0)**

Introduces electronic fabrication skills, tool operations applied to fabrication techniques of simple circuit boards, reading of schematic diagrams, soldering, drafting and wire wrapping.

**ET 106B Test Equipment
Operation 3 (2,2,0,0)**

An introduction to the use and operation of general and special purpose electronic test equipment, includes oscilloscope, multimeters, electronic multimeters, signal generators and transistor/capacitor testers.

**ET 108B Telecommunications and
the Information Age 3 (3,0,0,0)**

An introductory course that looks at the Telecommunications Industry from a technology standpoint. The student will learn about the telephone and telephone system, local area networks, fiber optics, how a modem works, wireless communications and other related topics.

ET 113B Introduction to Radar 3 (3,0,0,0)

This course is an introduction to fundamental principles of radar. Topics include keys to a fundamental understanding of radar, directivity and the antenna beam, pulsed-delay and FM ranging, pulse compression, the Doppler effect, the pulsed spectrum, measuring range rate, choice of low and high PRFs, automatic tracking, and resolution requirements. Prerequisite: ET 132B.

**ET 125B RF and
Microwave Devices 3 (3,0,0,0)**

This course includes a close look at various semiconductor RF and microwave devices, including microwave vacuum tubes, oscillators, amplifiers and power supplies.

ET 131B DC for Electronics 4 (3,3,0,0)

Basic concepts of passive electronic circuits to include laws, measurements, and calculations relating to direct current. Components and general purpose test equipment are used in practical experimentation. Students in this course should have a working knowledge of algebra.

ET 132B AC for Electronics 4 (3,3,0,0)

Basic concepts of passive electronic circuits to include laws, measurements, and calculations relating to alternating current. Components and general purpose test equipment are used in practical experimentation. Prerequisites: MATH 111B or MATH 127, and ET 131B or MT 102B with a grade of B or higher.

**ET 138B Introduction to Slot Machine
Technology 0.5-3 (0.5-3,0,0,0)**

An introduction course detailing the theory and operation of typical slot machines. Installation, maintenance and troubleshooting of slot machines and their peripherals will also be covered in this course. This course can be repeated for up to a total of 3 credits.

**ET 155B Home Technology
Convergence 3 (3,0,0,0)**

This course prepares students for the CompTIA's Home Technology Integration (HTI+) certification exam (HTO-10, HTI+ Residential System Examination and the HTO-102 HTI+ Systems Infrastructure and Integration Examination for HTI+ certification) and provides hands-on exercises in home technology integration skills. Topics covered include integration and internet control of residential subsystems, structured wiring systems integration, and an introduction to computer networking, safety, and troubleshooting. Subsystems discussed are home security, audio/video, computer networks, electrical wiring, HVAC (Heating Ventilation/Air Conditioning), irrigation, cable/satellite, broadband, and telecommunications. Hands-on lab experiences cover commercial wiring and the installation and troubleshooting of integrated system.

**ET 205B Power Supply
Theory and Repair 1-4 (1-3,0-2,0,0)**

The course covers the theory, operation, troubleshooting, and repair of unregulated, series linear and switching power supplies. A basic understanding of DC circuit theory and a rudimentary understanding of AC from work experience is recommended for students of this course. This course can be repeated for a total of 4 credits.

**ET 206B Video Monitor
Theory and Repair 1-4 (0-3,0-3,0,0)**

Covers the theory, operation, repair, and troubleshooting of CRT displays, LCDs, and the power supplies which are found in most CRT and LCDs. The hands-on labs will include troubleshooting on equipment from various manufacturers. This course is designed for students who have completed courses on DC and digital electronics or have at least 2 years of electronic experience. This course can be repeated for up to a total of 4 credits.

ET 212B Digital Logic I 4 (3,3,0,0)

This course is the first semester of one-year course to study digital logic. It covers number system, logic gates, Boolean algebra and Karnaugh mapping, binary arithmetic and adders, combinational/sequential circuits and their applications. Students taking this course should have a basic understanding of electrical/electronics theory.

ET 213B Digital Logic II 4 (3,3,0,0)

Counters and registers, TTL and CMOS integrated circuits, MSI logic circuits, analog/digital interfacing circuits, memory devices, and introduction to microprocessors and microcomputers. Prerequisite: ET 212B.

ET 220B Solid State Devices and Circuits I 4 (3,3,0,0)

Covers characteristics, analysis and operation of rectifier diodes, zener and other diodes; BJT transistor small-signal and power amplifiers; FET and MOSFET transistors and circuitry. Prerequisite: ET 132B or instructor permission.

ET 222B Solid State Devices and Circuits II 4 (3,3,0,0)

This course covers amplifier-frequency responses for both discrete and integrated circuits, op-amp circuits, thyristors, oscillators, active filters, and voltage regulators. Prerequisite: ET 220B.

ET 224B Vacuum Tube Theory 1-4 (1-3,0-2,0,0)

This course covers the theory of operation for all electronic tube devices and focuses on the operation of tube based devices Diodes, Triodes, Tetrodes, and Pentodes. The course also covers the use of tube devices in basic circuits such as power supplies. The course is designed for students who have completed courses in electronic devices or have at least 2 years of electronic experience. This course can be repeated for a total of 4 credits. Prerequisite: ET 132B.

ET 228B Data Acquisition 3 (2,3,0,0)

This course provides a detailed look at data acquisition components: analog-to-digital converters (ADCs), digital-to-analog converters (DACs), sample and hold amplifiers, sensors, and PLLs. Op-amp theory and applications are also covered. Prerequisites: ET 132B, 212B.

ET 238B Device Peripherals 3 (2,2,0,0)

Covers the key components and sub-assemblies used in slot machines and other self-service devices such as Kiosks, and ATMs. Instruction includes topics such as opto-couplers, thyristors, bill acceptors, and interface standards, microprocessors/controllers, power supplies, switches, and displays. Prerequisites: ET 131B and 212B.

ET 270B Electronics Bench Servicing Techniques 4 (3,3,0,0)

Troubleshooting and servicing television, radio and other home entertainment equipment utilizing general purpose and special purpose test equipment. Prerequisite: ET 262B.

ET 276B Telecommunications 4 (3,3,0,0)

Topics covered include the Public Switched Telephone Network, the subscriber loop interface, the telephone instrument, trunk circuits, T-Carrier, switching, Voice over IP (VoIP) and telephone company operations. Prerequisite: ET 131B.

ET 282B Microprocessors I 3 (2,3,0,0)

A course on microprocessor machine and assembly language programming. A microprocessor's instruction set will be covered along with its architecture and interface. Prerequisite: ET 212B.

ET 285B Electronics Certification/ Examination Preparation 3 (3,0,0,0)

The course is a review of DC and AC Electronic theory; solid state devices and circuits; digital circuits; microprocessor/microcontroller circuits; operation of test instruments and measurement methods, and troubleshooting of electronics circuits. The course prepares students for certification and employment tests in electronics.

ET 289B Electrical Troubleshooting 1-4 (1-3,0-3,0,0)

Maintenance and service of electronic equipment and troubleshooting techniques using electrical measuring and test devices. This course is designed for students who have completed courses on DC and digital electronics or have at least 2 years of experience in electronics. This course can be repeated for up to a total of 4 credits.

ET 293B Telecommunication Transmission Methods 3 (2,3,0,0)

Topics include: Amplitude, Frequency and Pulse Modulation, Modem technologies (wireline, cable and DSL), error control, cyclic codes: (CRC-16, Hamming, etc.). Circuit switched and packet transmission of voice and data over SONET and wireless media (fiber optic and microwave) are emphasized. Prerequisite: ET 132B.

ET 294B EET Capstone 3 (2,2,0,0)

Review of electrical circuits, analog and digital electronics, microprocessors; design, fabrication and testing of an emphasis/concentration based project including schematics, wiring diagrams, and software; brief presentation and demonstration of working prototype. Prerequisite: ET 193B or 238B.

Food and Beverage

FAB 102 Food Service Sanitation II 2 (2,0,0,0)

The theory and practice of food and environmental sanitation in the Culinary field. Food-related diseases, disease origins and personal hygiene are given special attention. Meets standards of National Sanitation Certification.

FAB 112 Restaurant Management I 3 (2,3,0,0)

Overview of the basic principles of restaurant management, operations and front-of-the-house training and development. Course contains laboratory work in Russell's Restaurant. Prerequisite: Choose one: ENG 100, 101, 102, 107, 113, 205 or higher with a grade of "C" or better.

FAB 160 Hospitality Purchasing 3 (3,0,0,0)

Basic principles of purchasing food, beverage, equipment, contract services and supplies. Primary focus on product identification, supplier selection, and the ordering, receiving, storing and issuing process.

FAB 167 Food Service Nutrition 2 (2,0,0,0)

Students learn the basics of nutritionally balanced menu planning and methods of promoting and producing healthy alternative food plans.

FAB 190B Bartending 3 (2,2,0,0)

A basic class devoted to developing the skills necessary to function as a bartender in a Hospitality operation. This is a hands-on course covering mixology of liquors and the handling of all types of alcoholic beverages. Must be 21 or older

FAB 210 Fundamentals of Food and Beverage Control 3 (3,0,0,0)

Cost control in the food service operation through sound procedures, controlled food production, inventories, store-room issues, standardized recipes, effective labor practices and maintenance of records. Prerequisites: FAB 160, MATH 104B, 120, 124, or 126.

FAB 230 Menu Planning 3 (3,0,0,0)

The basics of planning menus for a variety of food service establishments. Students will learn marketing and merchandising menus, menu development and costing, basic menu printing software and develop their own individual menus. Prerequisite: FAB 112 with a grade of "C" or better.

FAB 260 Hotel Restaurant Facilities, Planning and Equipment 3 (3,0,0,0)

Planning of hotel restaurant facilities with emphasis on equipment selection, layout, staffing, budgets, menus and work analysis.

FAB 271 Wine Appreciation 3 (3,0,0,0)

A comprehensive course on the wines of the world. The art of wine making, geographical identification of wine regions, ordering and serving of fine wines, history of wines and the proper matching of wines with foods. Each class meeting will include the tasting of several wines. Minimum age for enrollment is 21.

FAB 272 Liquor and Bar Management 3 (3,0,0,0)

A survey of the service and control of wines, liquors and beers, including discussion of taxes and local, state and national laws relating to the liquor industry. Student must be 21 or older.

FAB 285 Catering Management 3 (3,0,0,0)

Course teaches students how to market, sell, organize, plan, and execute catered affairs. Includes various types of meeting room set-ups used to meet customer requirements. Prerequisite: FAB 112.

FAB 295 Work Experience in Food Service 1 (0,0,0,1)

In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV's 1000 hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to a maximum of four credits. Grade will be given upon verification of employment.

Filipino

FIL 101B Basics of Filipino I 3 (3,0,0,0)

A course emphasizing spoken communication. Focus is on speaking, listening, reading and writing skills. A vocabulary of Filipino-English words developed.

FIL 102B Basics of Filipino II 3 (3,0,0,0)

A course continuing the development of skills acquired in FIL 101B. Increased fluency and further vocabulary development stressed. Prerequisite: FIL 101B.

FIL 111 First Year Filipino I 4 (4,0,0,0)

The development of language skills in listening, speaking, reading and writing. Oral emphasis.

FIL 112 First Year Filipino II 4 (4,0,0,0)

A second-semester course designed to continue the development of language skills learned in FIL 111. Prerequisite: FIL 111.

Banking and Finance

FIN 101 Personal Finance 3 (3,0,0,0)

A study of the techniques of managing personal income, savings and expenses, making wise purchase decisions, insuring, investing and controlling financial resources.

FIN 102B Principles of Banking Operations 3 (3,0,0,0)

Presents the fundamentals of bank functions in a descriptive fashion so that the beginning banker may view his or her chosen profession in a broad and operational perspective.

FIN 103B Analyzing Financial Statements 3 (3,0,0,0)

Characteristics of financial statements for students who have studied accounting and financial statement analysis. Prerequisite: ACC 201.

FIN 104B Consumer Lending 3 (3,0,0,0)

Techniques of installment lending presented concisely. Emphasis on establishing credit, obtaining and checking information, servicing the loan and collecting the amount due, inventory financing, special loan programs, business development, advertising, the public relations aspect of installment lending and most efficient methods to maximize profits.

FIN 107B Bank Management 3 (3,0,0,0)

Presents new trends which have emerged in the philosophy and practice of management to provide new and experienced bankers with a working knowledge of bank management. Court case problems used as a management learning technique.

FIN 109B Marketing for Bankers 3 (3,0,0,0)

Discusses the basis of public relations both internal and external and seeks to explain the why, the what and some of the how of public relations and marketing. Intended as an overview for all bankers in terms of what everyone in banking should know about the essentials of bank public relations and marketing.

FIN 115 Introduction to Investments 3 (3,0,0,0)

Major types of investment securities and the markets in which they are traded. Mechanics of making an investment, including basic analytical and valuation techniques and a survey of investment literature and terms.

FIN 210B Money and Banking 3 (3,0,0,0)

Presents basic economic principles as they relate to banking. Provides the essential understanding necessary to further banking study.

FIN 216B Commercial Lending 3 (3,0,0,0)

Teaches bank employees the essential facts about promissory notes including: calculating interest and discounting commercial paper, guarantees, general collateral agreements, examining and processing documents accompanying notes secured by stocks, bonds and savings accounts and the concepts of attachment, perfection, priority default and foreclosure.

FIN 255B International Banking 3 (3,0,0,0)

Introduction to a vast field for those working in international departments as well as for those involved in the domestic activities of their banks. Presents the basic framework and fundamentals of international banking, how money is transferred from one country to another, how trade is financed, what the international agencies are and how they supplement the work of commercial banks and how money is changed from one currency to another.

Floral Design

FLOR 102B Introduction to Floral Design 3 (3,1,0,0)

Introductory course covering floral design theory, history, techniques and the skills currently required for employment in the floral design industry. Lab experience covers construction of basic floral products. Successful completion of course offers entry-level employment in field.

FLOR 106B Permanent Botanicals 3 (3,1,0,0)

Designed to provide the student with theory and lab experience in the use of artificial materials and dried flowers. Emphasis on mechanics and techniques of construction for home interiors, as well as commercial applications. Preservation processes and interiorscapes included. Prerequisite: FLOR 102B.

FLOR 108B Event Balloon Sculptures 1.5 (1,1,0,0)

Course will address the planning, purchasing, construction, installation and strike of large event balloon decor. Arches, themed decor, props and large sculptures will be constructed.

FLOR 115B Mega-Department Practices 3 (3,1,0,0)

Addresses workplace practices common to mega-floral settings like those found in resorts and supermarkets. Job application, task analysis and interiorscape planning/installation are covered. Prerequisite: FLOR 102B.

FLOR 202B Tributes and Traditions 3 (3,1,0,0)

A study of the effects of international influences on florals. Cultural differences in expression through floral tributes will be explored through customs, practices and traditions of many countries. Retail practices in the handling and styling of floral tributes specific to funerals with cross applications to other situations. Prerequisite: FLOR 102B.

FLOR 204B Traditional Weddings 3 (3,1,0,0)

Designed to provide the student with theory and lab experience in the styling of floral pieces specific to weddings. Body flowers, carrying pieces, ceremony and reception designs will be executed. Consultation, service and delivery procedures will be covered, as well as ordering and pricing. Prerequisite: FLOR 102B.

FLOR 206B Beginning Ikebana 3 (3,1,0,0)

Course includes history, techniques and skills specific to the Japanese art of floral design with direct application to commercial floristry. Specialized tools and containers will be required to complete lab projects reflecting the many styles of Ikebana designs. Prerequisite: FLOR 102B.

FLOR 208B Creativity and Competition 3 (3,1,0,0)

Principles and practices of the creative process will be developed to enhance design skills. Students will apply these skills to prepare for industry competition. Prerequisite: FLOR 102B.

FLOR 216B Advanced Ikebana 3 (3,1,0,0)

A continuation of FLOR 206B Beginning Ikebana. In-depth study of advanced styles and masters of Ikebana. Prerequisite: FLOR 206B.

FLOR 220B Events and Display 3 (3,1,0,0)

Comprehensive information regarding planning, organizing, managing and delivering designs for special occasions. Party props, room decor, table treatments, lighting and display elements are emphasized along with art principles and creative thematic approaches to floral design. Prerequisite: FLOR 102B.

FLOR 224B Techniques and Mechanics 1.5 (1.5,0.5,0,0)

Course addresses unique approaches to floral design mechanics and techniques for advanced design situations, including working in glass, hi-style, bridal/body flowers, naturalistic applications and European design. Prerequisite: FLOR 102B or instructor permission.

FLOR 225B Color and Product Mix 1.5 (1.5,0.5,0,0)

Course addresses the use of color as an aesthetic sales tool in the manufacture of floral products. Focus is on selection of product as it relates to color, as well as combining materials to maximize each composition in respect to texture, unity, rhythm, line, form, and balance. Prerequisite: FLOR 102B or instructor permission.

FLOR 295B Floral Careers Internship 1-4 (0,0,0,5-20)

Designed to provide the student with on-the-job supervised and educationally directed work experience in the floral industry. One credit may be earned for each 75 hours worked. Variable to four credits per semester, repeatable not to exceed eight credits total. International students must go to the International Center to verify employment and obtain authorization. After registering, contact Floral Design Program for placement. Instructor permission required.

FLOR 299B Selected Topics 1-5 (1-3,0-4,0,0)

Topics will vary and cover both business and design information relevant to commercial floristry, including industry experts and hands-on labs. Dates and times will vary.

French

FREN 101B Conversational French I 3 (3,0,0,0)

A course emphasizing spoken communications. Speaking skills, oral listening skills, reading and writing skills explored. A vocabulary of French-English words developed.

FREN 102B Conversational French II 3 (3,0,0,0)

A course emphasizing a continuation of skills acquired in FREN 101B. Increased fluency and further vocabulary development stressed.

FREN 103 First Year Business French I 4 (4,0,0,0)

A course that deals intensively with French business practices and French business language intended for students who encounter French-speaking clients in various professional situations.

FREN 104 First Year Business French II 4 (4,0,0,0)

An applied language course for learners who want to communicate with ease with French-speaking clients and further their knowledge of commercial and managerial French. Prerequisite: FREN 103.

FREN 107 French for Hotel, Restaurant and Tourism I 3 (3,0,0,0)

Students with no prior knowledge of French who work in hotels, restaurants or in tourist settings learn to communicate effectively with their French-speaking clientele.

FREN 111 First Year French I 4 (4,0,0,0)

The development of language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language acquisition skills.

FREN 112 First Year French II 4 (4,0,0,0)

The further development of language skills in listening, speaking, reading and writing. Emphasis is placed on more sophisticated communication in all four language acquisition skills. Prerequisite: FREN 111 or equivalent.

FREN 203 Second Year Business French I 4 (4,0,0,0)

An applied intermediate language course for learners who want to further perfect their ability in business French and their knowledge of French business practices.

FREN 204 Second Year Business French II 4 (4,0,0,0)

An applied intermediate language course for learners who want to perfect their language abilities and knowledge of business French and French business practices. Prerequisite: FREN 203.

FREN 207 French for Hotel, Restaurant and Tourism II 2 (2,0,0,0)

Students with previous knowledge of French in the area of hotel, restaurant and tourism increase their communication skills in their respective employment fields. Prerequisite: FREN 107.

FREN 211 Second Year French I 3 (3,0,0,0)

Continuation of French language skills and intensive reviews of grammatical structures, listening, speaking, reading and writing skills through an introduction to French literary readings. Prerequisite: FREN 112 or equivalent.

FREN 212 Second Year French II 3 (3,0,0,0)

Further amelioration and perfection of grammatical, listening, speaking, reading and writing skills through selected French literary readings. Prerequisite: FREN 211 or equivalent.

Fire Science Technology

FT 101 Principles of Emergency Services 3 (3,0,0,0)

This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. FESHE Core Course.

FT 104 Nevada Firefighter I 3 (3,0,0,0)

This course will familiarize the student with the general rules and regulations of fire fighting, use and explanation of forcible entry, protective breathing apparatus, fire streams, first aid, ropes, salvage, fire hose, nozzles and apparatus, ladders, ventilation, inspection, rescue, sprinklers, fire alarms and communications, safety and fire behavior.

FT 105 Fire Behavior and Combustion 3 (3,0,0,0)

This course explores the theories and fundamentals of how and why fires start, spread and are controlled. FESHE Core Course.

FT 109B Internship in Firefighting 1 (0,0,0,4)

This course will provide students with work experience and skills sign-offs that meet the National Fire Protection Association's Firefighter I criteria. This course will make the student eligible to take the Nevada Fire Fighter I exam. Students must have proof of insurance. Prerequisites: FT 101, 104, 131, EMS 108B.

FT 110 Basic Wildland Firefighting 4 (3,0,0,2)

Addresses the basic elements of wildland fire protection, fire behavior, department organization, apparatus and equipment, fire safety and incident command organization. Fieldwork is required. Satisfies Wildland Training Series for S-110, S-130, and S-190. Note: Satisfactory completion qualifies the student for National Wildland Fire Certification (Red Card).

FT 121 Fire Prevention 3 (3,0,0,0)

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. FESHE Core Course.

FT 125 Building Construction for Fire Protection 3 (3,0,0,0)

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. FESHE Core Course.

FT 126 Fire Investigation I 3 (3,0,0,0)

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. FESHE Non-Core Course. Prerequisites: FT 104, 105, 125, or instructor approval.

FT 131 Hazardous Materials Chemistry 3 (3,0,0,0)

This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, transportation, and health hazards encountered by emergency services. FESHE Non-Core Course.

FT 150 Apparatus and Equipment 3 (3,0,0,0)

Operation of fire department apparatus and equipment. Driving techniques, traffic laws and restrictions relating to fire apparatus. Construction and maintenance of equipment also stressed.

FT 151 Fire Protection Hydraulics and Water Supply 3 (3,0,0,0)

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. FESHE Non-Core Course. Prerequisites: FT 101, 104, MATH 120, or instructor approval.

**FT 152B Legal Aspects of
Emergency Services 3 (3,0,0,0)**

This course will address the Federal, State, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards. FESHE Non-Core Course. Prerequisite: FT 104, or instructor approval.

**FT 153B Occupational Safety and Health
for Emergency Services 3 (3,0,0,0)**

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations. FESHE Non-Core Course. Prerequisite: FT 104, or instructor approval.

**FT 154B Principles of Fire and
Emergency Services Safety
and Survival 3 (3,0,0,0)**

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. FESHE Core Course. Prerequisite: FT 104, or instructor approval.

FT 190 Fire Instructor I 3 (3,0,0,0)

Topics included are the role of the instructor, preparing instructional objectives, communication skills, use of visual aids, and practice teaching techniques. Meets NFPA Standard 1041, Fire Instructor Training. Those completing the course will be certified as Fire Instructor I by the Nevada State Fire Marshal.

**FT 191 Introduction to
Company Officer 3 (3,0,0,0)**

This is an entry-level course which prepares the students to recognize the fire service company officer's role. It will examine group dynamics, communication, fire department organizational structure, fire ground and station management. This course partially meets the National Fire Protection Association's standard for Fire Officer.

FT 224 Fire Protection Systems 3 (3,0,0,0)

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. FESHE Core Course.

FT 226 Fire Investigation II 3 (3,0,0,0)

This course is intended to provide the student with advanced technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and court-room testimony. FESHE Non-Core Course. Prerequisite: FT 126.

FT 243 Strategy and Tactics 3 (3,0,0,0)

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. FESHE Non-Core Course. Prerequisites: FT 101, 104, or instructor approval.

**FT 291 Fire and Emergency
Services Administration 3 (3,0,0,0)**

This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer. FESHE Non-Core Course. Prerequisites: FT 101, 104, or instructor approval.

**FT 298 Seminar in
Fire Management 3 (3,0,0,0)**

Selected topics in Fire Management.

Casino Management

**GAM 103 Casino Cage
Operations 3 (3,0,0,0)**

Structured to provide students with knowledge and skills directly relevant to employment as a casino cage cashier. Practical application of the material presented. Emphasis on "learning by doing."

**GAM 106 Supervision of
Casino Games 3 (3,0,0,0)**

Basic casino managerial techniques with an emphasis on protection of casino games, staffing, labor/management relations, floor, pit, and shift supervision, credit and market control, cash and chip control and internal control forms.

GAM 108 Slots Management I 3 (3,0,0,0)

Basic slots management techniques with an emphasis on supervision of slot shift managers, mechanics, floor persons, change persons, booth cashiers, carousel attendants, coin room manager, slot drop, count room, jackpot fills and credits.

GAM 109 Slots Management II 3 (3,0,0,0)

Advanced slots management techniques with an emphasis on labor/management relations, productivity, staffing and directing, analysis of the slot report, marketing and promotions of slots and the detection of slot scams.

GAM 119 Blackjack Dealing 3 (3,0,0,0)

Fundamentals of dealing Blackjack with an emphasis on card totaling, chip handling and cutting, shuffling, multiple deck delivery, the shoe, call bets, procedures, accuracy and game speed. Special attention given to the management aspects of Blackjack.

GAM 121 Craps Dealing 3 (3,0,0,0)

Fundamentals of dealing Craps with an emphasis on accurate and quick mental multiplication, chip handling, knowledge of odds on a variety of bets, procedures and game speed. Special attention given to the managerial aspects of Craps.

GAM 122 Roulette Dealing 3 (3,0,0,0)

Fundamentals of dealing Roulette with an emphasis on accurate and quick mental computations, chip handling, memorization of wheel and table layouts, procedures and game speed. Special attention given to the managerial aspects of Roulette.

GAM 123 Baccarat Dealing 3 (3,0,0,0)

Fundamentals of dealing Baccarat with an emphasis on the knowledge of commissions, percentages, mental computations, procedures, accuracy, game speed and the importance of customer relations, a significant component of the game. Special attention given to the managerial aspects of Baccarat.

GAM 124 Poker Dealing 3 (3,0,0,0)

Fundamentals of dealing Poker with an emphasis on accurate and quick mental computations, card handling, the rake, side pots, brushing, shilling, proposition players, procedures, game speed and the various forms of Poker. Special attention given to the managerial aspects of Poker.

GAM 126 Pai Gow Tiles Dealing 3 (3,0,0,0)

Fundamentals of dealing Pai Gow Tiles with an emphasis on tile rankings, house ways, exceptions, tile handling techniques, player banking procedures, various tile deliveries, commissions, mental computations, accuracy, game speed and the importance of customer relations. Special attention given to the managerial aspects of Pai Gow Tiles.

GAM 131 Race and Sports Book Management 3 (3,0,0,0)

This course prepares students in the specific techniques and methods of the daily operations of Nevada race and sports books. Students will be made aware of supervision and managerial responsibilities of book operations. Topics include operating budgets, marketing, state regulations and bookmaking theory.

GAM 204 Introduction to Casino Marketing 3 (3,0,0,0)

An overview of casino marketing and how the marketing function impacts the casino organization. Topics include casino promotions, database marketing techniques, dead chip programs, discounting, casino hosting, credit procedures, marketing policies and procedures, amenities, and the casino marketing plan.

GAM 206 Casino Surveillance 3 (3,0,0,0)

All aspects of modern casino surveillance including: slots, table games, cage, sports books and keno. Also covers gaming control board requirements.

GAM 207 Table Games Management 3 (3,0,0,0)

Advanced table games management techniques with an emphasis on game productivity, gaming mathematics, table games marketing and promotions, advanced game protection strategies, customer service, table games human capital management, and an in-depth analysis of table games profitability factors.

GAM 208 Casino Business Strategy 3 (3,0,0,0)

Fundamentals of the strategic business processes of a casino organization from internal and external perspectives. Topics include casino economics, environmental factors including social, political, legal and competitive forces, consumer behaviors, development of a corporate culture, internal controls, and the future of the gaming industry.

GAM 210 Casino Customer Service 3 (3,0,0,0)

Fundamentals of the theory, practice and management of guest service and how it impacts the success of a casino organization with an emphasis on service strategies, staffing issues, and service systems. Topics include the dynamics of guest satisfaction, service quality and value, planning and analysis, the service environment, training and motivation, establishment of a total service culture, guest co-production, communications, service failure recover techniques, delivery systems, and measurement of service results.

GAM 222 European Roulette Dealing 3 (3,0,0,0)

Fundamentals of dealing European Roulette with an emphasis on progressive limits, complete bets, paying by station, section bets, neighbor bets, overages, finales, mathematical computations, procedures, accuracy, and game speed. Special attention given to the managerial aspects of European Roulette. Prerequisite: GAM 122.

GAM 225 Introduction to Gaming Management 3 (3,0,0,0)

Overview of the casino; topics include the economics of the casino, its interface with the hotel, organizations and terminology.

GAM 235 Gaming Laws and Regulations 3 (3,0,0,0)

A survey of the laws and regulations pertaining to the gaming and hospitality industry. Specific emphasis include the history and development of Nevada gaming laws, regulations, and statutes, compliance requirements of gaming licensees, legal aspects pertaining to licensee/guest relations, labor laws, gaming crimes, tort laws, and liabilities of the licensee.

**GAM 295 Work Experience
in Casino/Gaming 1 (0,0,0,1)**

In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV's 1000 hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to a maximum of four credits. Grade will be given upon verification of employment.

Geography

GEOG 103 Physical Geography 3 (3,0,0,0)

Physical geography examines the spatial relationships between humans and the environment. A comprehensive and integrating science, physical geography allows the integration of earth systems such as weather, land formations, and earth patterns. Continuous integration of maps atlases, internet and geographic information system technology.

**GEOG 104 Physical Geography
Laboratory 1 (0,3,0,0)**

Course provides an opportunity to apply concepts in physical geography, including map interpretation, computer GIS, meteorological processes, development of landforms and an understanding of the dynamics of the earth. Prerequisite: GEOG 103, which may be taken concurrently.

GEOG 106 World Geography 3 (3,0,0,0)

An analysis of the cultural regions of the world; physical settings, peoples, settlements, economic activities and historical and political factors.

GEOG 109 Economic Geography 3 (3,0,0,0)

Emphasizes worldwide patterns of economic activity. World population, food and development problems, natural and economic factors related to economic activity, study of selected agricultural and industrial commodities.

GEOG 116 Oceanography 3 (3,0,0,0)

In this course we will explore our world's oceans and the role of the ocean in the Earth's system. Topics covered will include the flow and transformations of water and energy into and out of the ocean, the physical and chemical properties of seawater, ocean circulation, marine life and its adaptations, interactions between the ocean and the other components of the Earth system, and the human/societal impacts on and in response to Earth's System interactions.

**GEOG 117 Meteorology/
Climatology 3 (3,0,0,0)**

Studies the composition, structure, and dynamics of the earth's atmosphere that influences global weather patterns. Meteorology defines weather concepts that provide the basis for forecasting, weather analysis and understanding atmospheric phenomena such as hurricanes, tornadoes and extreme weather. Discussion on human impact of the atmosphere, ozone depletion, greenhouse effect and air pollution.

**GEOG 299 Selected Topics in
Physical Geography 1-6 (0,3-18,0,0)**

Covers selected topics of interest to students in physical geography. Prerequisite: GEOG 101 or instructor approval.

Geology

**GEOL 100 Earthquakes, Volcanoes
and Natural Disasters 3 (3,0,0,0)**

Causes of natural disasters and their impact on people and property. Focuses on geological hazards such as earthquakes, volcanic eruptions, landslides, and floods.

**GEOL 101 Geology:
Exploring Planet Earth 4 (3,3,0,0)**

Fundamentals of geology including mineral and rock origins through various earth processes. Laboratories include rock identification and interpretation of topographic and geologic maps. Required weekend field trips.

**GEOL 102 Earth and Life
Through Time 4 (3,3,0,0)**

The history of Earth through geological time including methods used to recognize fossils and their significance. Laboratories involve paleontology methods, maps and fossil studies. Required weekend field trips. Prerequisite: GEOL 101 (with lab) or equivalent.

**GEOL 103 Physical Geology
Laboratory 1 (0,1,0,0)**

Designed to introduce basic techniques in identification of minerals and rocks, and in the reading and interpretation of topographic and geologic maps. Includes some field exercises. Prerequisite or Corequisite: GEOL 101.

**GEOL 105 Introduction to Geology
of National Parks 3 (3,3,0,0)**

Geology of selected national parks and monuments in North America with emphasis on surface processes including the causes and effects of Pleistocene glaciation and major tectonic events that have shaped the topography of the United States and Canada.

GEOL 115 Introduction to Gemology 3 (3,0,0,0)

An introduction to the nature, formation, description, identification, fashioning, and uses of gemstones, including a survey of the major groups of natural gemstones as well as synthetics. Covers basic terminology, the processes by which gem species can be discriminated from each other, fundamental chemical and physical principles, and the scientific method.

GEOL 299 Special Topics in Geology 1-5 (0,3-15,0,0)

Covers selected topics of interest to students in the geological sciences. Prerequisite: GEOL 101 or instructor approval.

German

GER 101B Conversational German I 3 (3,0,0,0)

A course emphasizing spoken communication. Speaking, listening, reading and writing skills explored. German culture also emphasized.

GER 102B Conversational German II 3 (3,0,0,0)

A course emphasizing a continuation of the skills acquired in GER 101B. Increased fluency and further vocabulary development stressed.

GER 107 German for Hotel, Restaurant and Tourism I 3 (3,0,0,0)

Students with no prior knowledge of German who work in hotels, restaurants, or tourist settings learn to communicate effectively with their German-speaking clientele.

GER 111 First Year German I 4 (4,0,0,0)

The development of language skills in listening, speaking, reading, and writing. Emphasis is placed on communication in all four language acquisition skills.

GER 112 First Year German II 4 (4,0,0,0)

The further development of language skills in listening, speaking, reading, and writing. Emphasis is placed on more sophisticated communication in all four language acquisition skills. Prerequisite: GER 111 or equivalent.

GER 207 German for Hotel, Restaurant and Tourism II 2 (2,0,0,0)

Students with previous knowledge of German in the area of hotel, restaurant and tourism increase their communication skills in their respective employment fields. Prerequisite: GER 107.

GER 211 Second Year German I 3 (3,0,0,0)

Continuation of German language skills and intensive review of grammatical structures, listening, speaking, reading and writing skills through an introduction to German literary readings. Prerequisite: GER 112 or equivalent.

GER 212 Second Year German II 3 (3,0,0,0)

Further amelioration and perfection of grammatical structures, listening, speaking, reading and writing skills through selected German literary readings. Prerequisite: GER 211 or equivalent.

GER 232 German Resistance to the Nazis and Hitler 3 (3,0,0,0)

This course explores the various forms of resistance (religious, communist, union, socialist, military, and political) to National Socialism and Hitler during the Third Reich (1933-1945).

Geographic Information Systems

GIS 109 Introduction to Geographic Information Systems 3 (3,0,0,0)

This class serves as an introduction into Geographic Information Systems (GIS). This course covers the basic concepts of a GIS. Principles of cartography and spatial analysis will also be covered. The intent of this class is to prepare the student for advanced training using specific GIS software packages. Prerequisite: IS 100B or IS 101.

GIS 111 Introduction to Remote Sensing 3 (3,0,0,0)

This class is designed to give students an introduction to basic remote sensing aerial photograph interpretation, satellite image processing. Students will learn the basic concepts and techniques of remote sensing and integration of remote sensing into GIS database. Prerequisite: GIS 109.

GIS 115 Principles of Geodesy 3 (3,0,0,0)

Items covered in this course will include: basic concepts of geodetic datums, coordinate systems, ellipsoids, satellite geodesy, theoretical and practical aspects of Global Positioning Systems (GPS). Students will also be introduced to concepts of projections and projecting the earth's surface to a plane. Prerequisite: GIS 109.

GIS 205 GIS Applications 3 (3,0,0,0)

The course is designed to give students an exposure to GIS software and its applications. Students will become familiar with the basic aspects of ESRI and ArcGIS Software with introduction to spatial analysis. Prerequisite: GIS 109.

GIS 214B Customizing ArcGIS Using .NET Framework 3 (3,0,0,0)

This course will introduce students to programming concepts in ArcGIS within ArcObjects environment. Students will learn to customize ArcGIS Desktop and integrate ArcObjects using Visual Studio .NET and geoprocessing tools. Prerequisites: IS 115 (or other programming experience) and GIS 109.

GIS 236 GIS Applications II 3 (3,0,0,0)

This is an advanced course designed to give students an in-depth understanding of spatial analysis. Students will functionally create spatial models to solve real world problems. Topics will emphasize problem solving skills in raster and vector environments using spatial analysis tools.

GRC 158 Cartooning 3 (2,2,0,0)

Cartooning characters, newspaper comics, editorials, caricatures, and mascots denoting humorous people and situations.

GRC 161 Advertising Design I 3 (2,2,0,0)

Introduction to basic layout and design principles and concepts, applied to advertising. Creative evaluation of marketing strategies, conceptual thinking, and use of color and design is stressed. Hands-on, problem-solving approach involving logo development, typographical design, story boarding, print and billboard ads. Various graphic techniques explored. Prerequisite: GRC 104.

GRC 165B Electronic Painting 3 (2,2,0,0)

Using professional painting software as a professional tool to create advanced bitmapped artwork used as textures, backgrounds and images in game and educational CDs, web pages, 3D animation, and print productions. Prerequisite: GRC 103.

GRC 173B Digital Photo Retouching 2 (1,2,0,0)

Hands-on projects to master the techniques necessary to retouch photographs using Photoshop, including colorizing B&W, fixing focus, removing scratches, adjusting contrast and color. Prerequisite: GRC 103.

**GRC 175B Web Design
and Publishing I 3 (2,2,0,0)**

Creating and managing web pages and sites using Dreamweaver software. Emphasis on the design, usability, and features of professional web page layout and site production process. Prerequisite: GRC 103.

**GRC 179 Multimedia Design
and Production I 3 (2,2,0,0)**

Overview of Multimedia design and development. Emphasis on how to design real world interactive projects that combine text, graphics, animation, audio, video, and more. Hands-on projects using popular multimedia authoring software for publishing to CD, DVD, and the Web. Prerequisite: GRC 119.

GRC 183B Electronic Imaging I 3 (2,2,0,0)

Scanning and working with photographic and illustrative images using Adobe Photoshop. Hands-on projects dealing with photo correction, manipulation, compositing, and illustrative design explore the tools and basic features of this industry-leading image manipulation application. Prerequisite: GRC 103.

GRC 185 Computer Animation I 3 (2,2,0,0)

Beginning 3D animation for multimedia, including modeling, lighting, rendering, and project management. Emphasis on creating content for multimedia, importing 3D files into common authoring programs and publishing to the Web. Prerequisite: GRC 119.

**GRC 188 Web Animation
and Interactivity I 3 (2,2,0,0)**

Creating and publishing vector-based web Animations using the Flash authoring program. Students create web viewable Flash movies that combine bitmap and vector graphics, audio, animations, and scripting.

**GRC 191B JavaScript Applications
for Designers 3 (2,2,0,0)**

Overview of popular JavaScript applications being used in Web Design. JavaScript the most popular client side scripting language in Web Development will be discussed. Students complete hands-on projects for non-programmers, learning to implement powerful visualizations and interactions.

**GRC 192B Flash Action Script
for Designers 3 (2,2,0,0)**

Continued exploration of Flash using ActionScript. Hands-on projects using popular ActionScript techniques for Flash Designers. Students become more experienced in ActionScript, Flash's internal scripting language. Prerequisite: GRC 188.

GRC 207 Electronic Design 3 (2,2,0,0)

Basic design concepts, principles, and methodology for effective visual communications in print and multimedia. Class projects involve using the computer exclusively as the tool for preparing design materials and/or as the final medium. Prerequisites: GRC 104, 107, 119.

GRC 228B 3D Electronic Design 3 (2,2,0,0)

Explores the design concepts and process related to creating effective 3D digital images and scenes. Class projects involve using 3D software for preparing design materials for print, multimedia, and animation. Prerequisites: GRC 107, 119.

GRC 229 Advanced Typography 3 (2,2,0,0)

Study of typography's informative, expressive, and experimental potential. Hands-on projects, using the computer as a design tool, include typesetting, designing with type, and creating special type effects. Students learn both technical and creative ways type can be crafted. Prerequisites: GRC 104, 107.

GRC 256B Computer Illustration II 3 (2,2,0,0)

Advanced illustration techniques on Macintosh computers with emphasis on special projects and graphic solutions using Illustrator. Prerequisite: GRC 156B.

GRC 264B Advanced Illustration 3 (2,2,0,0)

A continuation of Rendering and illustration. Emphasis is placed on developing problem solving strategies for the individual interested in the field of illustration. Various medium will be explored including: water medium, colored pencil and electronic media. Effective use of color in illustration will be an important aspect of the course. Prerequisite: GRC 110.

GRC 271 Advertising Design II 3 (2,2,0,0)

Continuation of Advertising Design I principles, methods, components, materials and media of advertising design. Recommended for those seeking to specialize as a graphic designer. Prerequisite: GRC 161.

GRC 275B Web Design and Publishing II 3 (2,2,0,0)

Intermediate to advanced techniques for creating web sites using XHTML, CSS, and Dreamweaver. Emphasis on design and usability to produce real world projects demonstrating the site production process, project management, Web Design, popular CSS techniques, search engine optimization, and more. Prerequisite: GRC 175B.

GRC 276B Web Design and Publishing III 3 (2,2,0,0)

Development of advanced professional web sites, using popular web scripting technologies, using PHP, MySQL and JavaScript to create dynamic web sites. Advanced technologies will be discussed as well as an overview of industry trends related to web development. Prerequisite: GRC 275B

GRC 278B Electronic Prepress 3 (2,2,0,0)

Creating, preparing, and managing desktop files to assure that they correctly output. Includes electronic stripping, art preparation, advanced type handling and scanning, color management, separations, and pagination. Prerequisites: GRC 140, 156B.

GRC 279B Multimedia Design and Production II 3 (2,2,0,0)

Intermediate and advanced multimedia design and development using popular multimedia authoring software. Emphasis on design, interactivity, usability, and scripting to produce highly engaging projects for publishing to CD, DVD, and the Web. Prerequisite: GRC 179.

GRC 283B Electronic Imaging II 3 (2,2,0,0)

Advanced techniques working with both photographic and illustrative images in B&W and color, using Photoshop and related third-party software. Prerequisite: GRC 183B.

GRC 286B Digital Video Post-Production 3 (2,2,0,0)

Creating and publishing motion graphics using popular video post production software. Students learn to author motion graphics combining graphics, text, animation, audio, video and more. Students create and publish highly visual programs usable with digital video, common authoring programs, and the web. Prerequisite: PHO 220B.

GRC 288B Web Animation and Interactivity II 3 (2,2,0,0)

Intermediate and advanced Flash techniques with an emphasis on ActionScript, importing and using video, and producing highly interactive projects for the Web. Prerequisite: GRC 188.

GRC 289B Special Projects in Graphic Communications 1-3 (0,0,0,5-15)

Students work on individual design and communications projects under the direction of a faculty advisor; projects, provided by real world businesses and organizations, relate to the student's selected major emphasis. Prerequisite: 21 GRC course credits.

GRC 290 Internship in Graphic Communications 1-8 (0,0,0,5-40)

Supervised work experience within a selected graphic communications firm, dependent upon student's major emphasis. Designed by company official and faculty advisor to apply knowledge to on-the-job situation. Available to students entering their last semester of instruction for degree. Contact department for applications, screening and required skills evaluation.

GRC 293B Job Preparation for Graphic Communications 3 (2,2,0,0)

Students will be required to learn job application skills and interview for employment. Includes field trips to sites in the design/graphics industry. Prerequisite: 15 hours of GRC credits.

GRC 294B Portfolio Workshop 1-3 (0.5-1.5,1-3,0,0)

Development of a customized, professional portfolio of the student's work for prospective clients and employers. Prerequisite: 15 hours of GRC credits

Greek**GRE 111 First Year Modern Greek I 4 (4,0,0,0)**

A course emphasizing the development of language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language skills.

Health and Human Performance**HHP 110B Introduction to the Health Professions 3 (3,0,0,0)**

This course is designed to provide the student with a survey of the various health careers and subject matter involving the health field today.

HHP 123B Introduction to the Human Body 4 (4,0,0,0)

Introductory study of the structural and functional characteristics of the human body and their relationships to health and disease.

HHP 124B Introduction to the Human Body Computer Lab 1 (0,2,0,0)

A computer-based laboratory course designed to complement instruction in HHP 123B. Students required to take the lab must do so concurrently with HHP 123B.

HHP 150 Living Healthy and Well 3 (3,0,0,0)

This course is a study of healthy living principles as they apply to adult life. Emphasis is placed on the recognition of individual decisions that affect one's overall health.

HHP 190 Exercise, Nutrition and Weight Control 3 (3,0,0,0)

A basic overview of principles of fitness as they apply to exercise and good nutrition. Emphasis will be placed on the practical application of sound exercise and eating habits and the development of a personalized fitness program. This course is designed for the average person who wishes to gain the knowledge necessary for improved health.

HHP 201B Stress Management 2 (2,0,0,0)

An overview of stress, its manifestations, and methods of managing it. Particular emphasis will be placed on the role of exercise in controlling stress and the development of a balanced life-style.

HHP 203B Sports Nutrition 3 (3,0,0,0)

A course designed for the fitness professional that explores the link between nutrition, energy metabolism, and exercise. Optimizing exercise performance and making prudent decisions in the nutrition marketplace will be discussed.

HHP 206B Prevention and Care of Exercise Injuries 2 (2,0,0,0)

Overview of safety and injury management for the fitness professional. Includes injury prevention, safe use of exercise equipment, contraindicated exercise, facility safety requirements and liability issues.

HHP 213 Healthy Aging 4 (4,0,0,0)

A course designed to address the factors affecting the health and fitness status of an individual as that person progresses from early to late adulthood. Recognition and prevention of health and personal fitness problems will be emphasized.

HHP 227B Topics in Alternative Medicine 1 (1,0,0,0)

An examination of modern definitions of health; a comparison of traditional and alternative health care; an overview of alternative choices; trends in health care. May be repeated up to a maximum of three credits.

HHP 291 First Aid 2 (2,0,0,0)

Study of various emergency medical problems and their management by application of basic First Aid and Cardiopulmonary Resuscitation.

History

HIST 101 U.S. History I 3 (3,0,0,0)

A survey of United States political, social, economic, diplomatic, and cultural development from colonial times to 1877. Satisfies the United States Constitution requirement. History 101 and 102 need not be taken in sequence; either class may be taken alone. Prerequisite: C or better in ENG 100, 101, 101H, or 113.

HIST 101H U.S. History I - Honors 3 (3,0,0,0)

An honors level survey of United States political, social, economic, diplomatic, and cultural development from colonial times to 1877. This course emphasizes interactive and independent learning through readings, discussion, and writing. Satisfies the United States Constitution requirement. History 101H and 102H need not be taken in sequence; either class may be taken alone. Prerequisites: ENG 100, 101, 101H, or 113 and admission to the Honors program.

HIST 102 U.S. History II 3 (3,0,0,0)

A survey of United States political, social, economic, diplomatic, and cultural development from 1877 to present. Satisfies the Nevada Constitution requirement. History 101 and 102 need not be taken in sequence; either class may be taken alone. Prerequisite: C or better in ENG 100, 101, 101H, or 113.

HIST 102H U.S. History II - Honors 3 (3,0,0,0)

An honors level survey of United States political, social, economic, diplomatic, and cultural development from 1877 to present. This course emphasizes interactive and independent learning through readings, discussion, and writing. Satisfies the Nevada Constitution requirement. HIST 101H and 102H need not be taken in sequence; either class may be taken alone. Prerequisites: ENG 100, 101, 101H, or 113 and admission to the Honors program.

HIST 105 European Civilization to 1648 3 (3,0,0,0)

A survey of the development of Western civilization from the dawn of history to 1648.

HIST 106 European Civilization Since 1648 3 (3,0,0,0)

A survey of the development of Western civilization from 1648 to the present.

HIST 107 Women in American History 3 (3,0,0,0)

A study of the role of women in the creation of America. Includes a look at legal status, life style and the unique status of minority women.

HIST 111 Survey of American Constitution History 3 (3,0,0,0)

Origins and history of the United States Constitution; surveys the development of American judicial interpretations and institutions. Satisfies the U.S. Constitutions requirement.

HIST 150 Introduction to Chinese Civilization 3 (3,0,0,0)

An introductory survey of the growth and development of Chinese civilization with an emphasis on philosophy, literature, society and political development from 2200 B.C. to the present.

HIST 151 Introduction to Japanese Civilization 3 (3,0,0,0)

An introductory survey of the growth and development of Japanese civilization with an emphasis on philosophy, literature, society and political development from 8000 B.C. to the present.

HIST 202 American Military History 3 (3,0,0,0)

U.S. military history from the colonial period onward emphasizing war strategies, military thought, and policy in the armed forces and American society.

HIST 208 World History I 3 (3,0,0,0)

A survey of the societies and cultures of Asia, Africa, the Middle East, Europe, the Americas, and Oceania to 1600.

HIST 209 World History II 3 (3,0,0,0)

A review of the principal developments in world history since 1600, including scientific and technological revolutions, social revolutions, nationalism, immigration, colonialism, world wars, decolonization, modernization, democracy, and dictatorships.

HIST 210 Southwest Heritage 3 (3,0,0,0)

A study of the American Southwest and its cultures placed in historical perspective.

HIST 217 Nevada History 3 (3,0,0,0)

A study of Nevada from early exploration to the present. Satisfies the Nevada Constitution requirement. Prerequisite: C or better in ENG 100, 101, 101H, or 113.

HIST 217H Nevada History - Honors 3 (3,0,0,0)

An honors level survey of Nevada from early exploration to the present. This course emphasizes interactive and independent learning through readings, discussion, and writing. Satisfies the Nevada Constitution requirement. Prerequisites: ENG 100, 101, 101H, 113 and admission to the Honors program.

HIST 220 History of Las Vegas 3 (3,0,0,0)

An introduction to Las Vegas from prehistoric times to the present, emphasizing recent developments.

HIST 222 Terrorism and Political Violence 4 (4,0,0,0)

This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, "What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and is in no position to redress the perpetrator's grievances?" The course approaches the issue from four different academic perspectives: history, psychology, sociology, and political science. (Same as PSC 222, PSY 222, or SOC 222.)

HIST 227 Introduction to Latin American History and Culture I 3 (3,0,0,0)

Survey of the development of Spain and Portugal as colonizing powers, the discovery and conquest of America, and the growth of political, social, and economic institutions during the Colonial Period.

HIST 228 Introduction to Latin American History and Culture II 3 (3,0,0,0)

Survey of Latin American independence movements, the major Latin American republics, and Latin American indigenous history and culture

HIST 247 History of the Mexican Nation 3 (3,0,0,0)

An introduction to pre-Columbian Mexico, Colonial New Spain and Mexican National History to the present.

HIST 250 Introduction to the Study of History 3 (3,0,0,0)

Introduction to the research methods commonly used by historians. Practical application of these methods to everyday life is emphasized.

HIST 251 Historical Investigation 3 (3,0,0,0)

Introduction to the basic concepts and techniques of historical investigation and writing. This course is writing intensive and is intended for students majoring in history or related disciplines. Prerequisite: Permission of department chair.

HIST 260 Introduction to Native American History 3 (3,0,0,0)

An examination of significant events and trends in Native American life. The course will focus on the contributions made by American Indians to the development of our history and contemporary society.

HIST 275 The Wild West - Myth and Reality 3 (3,0,0,0)

Designed to acquaint the student with the history of the American West, the course will typically examine and compare the often romanticized themes of early novels and Hollywood films with the harsh reality of frontier life. The topics that may be examined include the Spanish Southwest, the fur trapping mountain men, the Indians and the army, outlaws, the mining men, cattle, timber, and farming frontiers, and the introduction of capitalism and large scale industrialization.

HIST 280 History of American Immigration 3 (3,0,0,0)

A study of why people came to the United States, how they established a new life and what contributions they made to the development of the United States.

HIST 285 History of Witchcraft 3 (3,0,0,0)

The study of the figure of the witch from ancient times to the present, and the historical, religious and social context from which it emerged. The course includes Paleolithic and Neolithic religion, witches in ancient cultures, formulation of the Christian witch concept, the witch hunt in Early Modern Europe and in the British North American colonies, and modern neo pagan witchcraft. (Same as WMST 285.)

HIST 286 Goddess Traditions 3 (3,0,0,0)

A study of goddess images in a variety of cultures from prehistory to the modern age including the history, values, beliefs, practices and ethics systems associated with goddess imagery. (Same as WMST 286.)

HIST 293 The African American Experience 3 (3,0,0,0)

Survey of the history of African Americans from their origins on the west coast of Africa to the present.

HIST 295 Topical Issues in History 1-3 (1-3,0,0,0)

Study of a selected issue or topic of significance in history. The particular topic will vary, however, the intent of the study will be to develop an awareness of and appreciation for the complex forces which have shaped the modern world. Material for the study will be drawn from a wide variety of sources and may be interdisciplinary in nature. The course may be repeated up to a total of six credits, with the permission of the department chair. Prerequisite: Permission of the department chair.

HIST 299 Internship 3 (2,0,0,6)

Supervised work experience with selected community businesses. Complete 30 credit hours, minimum 2.5 GPA. Prerequisites: Department chair approval, 15 HIST credits including HIST 101, 102, 217.

Health Information Technology

HIT 102B Coding for Medical Offices 2 (1,3,0,0)

Introduction to ICD and CPT coding as they relate to the medical office setting. Corequisite: HIT 118B.

HIT 103B Customer Service Skills in a Healthcare Setting 1 (1,0,0,0)

Designed to develop and practice customer service skills as needed in a healthcare setting.

HIT 105B Healthcare Delivery Systems 2 (2,0,0,0)

An introduction to the organization and functioning of the healthcare delivery system. Professional, legal, and ethical aspects of the health occupations. Prevention, community health needs, psychosocial factors in healthcare, and community agencies.

HIT 106B Healthcare Reimbursement 2 (2,0,0,0)

An introduction to the complex financial and reimbursement systems of the healthcare environment. This course includes the basics of health insurance, public funding programs, managed care contracting, and how services are paid.

HIT 107B Patient Registration Practicum 2 (0,0,10,0)

Provides the student with practical experience in performing patient registration duties. The practicum assignments are eighty (80) hours in a hospital admitting department. Grades assigned on a pass/fail basis. Students must attend a mandatory orientation. Corequisite: HIT 106B.

HIT 108B Interpersonal Communication Skills in the Health Care Setting 3 (3,0,0,0)

Designed for the development and practice of a set of interpersonal and human relation skills as needed among health care providers.

HIT 117B Medical Terminology I 1 (1,0,0,0)

Study of word derivations and formation with emphasis upon understanding common usage in the field of health care.

HIT 118B Language of Medicine 3 (3,0,0,0)

Application of medical language by body system and appropriate use within the accepted nomenclature and classification systems. This course is designed to meet professional program requirements.

HIT 119B Introduction to Pharmacology and Laboratory Tests 2 (2,0,0,0)

Advanced application of medical language specific to clinical specialties inclusive of pharmacology, laboratory, and diagnostic testing. Mathematical calculation is used to solve medication dosage problems and to convert between different systems of measurement. Prerequisite: HIT 118B.

HIT 120B Medical Transcription I 4 (2,6,0,0)

Basic medical transcription skills. Corequisites: HIT 118B, ENG 100 or ENG 101 or satisfactory performance on English placement test and COT 200.

HIT 122B Medical Transcription II 5 (1,6,6,0)

Advanced medical transcription skills. Prerequisite: Instructor permission. Grades assigned on a Pass/Fail basis.

HIT 130B Procedural Terminology 1 (1,0,0,0)

In-depth study of medical terminology used in the procedural coding classification system. Analysis of standardized vocabulary of surgical concepts, body part terms, operative approaches, devices and other qualifiers from which codes are built. Prerequisite: HIT 118B.

HIT 165B Pathophysiology 4 (4,0,0,0)

Introduction to concept of disease process in specific body systems. Prerequisite: BIOL 223 or HHP 123B.

HIT 170B Healthcare Computer Applications 3 (2,3,0,0)

This course develops students' knowledge and skills in hardware and software components of computers for health-care applications. The students will also explore methods of controlling the accuracy and security of data in computer systems, record linkage and data sharing concepts, and information systems in healthcare. Prerequisites: COT 127B, HIT 180B.

HIT 180B Introduction to Health Information Management 2 (1,3,0,0)

Introduction to Health Information Management procedures including professional ethics and processes to assure quality health care through quality information. Prerequisites: HIT 105B, 118B.

HIT 184B Introduction to ICD Coding 2 (1,3,0,0)

Introduction to the mechanics of using the ICD diagnostic coding system. Analysis of the organization and classification of all chapters, evaluation of coding guidelines, and documentation guidelines. Prerequisites: HHP 123B, 124B, HIT 118B, 130B, 165B.

HIT 185B Introduction to CPT Coding 3 (2,3,0,0)

Introduction to outpatient and physician procedural coding. The student will be introduced to CMS's HCPCS two-level coding system, including basic coding guidelines and practice using CPT-4. Prerequisites: HHP 123B, 124B, HIT 118B, 165B.

HIT 186B Advanced Outpatient Coding 2 (1,3,0,0)

This course is designed to be an intermediate study and practice of coding systems utilized in outpatient healthcare facilities. Using ICD diagnostic codes, CPT, HCPCS Level II codebooks, and automated encoders, the student will be provided with knowledge and opportunities to further develop skills acquired in basic coding classes. Prerequisites: HIT 119B, 165B, 180B, 184B, 185B.

HIT 187B Introduction to ICD-PCS Coding 2 (1,3,0,0)

Introduction to the mechanics of using the ICD procedural coding system (PCS). Analysis of the seven character structure, the organization and classification within all sections, evaluation of coding guidelines, and documentation guidelines. Prerequisites: HHP 123B, 124B, HIT 118B, 130B, 165B.

HIT 201B Advanced Coding Systems 3 (2,3,0,0)

In-depth practice in assigning diagnostic and procedure codes according to ICD. Prerequisites: HIT 184B, 185B, 187B.

HIT 205B Privacy, Legal, and Ethical Issues in Healthcare 2 (1,3,0,0)

In-depth study of patient privacy and confidentiality of health information. Review of legal responsibilities of healthcare workers and facilities with emphasis on HIM. Health professional ethics issues are discussed and evaluated.

HIT 206B Professional Practice Experience I 3 (0,0,10,0)

Practical experience in the acute care setting performing Health Information Departmental duties. Corequisite: HIT 205B. Grades assigned on a Pass/Fail basis.

HIT 207B Health Information Management 2 (1,3,0,0)

Study of Organizational Resources with emphasis on Human Resources, Financial Resources, and Physical Resources as related to Health Information Management. Prerequisite: Acceptance into HIT Program.

HIT 208B Professional Practice Experience II 2 (0,0,6,0)

Management and practical experience in specialized care settings. Prerequisite: HIT 206B. Grades assigned on a Pass/Fail basis.

HIT 210B Coding Practice Experience 3 (0,0,12,0)

Practical coding experience in a variety of health care settings. Corequisite: HIT 201B. Grades assigned on a Pass/Fail basis.

HIT 240B Healthcare Statistics and Research 1 (1,0,0,0)

Computation and interpretation of healthcare statistics. Introduction to knowledge based research techniques and guidelines regarding research and IRB processes. Prerequisite: Instructor permission.

HIT 245B Healthcare Quality Management 2 (1,3,0,0)

Methodologies for conducting quality improvement activities including collecting, organizing and presenting data. Prerequisite: Instructor permission.

HIT 290B RHIT Exam Prep 2 (2,0,0,0)

This course is a review of HIM topics covered in the HIT Program. It is designed to prepare students for the national certification examination. Grades assigned on a Pass/Fail basis. Prerequisite: Instructor approval.

HIT 291B Coding Exam Prep 2 (2,0,0,0)

This course is a review of coding topics covered in the Medical Coding Program. It is designed to prepare students for the national coding certification examination. Grades assigned on a Pass/Fail basis. Prerequisite: Instructor approval.

HIT 299B Selected Topics in Health Information Technology 2 (0,0,0,2)

Covers selected topics of interest to students of health information technology. Grades assigned on Pass/Fail basis. Prerequisite: Instructor permission.

Hotel Management

HMD 101 Introduction to the Hospitality Industry 3 (3,0,0,0)

Survey of the history, likely direction, and dynamics of the hospitality industry from the perspective of the global economy, with emphasis on the wide variety of career opportunities.

HMD 103 Introduction to the Lodging Industry 3 (3,0,0,0)

Detailed presentation of lodging operations management in specific areas including front-office operations, housekeeping and sanitation, food and beverage, and facility operations, including risk management/security, accounting/financial operations, and hospitality services. In addition to the hotel and lodging industry, other topical areas also include vacation ownership (time-share) industry, casino and resort industry. Prerequisite: HMD 101.

HMD 202 Housekeeping Operations 3 (3,0,0,0)

Application of various systems, procedures, and controls associated with a modern hotel or hospital housekeeping department. Emphasis on management delegation, scheduling, systems, routines, and equipment. Laundry operations and hotel recreation departments also reviewed.

HMD 203 Front-Office Operations 3 (3,0,0,0)

Study of front-office procedures from reservations through check-out including the night audit and the property management system and their impacts on other lodging operations. Special emphasis placed on guest-employee relations. Prerequisites: HMD 101 and ENG 100, or 101, or 113.

HMD 226 Industry Computer Applications for Hospitality and Tourism 3 (3,0,0,0)

Survey of computer applications, issues, and trends in the hospitality industry. Emphasis placed on the role of technology in operations and management of technology as a strategy. Prerequisite: HMD 101.

HMD 235 Hotel, Restaurant and Gaming Law 3 (3,0,0,0)

Legal aspects of the innkeeper/guest relationship with particular attention to personal liability, property liability, labor law, crimes, torts, evictions, negligence, administrative agencies and gaming regulations.

HMD 253 Hospitality Services Management 3 (3,0,0,0)

Exploration of how services are different from goods, service procedures for various functional areas of hospitality, and how key factors contribute to service quality and guest satisfaction in services. Prerequisites: HMD 101 and ENG 102 or 114.

HMD 259 Human Resources Management in the Hospitality Industry 3 (3,0,0,0)

Recruitment, selection, compensation, training, and performance appraisal of employees and managers in the hospitality industry's culturally diverse work place. Prerequisites: HMD 101 and ENG 100, or 101, or 113.

HMD 295 Work Experience in Lodging Operations 1 (0,0,0,1)

In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV's 1000 hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to maximum of four credits. Grade will be given upon verification of employment.

Human Services

HMS 101B Introduction to Human Services 3 (3,0,0,0)

An introductory course identifying the multifold programs and activities of social welfare and helping services and their key role in modern society; observation and reporting techniques emphasized.

HMS 102B Introduction to Counseling 3 (3,0,0,0)

Designed to provide an overview of the historical, philosophical and theoretical foundations of counseling. Students will examine the counselor as a person and explore the role of self-awareness in the field of counseling.

HMS 103B Creative Self Awareness 3 (3,0,0,0)

Course includes clarifying values, setting goals, exploring self, expanding options, overcoming barriers, working effectively, enhancing relations, planning and decision making.

HMS 104B Small Group Interaction Techniques 3 (3,0,0,0)

Introduces the student to the theories and techniques which relate to working with individuals. Personality theories presented in terms of their applicability to change processes.

HMS 106B Human Services Practicum I 3 (0,0,0,8)

Human Services work experience. The student works in a helping services facility eight hours a week under the supervision of a facility employee to gain practical work experience. Prerequisites: HMS 102B, 103B, 130, 265B.

HMS 107B Community Resources in Human Services 3 (3,0,0,0)

A course designed to acquaint the student with resources available for substance abuse programs.

HMS 116B Substance Abuse 3 (3,0,0,0)

Explores the emergence of substance abuse as a sociological and cultural phenomenon in the United States. Identifies the development in legal policy, social history and the treatment and research dimensions.

HMS 130 Human Sexuality 3 (3,0,0,0)

Designed to provide each student with the necessary biological, historical, psychological and sociological perspective for personal positive changes. Provides a forum for discussion on issues of common concern.

HMS 135B Cross Cultural Relations 3 (3,0,0,0)

A study of American Ethnic groups within contemporary American society. A practical "road map" leading to an overall picture of the complexity of the problems facing the United States society in attempting to alleviate the continuing social problems of cultural ethnic relations.

HMS 152B Divorce Adjustment 3 (3,0,0,0)

Designed to help people adjust to divorce and build their new life styles and systems in a positive creative way.

HMS 206B Human Services Practicum II 3 (0,0,0,8)

Human Services work experience. The student works in a helping services facility eight hours a week under the supervision of a facility employee to gain practical work experience. Prerequisite: HMS 106B.

HMS 265B Death and Dying 3 (3,0,0,0)

Designed to provide the student with the necessary information to both understand and cope with the social processes of dying, death and bereavement from an academic as well as a personal perspective.

HMS 266B Mind/Body Health 3 (3,0,0,0)

This class explores the many approaches to healing and maintaining wellness of the mind, body and spirit. Lectures, guest teachers and videos will be used in this interesting experiential class.

HMS 267B Solutions for Stress 3 (3,0,0,0)

This course deals with how stress affects health and quality of life and will be complimented by addressing methods of coping with stress in all areas of life. Exercise, nutrition, interpersonal skills and Eastern and Western forms of relaxation will be addressed.

HMS 268B Developing Self-Esteem 3 (3,0,0,0)

This course will help students enrich their lives, and increase their happiness. Students will learn how to identify personal problems and how to effectively change their lives for the better. The course includes both group and experiential exercises.

HMS 295B, 296B, 297B, 298B Work Experience I, II, III, IV 1-4 (0,0,0,1-4)

Cooperative Education courses designed to provide the student with on-the-job supervised and educationally directed work experience.

Humanities**HUM 298 Phi Theta Kappa Honors Topic 3 (3,0,0,0)**

The Honors Study Topic course is dedicated to the examination and illumination of the Phi Theta Kappa Honors Study Topic – providing ideas for scholastic enrichment. Open for general registration; may be taken twice for credit.

Insurance**INS 105 Insurance Principles 3 (3,0,0,0)**

Understanding the basic concepts of risk and insurance doctrines. Explore the various areas of family risk management with emphasis in life, health, auto and home risks. Review applicable Nevada Revised Statutes.

INS 110B Life and Health Insurance 3 (3,0,0,0)

The purpose of the course is to satisfy the spirit and letter of NRS 683A and NAC 683A, requiring life and health prelicensing education. General product knowledge, terms, and concepts of life insurance, annuity contracts, and accident and health insurance are covered. Nevada insurance laws and regulations are discussed generally as well as specifically relating to life and health insurance.

INS 210B Property and Liability Insurance 3 (3,0,0,0)

Facts, principles, basic concepts and Nevada statutes covering property and liability insurance. Designed for the person who contemplates engaging in the insurance industry as a professional or for those who desire to understand insurance for making informed business or personal decisions.

Interior Design

INTD 105B History of Furniture and Interiors I 3 (3,0,0,0)

A study of the history of furniture and interiors from antiquity to the 19th Century.

INTD 106B History of Furniture and Interiors II 3 (3,0,0,0)

A study of furniture and interiors from the 19th century to the present. Prerequisite: INTD 105B.

INTD 216 Textiles 3 (2,2,0,0)

Consumer orientation to textiles. Serviceability, concepts of durability, care, comfort and aesthetic appearance are used to evaluate textiles alternatives for various end uses.

INTD 218B Methods and Materials 3 (2,2,0,0)

A study of interior furnishings, materials, processes and applications.

INTD 255B Interior Design Studio I 3 (2,2,0,0)

Application of design concepts of interior spaces. Short exercises precede residential projects. Prerequisites: INTD 210B, 216, 220B.

INTD 257B Interior Design Studio II 3 (2,2,0,0)

Advance problem solving in interior design. Prerequisites: INTD 218B, 220B, 255B.

INTD 258B Business Practices 3 (3,0,0,0)

This course is an overview of interior design business principles and practices. Prerequisite: INTD 255B.

INTD 260B Contract Documents 3 (2,2,0,0)

Working drawing, related schedules, interior specifications, project management. Prerequisites: INTD 220B, 266B.

INTD 262B Interior Design Drawing II 3 (2,2,0,0)

Advanced study of sketching, perspective and rendering techniques focusing on color media. Prerequisite: INTD 210B.

INTD 264B Kitchen Design Studio 3 (2,2,0,0)

Design of residential kitchen. Prerequisites: ADT 100B, INTD 218B.

INTD 266B Building Codes and Standards for Interior Designers 3 (3,0,0,0)

Comprehensive study of major codes, standards and federal regulations affecting the interior design and construction of commercial and residential. Special emphasis on application as it affects the health, safety and welfare of the human user.

INTD 270 Field Experience 1-4 (0,0,0,5-20)

Provides students the opportunity to work in the interior design industry directed by a qualified professional and supervised by the instructor. Maximum of 4 credits. Prerequisite: Instructor permission.

INTD 272B Lighting Theory 3 (2,2,0,0)

Study of lighting design and applications for interior spaces. Prerequisites: ADT 100B, INTD 101B, 115.

INTD 278B Hospitality Design Studio 3 (2,2,0,0)

Design of hospitality spaces such as guestrooms, suites, restaurants, public spaces. Prerequisites: INTD 216, 218B, 220B.

Information Systems

IS 100B Core Computing Competency 0 (0,0,0,0.25)

This course verifies a student's core computing competencies. Knowledge and skills will be tested in the areas of computing fundamentals, key applications, and the Internet at current collegiate/professional levels. Students must pass all required exams to earn an internationally recognized digital literacy certification to pass the course. Students should have strong knowledge and skills in the specified computing areas. Graded Pass/Fail.

IS 101 Introduction to Information Systems 3 (3,0,0,0)

Concepts and applications of Information Systems. Introduction to hardware, software, data, and file concepts. Microcomputer applications software including word processing, spreadsheet, database, Internet, and presentation software.

IS 115 Introduction to Programming 3 (3,0,0,0)

A first course in programming, problem-solving and algorithm development using a modern programming language. Students should have basic computer skills. Prerequisite: MATH 095 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

Italian

ITAL 101B Conversational Italian I 3 (3,0,0,0)

A course emphasizing spoken communication. Speaking skills, oral listening skills, reading and writing skills explored. A vocabulary of Italian-English words developed.

ITAL 102B Conversational Italian II 3 (3,0,0,0)

A course emphasizing a continuation of skills acquired in ITAL 101B. Increased fluency and further vocabulary development stressed. Prerequisite: ITAL 101B.

ITAL 111 First Year Italian I 4 (4,0,0,0)

The development of language skills in listening, speaking, and writing. Oral emphasis.

ITAL 112 First Year Italian II 4 (4,0,0,0)

A second semester course designed to continue and improve the skills learned in ITAL 111. Prerequisite: ITAL 111 or permission of the department.

ITAL 211 Second Year Italian I 3 (3,0,0,0)

Continuation of Italian language skills with intensive review of grammatical structures. Emphasis on speaking, reading and writing skills. Introduction to Italian prose writing. Prerequisite: ITAL 112.

ITAL 212 Second Year Italian II 3 (3,0,0,0)

Continuation of review of grammatical structures. Structured conversation, reading of one novel and writing based on assigned topics. Prerequisite: ITAL 211.

ITAL 221 Italy and Its Culture 3 (3,0,0,0)

Introduction to Italian Culture and its influence on the World Community: a general examination of Italy's physical, historical, political, and administrative identity. An introduction to and assessment of the contributions of its major achievers in various areas of human endeavor: Art, Religion, Science, etc. A glance at Italy's popular culture as reflected in its films and other documents of contemporary daily life. Taught in English, no knowledge of Italian required.

Journalism

JOUR 100 Introduction to Journalism and Media Studies 3 (3,0,0,0)

This required course introduces prospective majors to the pragmatic, performative and presentational aspects of journalism and media studies.

JOUR 101 Critical Analysis of the Mass Media 3 (3,0,0,0)

Analysis of the development of newspapers, magazines, motion pictures, radio, and telecommunications. Overview of institutional structure and theoretical perspectives.

JOUR 102 News Reporting and Writing 3 (3,0,0,0)

Provides fundamental instruction and pre-professional practice in writing as a basis for upper-division courses in journalism and media studies. Analysis of news content and how news is obtained and written. Discussions and laboratory. Prerequisite: ENG 100, 101, or 113.

JOUR 105 News Production I 3 (3,0,0,0)

Introduction to news and features gathering, writing and presentation with practical application demonstrated in production of campus print publications, web pages and electronic programming (e.g. podcasts).

JOUR 121 Radio Production 3 (3,0,0,0)

A study and practical use of radio broadcast equipment, announcing techniques, programming concepts, functions of a disc jockey (DJ), and researching, writing and producing a newscast.

JOUR 201 Television Studio Production I 3 (3,0,0,0)

Study and training in basic television studio production for live or live-to-tape programming. Emphasis on producing and directing with training in various studio, control room, and engineering functions. Students are encouraged to take JOUR 220 either before or while taking this course.

JOUR 202 Electronic Media Production I 3 (3,0,0,0)

Lecture and lab for the study of and training in studio and field video production, basic post-production, and resource utilization across electronic platforms.

JOUR 204 Introduction to Media Production 3 (3,0,0,0)

Introduction to production tools and computer interfaces; emphasis on visual literacy, imaging, video and audio editing, Internet authoring, and creating multimedia documents.

JOUR 210 Introduction to Public Relations 3 (3,0,0,0)

Study of the practice of public relations including media, employee, consumer, community, shareholder, and customer relations. Emphasis is on the history of public relations, its role, and impact on today's society.

JOUR 212 Principles of Advertising 3 (3,0,0,0)

Examination of the purpose, function, and role of advertising in society. Emphasis is on the practical application of advertising as part of the marketing mix including customer identification, branding, message development, and media selection.

JOUR 220 Fundamentals of Applied Media Aesthetics 3 (3,0,0,0)

Survey of the various fields that use visual imagery for communicative purposes. Graphic design, film, and television imagery covered. Emphasis on television and film aesthetics and picture composition.

JOUR 223 Contemporary Radio 3 (3,0,0,0)

Examination of the structure, programming, regulation, and problems of radio in today's world and the role the medium plays in informing and entertaining modern listeners.

JOUR 241 News and the News Media 3 (3,0,0,0)

Survey of the history, purposes, functions, and effects of journalism.

JOUR 261 Introduction to IMC 3 (3,0,0,0)

Examination of the function of advertising and public relations in the media and society. Emphasis on the application of theory and its relationship to the IMC elements; public relations, advertising, promotion, direct marketing, interactive, and their ability to reach customers/publics

JOUR 276 Design Principles of Advertising/Publications 3 (3,0,0,0)

History of design periods and styles. Introduction to five basic types of print advertising: periodicals, direct mail, point of purchase, sales-promotion, and merchandising.

Japanese

JPN 101B Conversational Japanese I 3 (3,0,0,0)

A course emphasizing spoken communication. Speaking skills, oral and listening skills, reading and writing skills explored. A vocabulary of Japanese-English words developed.

JPN 102B Conversational Japanese II 3 (3,0,0,0)

Students will continue to develop speaking, oral and listening skills and vocabulary. Prerequisite: JPN 101B.

JPN 111 First Year Japanese I 4 (4,0,0,0)

The development of language skills in listening, speaking, and writing. Oral emphasis.

JPN 112 First Year Japanese II 4 (4,0,0,0)

A second semester course designed to continue and improve the skills learned in JPN 111. Prerequisite: JPN 111.

JPN 120 Kanji and Japanese Vocabulary I 2 (2,0,0,0)

Elementary level kanji course designed to teach writing of JPN 111 and JPN 112 vocabulary and bring students to the level of passing Kanji Kentei 10-kyu Exam. Prerequisite: JPN 111 or departmental approval.

JPN 121 Kanji and Japanese Vocabulary II 2 (2,0,0,0)

A continuation of Kanji and Japanese Vocabulary I designed to teach kanji at the level of Kanji Kentei 9-kyu Exam and vocabulary that utilizes 240 kanji. Prerequisite: JPN 120 or departmental approval.

JPN 211 Second Year Japanese I 3 (3,0,0,0)

Designed to continue the development of language skills in listening, speaking, reading and writing. Contextual studies. Prerequisite: JPN 112.

JPN 212 Second Year Japanese II 3 (3,0,0,0)

Designed to continue the development of language skills learned in JPN 211. Prerequisite: JPN 211.

Korean

KOR 101B Conversational Korean I 3 (3,0,0,0)

A course emphasizing spoken communication. Speaking skills, oral and listening skills, reading and writing skills explored. A vocabulary of Korean-English words developed.

KOR 102B Conversational Korean II 3 (3,0,0,0)

Students will continue to develop speaking, oral and listening skills and vocabulary. Prerequisite: KOR 101B.

KOR 111 First Year Korean I 4 (4,0,0,0)

The development of language skills in listening, speaking, and writing. Oral emphasis.

KOR 112 First Year Korean II 4 (4,0,0,0)

A second semester course designed to continue and improve the skills learned in KOR 111. Prerequisite: KOR 111.

KOR 211 Second Year Korean I 3 (3,0,0,0)

Designed to continue the development of language skills in listening, speaking, reading, and writing. Contextual studies. Prerequisite: KOR 112.

KOR 212 Second Year Korean II 3 (3,0,0,0)

Designed to continue the development of language skills learned in KOR 211. Prerequisite: KOR 211.

Landscape

LAND 100 Introduction to Landscape Architecture 3 (3,0,0,0)

Exploration of the relationship between landscape design and a range of disciplines, including health, psychology, environmental studies, science, education, engineering, tourism, and sports. Includes a discussion of the design principles which are the basis of design interventions, sample built projects in each area, and social, natural, and technical issues which are commonly addressed.

**LAND 180 Fundamentals of Landscape
Architectural Design I 3 (2,2,0,0)**

Introduction to the principles and theories of design methodology in the “making” and representations of form and space. Focus on two-dimensional representation.

**LAND 182 Fundamentals of Landscape
Architectural Design II 3 (2,2,0,0)**

Continuation of LAND 180, with emphasis on three-dimensional representation. Prerequisite: LAND 180.

LAND 200B Landscape Management 3 (3,1,0,0)

Investigation of best management practices for the installation and care of landscape ornamentals, including annual color plants, herbaceous perennials, shrubs, turf and trees with emphasis upon plant selection, fertilization, irrigation, pest management and pruning.

LAND 214B Irrigation Systems 3 (3,1,0,0)

A survey of the components of irrigation systems, function of components, performance evaluation, scheduling and troubleshooting. Prerequisite: MATH 104B or higher.

**LAND 223B Integrated Pest
Management 3 (3,1,0,0)**

Survey of plant diseases, disorders and pest focused on control strategies that employ best management practices to minimize the use of chemical pesticides. Pesticide law, application equipment and application techniques are included.

LAND 241 Grading and Drainage 3 (2,2,0,0)

Basic skills in site grading techniques, calculation of cut and fill volumes, compaction of soil, run-off coefficients, sizing of drainage structures and pipes, layout of roads, walkways and parking lots.

LAND 242 Irrigation 3 (2,2,0,0)

Introduces basic design of irrigation, fountain and lighting systems. Sizing of components calculated and available products introduced.

**LAND 257 Ornamental Plant
Materials 3 (3,1,0,0)**

Identification, distribution, growth, characteristics, adaptation, and use of ornamental plants. Emphasizes bedding plants, shrubs and trees.

LAND 258 Xeric Plant Materials 3 (3,1,0,0)

Identification, distribution, growth, characteristics, adaptation, and usage of xeric plants. Emphasizes bedding plants, shrubs and trees.

**LAND 262 CAD for
Landscape Architecture 3 (2,2,0,0)**

Beginning application of computer-aided design software, particularly AutoCAD, focusing on the needs of the landscape architect, two-dimensional CAD drawing tools and techniques, complex object creation, information management, and common situations encountered in a professional environment explored. Other CAD software and three-dimensional design techniques also explored.

**LAND 284 Landscape
Architectural Design I 6 (3,6,0,0)**

Elements, principles and theories of landscape design with emphasis on design at the human scale. Prerequisite: LAND 182.

**LAND 286 Landscape
Architectural Design II 6 (3,6,0,0)**

Elements, principles and theories of landscape design with emphasis on design for humans and special populations. Prerequisite: LAND 284.

Latin American Studies**LAS 100 Introduction to
Latina/o Studies 3 (3,0,0,0)**

An introduction to the field of Latina/o Studies through a multidisciplinary approach to provide students an integrated exploration of the complexities of this dynamic population.

**LAS 101 Introduction to
Latin American Studies 3 (3,0,0,0)**

Interdisciplinary introduction to the culture, history, and political economy of contemporary Latin America; examines topics such as colonialism and independence, values and social structures, political institutions, and economic relations in the region; presents an overview of the history and conditions of U.S. Latinos.

**LAS 210 Hispanic Groups
in the United States 3 (3,0,0,0)**

This course studies the Hispanic populations of the United States, focusing especially on the three largest Hispanic groups: Mexicans, Puerto Ricans, and Cubans. The class analyzes and compares how the different Hispanic groups handle reality, immigration, and the processes involved in adapting to life in the U.S.

**LAS 223 Spanish Caribbean
Culture 3 (3,0,0,0)**

This course examines historical, cultural, and social developments of the Spanish Caribbean from pre-Hispanic times to the present. Topics include history, traditions, ethnicity, literature, arts, religion, politics, music, and food. (Same as SPAN 223.)

LAS 224 Mexican Culture 3 (3,0,0,0)

This course focuses on elements that contribute to the formation of the culture and identity of the Mexican nation: history, religion, music, art, food, movies and TV, traditions, celebrations and folklore, social realities, and the relationship with the U.S. Taught in English. (Same as SPAN 224.)

LAS 299 Capstone Class in Latin American Studies 1 (0,0,0,1)

As the last course of special program's requirements, it integrates coursework covered in the Latin American and Latina/o Studies AA degree program and independent work involving reading, writing, and research. Prerequisite: Enrollment by instructor approval only.

Latin

LAT 111 First Year Latin I 4 (4,0,0,0)

A beginning level Latin course emphasizing the development of reading and writing skills and cultural understanding. Emphasis on basic comprehension and communication.

LAT 112 First Year Latin II 4 (4,0,0,0)

A second-semester course of beginning-level Latin emphasizing the development of reading and writing skills and cultural and historical understanding. Emphasis on basic comprehension and communication. Prerequisite: LAT 111.

Law

LAW 101 Fundamentals of Law I 3 (3,0,0,0)

Relationship and delineation of the function and responsibility of the legal assistant, the attorney and the client. Prerequisites: ENG 100 or 101 with a grade of "C" or better and IS 101.

LAW 204 Torts 3 (3,0,0,0)

Students will become familiar with the major torts of negligence, trespass to land, defamation, strict liability, wrongful death and conversion. Prerequisite: LAW 101.

LAW 205 Contracts 3 (3,0,0,0)

Discusses the basic elements of contract law including offer, acceptance, consideration, contractual capacity, legality, defenses to enforcement of contracts, remedies and an introduction to the Uniform Commercial Code. Special emphasis placed on the practical analysis of contracts. Prerequisite: Law 101 or instructor approval.

LAW 231 Civil Procedure 3 (3,0,0,0)

This course emphasizes the court system in Nevada focusing on the internet. Topics include preparing pretrial litigation documents, as well as drafting a complaint, answer, and summons. Prerequisites: LAW 101, 259.

LAW 232 Criminal Procedure 3 (3,0,0,0)

Examines the criminal justice system, including procedures from arrest to final disposition, principles of constitutional, federal, state and local laws as they affect the process in criminal court procedures. Prerequisite: LAW 101.

LAW 234 Civil Procedure II 3 (3,0,0,0)

This course explores the court system in Nevada from the point of preparing for trial to post trial and alternative dispute resolutions, by retrieving rules from Nevada websites and Federal Websites. The students will be preparing documents for trial, including summarizing depositions and medical records. Prerequisite: LAW 231.

LAW 250 Administrative Law 3 (3,0,0,0)

Study of the history of administrative agencies, administrative law procedures, use of expert witnesses, law of evidence, constitutional limitations and judicial review. Prerequisite: LAW 101.

LAW 251 Bankruptcy 3 (3,0,0,0)

Study of expanded jurisdiction, its effects on financial rehabilitation of individuals and corporations; involuntary petitions, preparation of voluntary petitions filing; automatic stay provisions, complaint to vacate stay and abandonment of assets. Prerequisite: LAW 101.

LAW 252 Family Law 3 (3,0,0,0)

The law of family relations, including the following: marriage, annulment, dissolution, divorce, separation, guardianship, adoption, custody and legitimacy of children, parental rights and rights and duties of minors. Prerequisite: LAW 101.

LAW 253 Law Office Management 3 (3,0,0,0)

A study of economical and efficient law office practices and procedures including the proper use of law office technology and computerized data processing. Prerequisite: LAW 101.

LAW 255 Probate Procedures 3 (3,0,0,0)

Law related to estate planning issues. Includes procedure to distribute a person's estate upon one's death, creation and administration of a trust and procedure to appoint another to act on one's behalf. Also includes a discussion of health care documents and related elderly care issues. Prerequisite: LAW 101.

LAW 258 Constitutional Law 3 (3,0,0,0)

This course will introduce the student to the fundamental principles and concepts of American Constitutional Law with specific emphasis on civil rights, liberties and responsibilities. Prerequisite: LAW 101.

LAW 259 Legal Writing 3 (3,0,0,0)

An in-depth study and development of legal writing skills. Introduction to the major forms of legal writing, legal terminology, and the principles for organization of legal memorandums or briefs. Prerequisite: LAW 101 or instructor approval.

LAW 261 Legal Research I 4 (4,0,0,0)

Legal research and terminology, including law library familiarization and development of skills. Emphasis on finding, reading and synthesizing cases and in preparing legal memoranda. Prerequisites: LAW 101, 259.

LAW 262 Legal Research II 4 (4,0,0,0)

In-depth study for developing legal research and writing skills. Subjects presented in Legal Research I will be covered in greater detail using federal, state, and administrative law. Emphasis will be placed upon computer assisted legal research tools such as Westlaw, Lexis, and the Internet. Prerequisite: LAW 261.

LAW 263 Ethics 3 (3,0,0,0)

Covers the relationship between the court, attorney, client and legal assistant. Discusses what a legal assistant may and may not do. Also discusses conflicts of interest, dealing with witnesses and adverse parties and confidentiality.

LAW 264 Civil Evidence 3 (3,0,0,0)

To familiarize the student with the rules and forms of evidence that is admissible in court. Prerequisite: LAW 101.

LAW 295 Supervised Field Experience 3 (0,0,0,8)

Offers legal assistant work experience under the supervision of an attorney. The student will work at a local law firm or agency eight hours per week, for a total of 120 hours to gain practical work experience. The student and law firm/agency will report their experience to the program director. Prerequisites: Completion of 21 LAW credits and Legal Programs Director approval.

Library Skills

LIB 101 Research for College Papers 1 (1,0,0,0)

An overview of basic research strategies using Internet and print resources. Focus is on gathering viable information for college assignments.

Mathematics

MATH 050D Mathematics for the Trades 3 (3,0,0,0)

Course emphasizes solving apprenticeship related applied problems and includes a review of basic mathematics operations, exponents, English and Metric measurement, elementary algebra, scientific notation, plane and solid geometric figures, and triangle trigonometry.

MATH 091 Basic Mathematics 3 (3,0,0,0)

A course in arithmetic. Topics include fractions, decimals, measurements, percents, ratios, and proportions. A comprehensive, proctored, departmental final exam will be given.

MATH 093 Pre-Algebra 3 (3,0,0,0)

A course intended to review arithmetic and to preview elementary algebra. A comprehensive, proctored, departmental final exam will be given. Students must pass this final exam with 60% or better in order to earn at least the grade of C in the course. Prerequisite: MATH 091 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 095 Elementary Algebra 3 (3,0,0,0)

A course in the fundamental operations of real numbers, solving linear equations in one variable, graphing linear equations in two variables, solving linear systems in two variables, and performing basic operations on polynomials. Intended to provide a basic foundation for future mathematics needed in fields of business, economics, engineering and related fields. Strong background in fractions and positive and negative numbers is highly recommended. A comprehensive, proctored, departmental final exam will be given. Prerequisite: MATH 093 or 116 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 096 Intermediate Algebra 3 (3,0,0,0)

Topics include factoring polynomials, rational expressions and equations, radical expressions and equations, quadratic equations, graphs and applications. A comprehensive, proctored, departmental final exam will be given. Prerequisite: MATH 095 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 097 Elementary and Intermediate Algebra 5 (5,0,0,0)

A one-semester course equivalent to the combination of MATH 095 and MATH 096. Topics include solving linear equations in one variable, polynomials, integer exponents, factoring, rational expressions and equations, graphing linear equations in two variable, inequalities, systems of linear equations, radicals and rational exponents, and quadratic equations. A comprehensive, proctored, departmental final exam will be given. Prerequisite: MATH 093 or 116 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 100B Math for Allied Health Programs 3 (3,0,0,0)

A course designed to provide the mathematics skills used in allied health fields. Topics include operations with fractions and decimals, measurement systems, percents, ratios and proportions, drug calculations, and IV flow rates.

MATH 104B Applied Mathematics 3 (3,0,0,0)

Emphasizing applications, topics include arithmetic, algebra, pre-algebra, graphing, geometry, finance, probability and statistics. Course is only applicable for AAS and AGS degrees and is not transferable for credit.

MATH 111B Mathematics for Electronics Applications 3 (3,0,0,0)

An electronics algebra/trigonometry course which includes signed numbers, laws of exponents, proportions, logarithms, trigonometric functions, polar and rectangular conversions. Prerequisite: MATH 093.

**MATH 115B Mathematics for the Hospitality/
Gaming Industry 3 (3,0,0,0)**

Using data and examples relevant to the hospitality/gaming industry, students will use an applied approach to learn math skills relevant to this industry. Topics covered will include fractions, decimals, geometry, percents, ratio and proportions, probability and statistics. The use of computers and calculators will be integrated into the applications. Students will work in “teams” on some projects and activities.

MATH 116 Technical Mathematics 3 (3,0,0,0)

Concepts that will allow students to become proficient in the mathematics used in technical fields are the focal point of this course. Topics include fundamental operations with signed numbers; measurement systems; exponents; order of operations; scientific notation; algebraic expressions; linear equations and inequalities; an introduction to graphing; simple geometric figures, logarithms; and fundamentals of trigonometry. MATH 091 is strongly recommended prior to enrollment.

**MATH 120 Fundamentals of
College Mathematics 3 (3,0,0,0)**

Topics include probability, statistics, geometry, and consumer mathematics. It may include problem solving, sets, logic, mathematical systems, numeration, and measurement. Course is broad in scope, emphasizing applications. Prerequisite: MATH 095 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

**MATH 122 Number Concepts for
Elementary School
Teachers 3 (3,0,0,0)**

Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing number concepts. This course does not satisfy the general education core requirements. Prerequisite: MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

**MATH 123 Statistical and Geometrical
Concepts for Elementary
School Teachers 3 (3,0,0,0)**

Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing concepts in statistics, geometry, and probability. Prerequisite: MATH 122 with a grade of C or better.

MATH 124 College Algebra 3 (3,0,0,0)

Practical applications are the focal point of this course. Topics include equations and inequalities; linear, quadratic, polynomial, exponential and logarithmic functions and their graphs; solutions of systems of linear equations; matrices; and sequences and series. Note: This course does NOT serve as a Prerequisite for MATH 127 nor is it sufficiently rigorous for entry into calculus. Prerequisite: MATH 096 or MATH 097 with a grade of C or better, or a satisfactory ACT/SAT/Placement Test score.

MATH 126 Precalculus I 3 (3,0,0,0)

A rigorous discussion of algebra concepts necessary for calculus is the focal point of this course. Topics include an in-depth investigation of algebraic functions and their graphs and solutions of systems of equations. Prerequisite: MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test Score. Note: This course serves as a prerequisite course for MATH 127 and is essential for students planning to take calculus.

MATH 127 Precalculus II 3 (3,0,0,0)

Topics include an in-depth investigation of trigonometric functions and their graphs, analytic trigonometry, solutions of triangles, vectors, and analytic geometry. Prerequisite: MATH 126 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score. Note: This course is essential for students planning to take calculus.

**MATH 128 Precalculus and
Trigonometry 5 (5,0,0,0)**

A one semester course equivalent to the combination of MATH 126 and MATH 127. Topics include an in-depth investigation of algebraic and trigonometric functions and their graphs, solutions of systems of equations, analytic trigonometry, solutions of triangles, vectors, and analytic geometry. Prerequisite: MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 132 Finite Mathematics 3 (3,0,0,0)

Topics include symbolic logic, set theory, and probability theory applied to the analysis of business and social science problems. Prerequisite: MATH 124 or MATH 126 or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 170 Mathematics of Finance 3 (3,0,0,0)

A mathematical study of interest annuities, sinking funds, depreciation, amortization and other topics related to business problems. Prerequisite: MATH 096 or 1-1/2 units of high school algebra.

**MATH 176 Introductory Calculus for
Application in Business
and Social Sciences 4 (4,0,0,0)**

Differentiation and integration of algebraic functions with applications to the analysis of business and social science problems. Prerequisite: Placement Test or MATH 124 or MATH 126 or equivalent.

MATH 181 Calculus I 4 (4,0,0,0)

Differentiation and integration of algebraic and transcendental functions with applications. Prerequisites: MATH 126 and MATH 127, or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 182 Calculus II 4 (4,0,0,0)

Topics include further applications and techniques of integration with applications, polynomial approximations, sequences, and series. Prerequisite: MATH 181 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 211B Advanced Mathematics for Electronics 4 (4,0,0,0)

An advanced course focusing on the mathematics that supports RADAR theory, circuit theory and telecommunications theory. The course will include conic sections, trigonometric functions and vectors, matrices, analytic geometry, and the introduction to differential and integral calculus, applications of first and second order differential equations in electronics, and Laplace transforms. Prerequisites: MATH 111B, ET 132B, or instructor permission.

MATH 251 Discrete Mathematics I 3 (3,0,0,0)

Topics include fundamental principles of logic and proof methods, elements of set theory, equivalence relations and partitions, counting techniques, mathematical induction, cardinality, power set, inclusion-exclusion principle, Cartesian product, pigeonhole principle, binomial theorem, probability and expectation. Prerequisites: MATH 127 or equivalent; and Corequisite: MATH 181 or equivalent.

MATH 253 Matrix Algebra 3 (3,0,0,0)

Introduces linear algebra, including matrices, determinants, vector spaces, linear transformations, eigenvectors and eigenvalues. Prerequisite: MATH 182 with a grade of C or better.

MATH 283 Calculus III 4 (4,0,0,0)

Topics include vectors, differentiation and integration of vector valued functions, multi-variable calculus, partial derivatives, multiple integrals, and applications. Prerequisite: MATH 182 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 285 Differential Equations 3 (3,0,0,0)

Theory and techniques for constant and variable coefficient ordinary linear differential equations. Also included are a number of non-linear types of ordinary differential equations. Emphasis will be on those differential equations arising from modeling real world phenomena. Prerequisite: MATH 182 with a grade of C or better.

Mechanical Engineering**ME 242 Dynamics 3 (3,0,0,0)**

Engineering analysis of bodies in motion in both two- and three-dimensions; analysis of the kinematic and kinetic principles for both particles and rigid bodies; the development and utilization of the concepts of force and acceleration, work, energy, impulse, momentum and impact. Prerequisites: CEE 241 (formerly CEG 206) and PHYS 180, 180L, and MATH 182.

Management**MGT 100B Practical Human Relations for Business 3 (3,0,0,0)**

Study of human factors involved in business and management with emphasis upon mutual responsibilities and communication problems of employees, managers and customers. Team activities.

MGT 103 Introduction to Small Business Management 3 (3,0,0,0)

Topics covered include start-up, financial and administrative controls, marketing programs, management techniques, legal and governmental relationships. All aspects of operating a business will be thoroughly discussed.

MGT 120B Introduction to Public Sector Administration 3 (3,0,0,0)

Examines the relationship between public sector policies and the world of business. Surveys the public sector regulating advertising, products, production, mergers, competition and marketplace restrictions.

MGT 201 Principles of Management 3 (3,0,0,0)

Topics covered include fundamentals and principles of management, administrative policies, objectives and procedures and problems of organization control and leadership.

MGT 212 Leadership and Human Relations 3 (3,0,0,0)

Focus is on understanding and managing human behavior in organizations. Developing a better understanding of one's self as a leader and exploring some of the more effective ways of leading others.

MGT 235 Organizational Behavior 3 (3,0,0,0)

Topics include concepts, theories and case studies concerning the behavior of people in modern business organizations.

MGT 283 Introduction to Human Resources Management 3 (3,0,0,0)

Designed to develop an understanding of the duties and responsibilities of personnel at the mid-management level. Areas covered include: employee needs, human relations, recruiting techniques, orienting and training employees, benefit programs and economics of supervision.

MGT 284B Introduction to International Management 3 (3,0,0,0)

Examination of the management of resources (people, capital goods, money, inventories and technology) across national boundaries. The student will also learn to adapt management principles and functions to the demands of foreign competition and environment. The class will be supplemented with international speakers. Prerequisite: MGT 201.

MGT 286B Personnel Interviewing 3 (3,0,0,0)

A study of the legal aspects of interviewing in the public and private sector. Students participate in oral board, orientation, counseling, exit and performance appraisal simulations.

MGT 291B Women in Management 3 (3,0,0,0)

Topics include women in management, changing life styles of women and men in U.S. labor force, U.S. legislation affecting women, management styles, power and leadership, effective time management, motivation and supervision, decision making techniques and effective communication.

MGT 294B Seminar in Management 3 (3,0,0,0)

Analysis of the nature and problems in management. Focus is on planning, organizing, decision making and controlling through the study of recent relevant literature and selected cases. May be taken a maximum of three times.

Mental Health Services

MHDD 101 Role of the Technician 1 (1,0,0,0)

Basic skills in behavioral observation, documentation and approaches to intervention as a treatment team member. Other topics include guardianship, rights, confidentiality, abuse and neglect, and program implementation.

MHDD 102 Medical Component 1 (1,0,0,0)

This course covers basic medical information including infection control, safety procedures, confidentiality, awareness of normal bodily functions, personal care and recognition of signs and symptoms that need to be reported to medical staff.

MHDD 103 Psychopathology and Developmental Disabilities 1 (1,0,0,0)

Study of the functional relationship between dual diagnosis of mental disorders and/or developmental disabilities and individual treatment issues raised by dual diagnosis.

MHDD 105 Conflict Prevention and Response Training 2 (2,0,0,0)

This course focuses on the application of prevention and response techniques to support persons in crisis or conflict with others. These applications are for use by service providers as approved by the State of Nevada, Division of Mental Health and Developmental Services.

MHDD 106 Teaching and Active Treatment 1 (1,0,0,0)

Defining “active treatment” and its necessary components. Implementing active treatment in a service context of dignity, respect, privacy, access to choices and participation in the therapeutic process with the use of effective teaching methods.

MHDD 107 Medication Fundamentals 2 (2,0,0,0)

Study of major categories of psychotropic and seizure medications. Rationale for use of medication, typical dosages, main effects, assessment of effectiveness and potential side effects.

MHDD 109 Introduction to Therapeutic Interventions 2 (2,0,0,0)

Basic approaches to behavioral intervention including defining behavior, data collection, principles and application of behavior change techniques, and implementation of behavioral programs.

MHDD 110 Introduction to Disability Services 3 (3,0,0,0)

Study of the history, social attitudes, major diagnostic categories, assessment techniques, major service approaches, legislation and standards of services related to persons with disabilities.

MHDD 126 Understanding Developmental Disabilities 2 (2,0,0,0)

Definition, history, diagnosis and causes of developmental disabilities. Development and delivery of effective direct support services to persons with developmental disabilities.

MHDD 127 Positive Behavior Supports 2 (2,0,0,0)

Addressed are applied approaches to changing behavior emphasizing positive learning principles, including functional observation and assessment of behavior, data collection, computation and graphing of data, positive behavior support planning and implementation, reinforcement, and progress evaluation.

MHDD 130 Teaching Life Skills 3 (3,0,0,0)

Study of teaching functional life skills to persons with disabilities, including persons with physical, social, vocational, communicative, intellectual, cognitive, and other mental disabilities.

MHDD 150 Issues In Substance Abuse 1 (1,0,0,0)

Overview of substance abuse issues and study of basic treatment approaches. Includes biological and lifestyle factors as well as legal issues.

MHDD 152 Allied Therapies 1 (1,0,0,0)

Study of the interdisciplinary roles of psychiatrists, psychologists, nurses, social workers, speech therapists, occupational therapists, recreational therapists and other professions involved in the therapeutic process.

MHDD 153 Life Span Development 1 (1,0,0,0)

Human growth and development through the life span. Includes social, cognitive and biological perspectives related to direct support services to persons with mental illness and/or developmental disabilities.

MHDD 154 Advanced Therapeutic Interventions 2 (2,0,0,0)

A working knowledge of therapeutic interventions, including active listening skills, elements of treatment plans, applications of basic treatment models and issues in therapeutic relationships. Prerequisite: MHDD 109.

MHDD 160 Understanding Mental Illness 2 (2,0,0,0)

Practical strategies for working with people with mental illness. Includes a brief history, social stigma, major diagnostic categories, common treatment issues and development of treatment plans related to mental illness.

MHDD 210 Autism Spectrum Disorders 3 (3,0,0,0)

Overview of autism spectrum disorders, including: assessment, diagnostic criteria, behavioral characteristics, impact on family, current research/intervention approaches, and support services.

MHDD 291B Fieldwork Experience 3 (1,0,0,12)

Experience to apply academic skills to on-site job training in human services agencies under experienced on-site supervision and on-going consulting with faculty mentor. May be repeated to a maximum of nine credits. Prerequisites: Completion of at least ten MHDD credits and approval of Program Director.

MHDD 295 Practicum 3 (1,0,0,8)

Career-related work experience working directly with persons with mental illness or developmental disabilities within a service provider agency. Prerequisites: Completion of at least 10 MHDD credits, evidence of TB test within past year, and approval of Program Director.

MHDD 299 Capstone Project 3 (1,0,0,6)

This course provides a capstone experience to integrate theory and academic coursework into a substantive applied project for students majoring in Mental Health Services. Prerequisite: Approval of Program Director.

Military Science**MIL 100 Leadership Lab 1 (0,2,0,0)**

Practicum in those skills taught in the classroom during the other military science classes. Hands-on lab led by mentored cadets focusing on leadership, planning and execution of squad tactics, movement formations, drill and ceremonies, equipment inspections, rappelling, land navigation, orienteering, rifle marksmanship, and air-mobile operations. Leadership Lab is required every semester in conjunction with the appropriate military science class.

MIL 101 Leadership and Personal Development 2 (2,0,0,0)

Mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Army Officer, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills.

MIL 102 Introduction to Tactical Leadership 2 (2,0,0,0)

Continuation of the mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills.

MIL 201 Innovative Team Leadership 2 (2,0,0,0)

Introduction to leadership and management, which develops the basic skills that must be learned in order to perform as an effective leader. Introduction to the Army Leadership Development Program (LDP), the decision-making process, the code of conduct, the Army Operations Order format and its use. Advanced land navigation, physical fitness and briefing skills.

MIL 202 Foundations of Tactical Leadership 2 (2,0,0,0)

Leadership and management, which develops the basic skills that must be learned in order to perform as an effective leader. Introduction to the Army Leadership Development Program (LDP), the decision-making process, the code of conduct, the Army Operations Order format and its use. Advanced land navigation, physical fitness, and briefing skills.

**Marketing/Merchandising/
Retail Management****MKT 111 Introduction to Merchandising 3 (3,0,0,0)**

Provides the knowledge necessary to buy merchandise profitably, with mastery of the role of the buyer in relation to other store personnel. Provides skill in planning and figuring markups and expense control as well as determining differences in buying fashion and staple merchandise.

MKT 123 Sales Promotion 3 (3,0,0,0)

Provides the basic knowledge necessary to develop sound sales promotion practices. Builds on a rigorous base of consumer psychology and treats advertising, reseller stimulation, personal selling and other communication tools as part of an overall promotional mix.

MKT 125 Introduction to Fashion Merchandising 3 (3,0,0,0)

Provides a comprehensive view of the fashion industry. Gives an up-to-date guide to the fundamentals of the merchandising of fashion apparel and accessories. Presents the basic principles of fashions, how fashions begin, move, disseminate and can be predicted.

MKT 127 Introduction to Retailing 3 (3,0,0,0)

Directs the student's attention to the dollar and cents implications of managerial decisions and to the various methods used to measure the profitability of those decisions in the field of retailing. Underlines the importance of customer requirements, taste and expectations, emphasizing the retailing implications of market factors.

MKT 132 Sales Management 3 (3,0,0,0)

Provides a comprehensive view of the sales manager as an administrator. Presents a detailed picture of how to operate a sales force including selecting, training, compensating, supervising and motivating sales people.

MKT 210 Marketing Principles 3 (3,0,0,0)

Survey of marketing. Studies problems of the manufacturer, wholesaler and retailer in the marketing of goods and services, channels of distribution, customer relations, pricing policies and communications.

MKT 211 Introduction to Professional Sales 3 (3,0,0,0)

Provides a comprehensive hands-on experience in selling techniques as they relate to modern industrial, wholesale and consumer products.

MKT 250 Introduction to International Marketing 3 (3,0,0,0)

Introduces the student to the various functions of marketing as they are performed in the international environment. Focuses on the problems and decisions facing management in international marketing. Considers the impact of differences in language, aesthetics, religion and business customs on marketing strategies. Prerequisite: MKT 210.

MKT 261 Introduction to Public Relations 3 (3,0,0,0)

Techniques of public relations for those holding supervisory or higher positions in management and marketing. Principles of creating and maintaining good public relations, including employee/employer relations. Customer/employee relations receive emphasis while focusing on the programming of the total public relations effort and selecting of appropriate strategy, media and persuasive devices to accomplish objectives.

MKT 262 Introduction to Advertising 3 (3,0,0,0)

Presents methods and techniques to become a skillful advertiser. Includes copy writing skills, selecting proper media and how the advertisers can approach their problems most effectively.

Medical Office Assisting

MOA 101B Introduction to Medical Assisting 3 (2,3,0,0)

Introduction to the profession of Medical Assisting. Topics include professionalism, communication techniques, community resources, medical ethics and confidentiality. Corequisites: ENG 101 and COT 127B.

MOA 106B The Body in Health and Disease I 3 (3,0,0,0)

Essential anatomy and physiology of 5 body systems emphasizing application to patient interviewing, teaching, and communication with health professionals. Corequisite: MOA 107B.

MOA 107B Medical Assistant Techniques 4 (3,3,0,0)

Emphasis on the clinical aspect of a medical office. Topics include preparation, assisting, vital signs, basic pharmacology, nutrition and diet therapy. Corequisite: MOA 106B.

MOA 108B The Body in Health and Disease II 3 (3,0,0,0)

Continuation of MOA 106B. Includes remaining body systems as well as human development and aging, diagnostic and imaging procedures. Prerequisite: Instructor permission.

MOA 110B Clinical Assistant Techniques 4 (3,3,0,0)

Principles of infection control and IV therapy. Equipment preparation, operation and maintenance. Aseptic techniques, preparation and administration of medications, ECG, assisting with minor office procedures, emergency procedures, CPR and First Aid Certification. Prerequisite: MOA 107B.

MOA 120B Medical Office Management 3 (2,3,0,0)

The theory, practice and techniques of medical office management. This course emphasizes medical administrative responsibilities, records management, business management, managed care, computerized office management, and transcription. Prerequisite: MOA 101B or approval of MOA Program Director.

MOA 130B Clinical Externship 3 (0,0,12,0)

Provides practical medical assisting experience in the physician's office or a medical clinic. Student is an active participant in the administrative and clinical areas. The externship is part of the curriculum and is a learning experience. Prerequisite: Instructor approval.

MOA 131B Externship Seminar 1 (1,0,0,0)

Discussions of clinical issues and experiences with emphasis on case studies, role playing and problem solving techniques. Prerequisite: Instructor approval.

MOA 195B Selected Topics in Medical Assisting 2 (1,3,0,0)

Covers selected topics of interest to students of Medical Office Assisting including review for the national certification examination and preparation for job search. Prerequisite: Instructor approval.

Mechanical Technology**MT 101B Introduction to Theater Technology 2 (2,0,0,0)**

Introduction and survey of theater history and technology. Identification of criteria for employment and goal achievement in theater environment. Understanding technical and occupational skills needed for meaningful employment within the theater industry.

MT 102B Fundamentals of Electricity 4 (3,2,0,0)

Fundamentals of constructing electrical circuits, measuring their predictable parameters, using measuring instruments and materials needed to maintain and repair electrical systems.

MT 104B Industrial Electricity 4 (3,2,0,0)

The course concentrates on fabricating, maintaining, troubleshooting, and repairing electrical systems encountered in industry. Emphasis is on the different types of common motor controllers and ladder logic for configuration. Prerequisite: MT 102B or ET 131B.

MT 106B Mechanical Power Transmission 4 (3,2,0,0)

Overview of hardware components of mechanical power to include preventive maintenance, troubleshooting, overhauling and repairing parts and equipment.

MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation) 4 (3,2,0,0)

Presents the theoretical basis for hydraulic and pneumatic circuitry. Attention is given to circuit components and how they work. Assembly, disassembly and troubleshooting is emphasized.

MT 110B Material Science I (Ferrous and Non-Ferrous) 4 (3,2,0,0)

The study of compositions, structures and behaviors of ferrous and nonferrous materials and their effects on physical, mechanical and electrical.

MT 112B Manufacturing Quality Control 3 (2,2,0,0)

The development of a process to determine when a system is in or out of its parameters. Data collection, analysis and problem solving is emphasized.

MT 114B Automated Manufacturing Control 3 (2,2,0,0)

Encompasses the requisition, ordering, expediting and stock control of materials. Principles of computer and sensor operated manufacturing are presented.

MT 115B Programmable Logic Controllers I 3 (2,2,0,0)

Presents the principle of programming logic controller and computerized sensor controls. Emphasis placed on troubleshooting and maintaining computerized sensor control systems.

MT 116B Programmable Logic Controllers II 3 (2,2,0,0)

Advanced programmable control applications and uses dealing with programmable control frequency drives and man machine interfaces packages.

MT 120B Electrical Safety 1 (1,0,0,0)

This course covers the proper safety procedures based on OSHA standards 29CFR 1910 requiring qualification for work on live circuits.

MT 121B Fundamentals of Industrial Measurement 2 (2,0,0,0)

This course covers basic electrical pressure, density, viscosity, temperature measurements and application of Ohm's Law. Safe and correct usage of various meters, gauges and test equipment will be emphasized.

MT 122B Hand Tools and Measuring Instruments 1 (1,0,0,0)

Using computer simulation, the student will articulate proper holding of hand tools for turning and striking. In this same fashion the student will also set up, calibrate and properly use precision measurement tools.

MT 123B Rigging and Lifting 1 (1,0,0,0)

Computer simulation will be used to demonstrate types of lifting equipment, when each type would be used and proper procedures for planning a lift.

MT 124B Industrial Lubrication 1 (1,0,0,0)

This course covers various lubrication systems, their operations, preventative maintenance, repair and failure analysis. Included are ring, bath, splash, constant level and force-fed systems. Proper use of related equipment will be covered.

MT 140B Electrical/Electronic Theory 2.5 (2.5,0,0,0)

This course covers Ohm's Law, the relationship of volts/amps/resistance, basic schematics, symbols and measurement. Analog and digital circuits will be introduced. Prerequisite: MATH 116.

MT 141B Electrical Print Reading 1 (1,0,0,0)

Reading and interpreting the symbols on electrical schematics, determining the function of input, logic and output elements in control circuits are covered. Prerequisite: MATH 116.

MT 142B Conduit Bending and Installation 0.5 (0.5,0,0,0)

Understanding of general conduit bending and installation, in accordance with the National Electrical Code (NEC), conduit systems, general specifications and the use of types and major components of materials are introduced. Prerequisite: MATH 116.

MT 143B Electrical Control Equipment 3 (3,0,0,0)

Understanding of installation, maintenance and use of electrical control equipment, such as fuses, circuit breakers, circuit breaker panels, switches, control circuits and relays are covered. This course also covers basic troubleshooting and repair. Prerequisite: MATH 116.

MT 144B Electrical/Electronic Test Equipment 1 (1,0,0,0)

This course deepens the understanding of electronic test equipment, including digital volt/ohmmeters (DVOM), oscilloscopes and function generators. Prerequisite: MATH 116.

MT 145B Troubleshooting Skills 0.5 (0.5,0,0,0)

Basic procedures for troubleshooting electrical control circuits, using schematic diagrams to locate problems. Performing continuity checks and developing a diagnostic routine are also covered. Prerequisite: MATH 116.

MT 160B Industrial Hydraulic Power 3 (3,0,0,0)

Components of hydraulic systems and how the components function together, as well as interpretation of hydraulic schematics are covered.

MT 161B AC/DC Motors 2 (2,0,0,0)

Identification of the basic types of AC/DC motors including permanent magnet, three-phase and induction motors, major components and how to measure, inspect and diagnose malfunctions are covered.

MT 162B Programmable Logic Controllers 1.5 (1.5,0,0,0)

This course covers interpretation of programmable controller ladder logic, program elements of ladder logic and the function they perform.

MT 180B Co-Op/Internship First Semester 3 (0,0,0,12)

This course provides hands-on opportunities for students to work in actual power utilities environment to gain experience and learn how to apply technical knowledge and skills learned in their course work to actual power utility setting. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

MT 181B Co-Op/Internship Second Semester 3 (0,0,0,12)

This course provides hands-on opportunities for students to work in actual power utilities environment to gain experience and learn how to apply technical knowledge and skills learned in their course work to actual power utility setting. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

MT 182B Co-Op/Internship Third Semester 2 (0,0,0,9)

This course provides hands-on opportunities to apply material and skills learned in the interactive, multimedia course work previously completed in MT 160B, 161B and 162B. Prerequisite: Department approval.

MT 183B Co-Op/Internship Third Semester 3 (0,0,0,12)

This course provides the student with the opportunity to apply the technical knowledge and skills acquired in their course work to actual theater environment. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

MT 184B Co-Op/Internship Fourth Semester 3 (0,0,0,12)

This course provides hands-on opportunities for students to work in actual theater environment to gain experience and learn how to apply technical knowledge and skills learned in their course work to actual theater settings. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

Music

MUS 100 Concert Attendance 0 (0,0,0,1)

Attendance at ten on-campus concerts and/or recitals as a member of the audience. Required of every music major for four semesters. Note: Students taking this course must check in with the Music Office during the first week of the semester.

MUS 101 Music Fundamentals 3 (3,0,0,0)

A course in learning to read music, including notation, terminology, scales, and chords. Designed to furnish a foundation for musicianship.

MUS 102 Beginning Music Theory 3 (3,0,0,0)

Review course designed for music majors whose background in music theory is not sufficient for admittance into MUS 201. Not applicable to degree with a major in music. Notation, note reading, scales, intervals, chords, part writing. Sight-singing and Ear Training.

MUS 103 Voice Class I 3 (3,0,0,0)

Teaches fundamentals of tone production, breath control, and practical techniques involved in reading and interpreting songs.

MUS 107 Guitar Class I 3 (3,0,0,0)

A class in basic guitar technique. Recommended for non-Music majors and elementary school teachers. No previous musical training required.

MUS 108 Guitar Class II 3 (3,0,0,0)

Classroom instruction in guitar at the intermediate level. Prerequisite: MUS 107.

MUS 111 Piano Class I 3 (3,0,0,0)

Class instruction in piano playing. This course is for people who have never played the piano.

MUS 112 Piano Class II 3 (3,0,0,0)

A class in basic piano technique, designed as a continuation of MUS 111. Prerequisite: MUS 111.

MUS 121 Music Appreciation 3 (3,0,0,0)

The course is for students with little or no musical training and focuses on the historical background of classical music and composers and listening to representative works. Emphasis is on increasing enjoyment and understanding of a variety of classical musical styles.

MUS 125 History of Rock Music 3 (3,0,0,0)

The esthetics and sociology of rock from its origins in rhythm and blues to the rise of Elvis Presley and Rock-a-Billy, Chuck Berry and teenage-rock, Bob Dylan and protest rock, the Beatles and the Rolling Stones, Psychedelic Rock, and Soul.

MUS 131 Introduction to Music Literature 3 (3,0,0,0)

Development of a listening repertoire that will serve as a basis for music history.

MUS 133 History of The Beatles 3 (3,0,0,0)

Students will study the history of The Beatles from their beginnings in Liverpool, England, to their unequalled world popularity. The course will feature a mixture of videos, music, and discussion that will cover every important phase of the world's most successful and beloved rock band.

MUS 134 Jazz Appreciation 3 (3,0,0,0)

Study of jazz literature for the layperson from the early 1900s to the present with emphasis on differentiating the various styles of jazz.

MUS 181 Business of Music 3 (3,0,0,0)

A general survey course to provide the knowledge of music merchandising, management, publishing, contracts, copyrights, record production, concert promotion and manager selection.

MUS 201E Basic Musicianship I E 3 (3,0,0,0)

Elementary Harmony. A basic study of harmonic practices, including four-part writing and rudimentary forms. Prerequisite: Theory Placement Exam.

MUS 201F Basic Musicianship I F 1 (1,0,0,1)

Ear-Training and Sight-Singing Lab. These elements are practiced as related to materials presented in MUS 201E. Prerequisite: Theory Placement Exam.

MUS 202E Basic Musicianship II E 3 (3,0,0,0)

Elementary Harmony. A basic study of harmonic practices, including diatonic seventh chords, part-writing, secondary functions, modulations and rudimentary forms. Prerequisite: MUS 201E.

MUS 202F Basic Musicianship II F 1 (1,0,0,1)

Ear-Training and Sight-Singing Lab. These elements are practiced as related to materials presented in MUS 202E. Prerequisite: MUS 201F.

MUS 207E Advanced Musicianship I E 3 (3,0,0,0)

The study of harmonic practices including part-writing, altered chords, modulations and late nineteenth century techniques. Prerequisite: MUS 202E.

MUS 207F Advanced Musicianship I F 1 (1,0,0,0)

Ear-Training and Sight-Singing lab. These elements are practiced as related to materials presented in MUS 207E. Prerequisite: MUS 202F.

MUS 208E Advanced Musicianship II E 3 (3,0,0,0)

The advanced study of harmonic practices including twentieth century techniques and rudimentary counterpoint exercises. Prerequisite: MUS 207E.

MUS 208F Advanced Musicianship II F 1 (1,0,0,0)

Ear-Training and Sight-Singing lab. These elements are practiced as related to materials presented in MUS 208E. Prerequisite: MUS 207F.

MUS 229 Survey of Latin American Music 3 (3,0,0,0)

A survey of musical traditions and stylistic trends of Latin America from their roots to the present. This course will explore selected Latin American music works and styles from countries such as: Mexico, Cuba, Brazil, Colombia, Argentina and others, studying their influence in other continents and the United States.

MUS 231 Recording Techniques I 3 (3,0,0,0)

An introduction to audio recording including theoretical concepts, terminology, microphones, consoles, and use of analog and digital equipment. Includes hands-on training.

MUS 232 Recording Techniques II 3 (3,0,0,0)

An intermediate course in multi-track recording techniques including discussions on session procedures, production techniques, tracking and overdubbing methods, and general equipment operation. Prerequisite: MUS 231.

MUS 249 Harp 1 (0,0,0,0.5)

Private instruction in harp. May be repeated up to a maximum of four credits. Prerequisite: Four semesters of MUS 149.

MUS 251 Jazz Fundamentals I 3 (3,0,0,0)

Study of chord/scale relationships in improvising jazz/rock music. Includes voicings for keyboard and instrumental performance. Prerequisite: MUS 206, or appropriate musical background.

MUS 255 Jazz Keyboard Techniques I 3 (3,0,0,0)

Continuation of skills from MUS 111 with an emphasis on pop, jazz, and contemporary piano styles. Prerequisite: MUS 111.

MUS 256 Jazz Keyboard Techniques II 3 (3,0,0,0)

Continuation of MUS 255. Emphasis on improvisation, composition, and performance with rhythm section. Prerequisite: MUS 255.

MUS 281B Business of Music II 3 (3,0,0,0)

A continuation of MUS 181. Topics include starting a record label, recording budgets, record royalties, audits, legal agreements, and the future of the recording and music industry. Prerequisite: MUS 181.

MUS 285B Advanced Recording Techniques 3 (3,0,0,0)

A continuation of MUS 232. Emphasis on hands-on recording projects, digital multitrack recording, hard-disk editing, and mixdown techniques.

MUSA 101 Bass - Lower Division 1 (0,0,0,0.5)

Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 102 Bass II 1 (0,0,0,0.5)

Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 101.

MUSA 103 Bassoon - Lower Division 1 (0,0,0,0.5)

Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 104 Bassoon II 1 (0,0,0,0.5)

Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 103.

MUSA 105 Cello - Lower Division 1 (0,0,0,0.5)

Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 106 Cello II 1 (0,0,0,0.5)

Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 105.

MUSA 107 Clarinet - Lower Division 1 (0,0,0,0.5)

Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 108 Clarinet II 1 (0,0,0,0.5)

Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 107.

MUSA 109 Drum Set - Lower Division 1 (0,0,0,0.5)

Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 110 Drum Set II 1 (0,0,0,0.5)

Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 109.

MUSA 111 Euphonium - Lower Division 1 (0,0,0,0.5)

Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 112 Euphonium II 1 (0,0,0,0.5)

Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 111.

MUSA 113 Flute - Lower Division 1 (0,0,0,0.5)

Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 114 Flute II 1 (0,0,0,0.5)

Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 113.

MUSA 115 Guitar - Lower Division 1 (0,0,0,0.5)

Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 116 Guitar II 1 (0,0,0,0.5)

Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 115.

MUSA 117 Harp - Lower Division 1 (0,0,0,0.5)

Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 118 Harp II 1 (0,0,0,0.5)

Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 117.

MUSA 121 Horn - Lower Division 1 (0,0,0,0.5)

Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 122 Horn II 1 (0,0,0,0.5)

Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 121.

MUSA 123 Oboe - Lower Division 1 (0,0,0,0.5)

Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 124 Oboe II 1 (0,0,0,0.5)

Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 123.

MUSA 127 Percussion - Lower Division 1 (0,0,0,0.5)

Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 128 Percussion II 1 (0,0,0,0.5)

Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 127.

MUSA 129 Piano - Lower Division 1 (0,0,0,0.5)

Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 130 Piano II 1 (0,0,0,0.5)

Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 129.

MUSA 131 Saxophone - Lower Division 1 (0,0,0,0.5)

Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 132 Saxophone II 1 (0,0,0,0.5)

Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 131.

MUSA 133 Synthesizer/MIDI - Lower Division 1 (0,0,0,0.5)

Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 134 Synthesizer/MIDI II 1 (0,0,0,0.5)

Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 133.

MUSA 135 Trombone - Lower Division 1 (0,0,0,0.5)

Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 136 Trombone II 1 (0,0,0,0.5)

Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 135.

MUSA 137 Trumpet - Lower Division 1 (0,0,0,0.5)

Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 138 Trumpet II 1 (0,0,0,0.5)

Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 137.

MUSA 139 Tuba - Lower Division 1 (0,0,0,0.5)

Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 140 Tuba II 1 (0,0,0,0.5)

Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 139.

MUSA 141 Viola - Lower Division 1 (0,0,0,0.5)

Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 142 Viola II 1 (0,0,0,0.5)

Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 141.

MUSA 143 Violin - Lower Division 1 (0,0,0,0.5)

Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 144 Violin II 1 (0,0,0,0.5)

Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 143.

MUSA 145 Voice - Lower Division 1 (0,0,0,0.5)

Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 146 Voice II 1 (0,0,0,0.5)

Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 145.

MUSA 151 Bass for Non Majors 1 (0,0,0,0.5)

Private instruction in Bass for non-majors. May be repeated for credit.

MUSA 152 Bassoon for Non Majors 1 (0,0,0,0.5)

Private instruction in Bassoon for non-majors. May be repeated for credit.

MUSA 153 Cello for Non Majors 1 (0,0,0,0.5)

Private instruction in Cello for non-majors. May be repeated for credit.

MUSA 154 Clarinet for Non Majors 1 (0,0,0,0.5)

Private instruction in Clarinet for non-majors. May be repeated for credit.

MUSA 155 Drum Set for Non Majors 1 (0,0,0,0.5)

Private instruction in Drum Set for non-majors. May be repeated for credit.

MUSA 156 Euphonium for Non Majors 1 (0,0,0,0.5)

Private instruction in Euphonium for non-majors. May be repeated for credit.

MUSA 157 Flute for Non Majors 1 (0,0,0,0.5)

Private instruction in Flute for non-majors. May be repeated for credit.

MUSA 158 Guitar for Non Majors 1 (0,0,0,0.5)

Private instruction in Guitar for non-majors. May be repeated for credit.

MUSA 159 Harp for Non Majors 1 (0,0,0,0.5)

Private instruction in Harp for non-majors. May be repeated for credit.

MUSA 161 Horn for Non Majors 1 (0,0,0,0.5)

Private instruction in Horn for non-majors. May be repeated for credit.

MUSA 162 Oboe for Non Majors 1 (0,0,0,0.5)

Private instruction in Oboe for non-majors. May be repeated for credit.

MUSA 164 Percussion for Non Majors 1 (0,0,0,0.5)

Private instruction in Percussion for non-majors. May be repeated for credit.

MUSA 165 Piano for Non Majors 1 (0,0,0,0.5)

Private instruction in Piano for non-majors. May be repeated for credit.

MUSA 166 Saxophone for Non Majors 1 (0,0,0,0.5)

Private instruction in Saxophone for non-majors. May be repeated for credit.

MUSA 167 Synthesizer/MIDI for Non Majors 1 (0,0,0,0.5)

Private instruction in Synthesizer/MIDI for non-majors.
May be repeated for credit.

MUSA 168 Trombone for Non Majors 1 (0,0,0,0.5)

Private instruction in Trombone for non-majors.
May be repeated for credit.

MUSA 169 Trumpet for Non Majors 1 (0,0,0,0.5)

Private instruction in Trumpet for non-majors.
May be repeated for credit.

MUSA 170 Tuba for Non Majors 1 (0,0,0,0.5)

Private instruction in Tuba for non-majors.
May be repeated for credit.

MUSA 171 Viola for Non Majors 1 (0,0,0,0.5)

Private instruction in Viola for non-majors.
May be repeated for credit.

MUSA 172 Violin for Non Majors 1 (0,0,0,0.5)

Private instruction in Violin for non-majors.
May be repeated for credit.

MUSA 173 Voice for Non Majors 1 (0,0,0,0.5)

Private instruction in Voice for non-majors.
May be repeated for credit. Prerequisite: Audition required.

MUSA 201 Bass III 1 (0,0,0,0.5)

Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 102.

MUSA 202 Bass IV 1 (0,0,0,0.5)

Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 201.

MUSA 203 Bassoon III 1 (0,0,0,0.5)

Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 104.

MUSA 204 Bassoon IV 1 (0,0,0,0.5)

Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 203.

MUSA 205 Cello III 1 (0,0,0,0.5)

Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 106.

MUSA 206 Cello IV 1 (0,0,0,0.5)

Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 205.

MUSA 207 Clarinet III 1 (0,0,0,0.5)

Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 108.

MUSA 208 Clarinet IV 1 (0,0,0,0.5)

Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 207.

MUSA 209 Drum Set III 1 (0,0,0,0.5)

Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 110.

MUSA 210 Drum Set IV 1 (0,0,0,0.5)

Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 209.

MUSA 211 Euphonium III 1 (0,0,0,0.5)

Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 112.

MUSA 212 Euphonium IV 1 (0,0,0,0.5)

Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUS 211.

MUSA 213 Flute III 1 (0,0,0,0.5)

Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 114.

MUSA 214 Flute IV 1 (0,0,0,0.5)

Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 213.

MUSA 215 Guitar III 1 (0,0,0,0.5)

Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 116.

MUSA 216 Guitar IV 1 (0,0,0,0.5)

Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 215.

MUSA 217 Harp III 1 (0,0,0,0.5)

Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 118.

MUSA 218 Harp IV 1 (0,0,0,0.5)

Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 217.

MUSA 221 Horn III 1 (0,0,0,0.5)

Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 122.

MUSA 222 Horn IV 1 (0,0,0,0.5)

Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 221.

MUSA 223 Oboe III 1 (0,0,0,0.5)

Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 124.

MUSA 224 Oboe IV 1 (0,0,0,0.5)

Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 223.

MUSA 227 Percussion III 1 (0,0,0,0.5)

Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 128.

MUSA 228 Percussion IV 1 (0,0,0,0.5)

Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 227.

MUSA 229 Piano III 1 (0,0,0,0.5)

Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 130.

MUSA 230 Piano IV 1 (0,0,0,0.5)

Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 229.

MUSA 231 Saxophone III 1 (0,0,0,0.5)

Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 132.

MUSA 232 Saxophone IV 1 (0,0,0,0.5)

Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 231.

MUSA 233 Synthesizer/MIDI III 1 (0,0,0,0.5)

Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 134.

MUSA 234 Synthesizer/MIDI IV 1 (0,0,0,0.5)

Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 233.

MUSA 235 Trombone III 1 (0,0,0,0.5)

Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 136.

MUSA 236 Trombone IV 1 (0,0,0,0.5)

Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 235.

MUSA 237 Trumpet III 1 (0,0,0,0.5)

Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 138.

MUSA 238 Trumpet IV 1 (0,0,0,0.5)

Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 237.

MUSA 239 Tuba III 1 (0,0,0,0.5)

Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 140.

MUSA 240 Tuba IV 1 (0,0,0,0.5)

Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 239.

MUSA 241 Viola III 1 (0,0,0,0.5)

Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 142.

MUSA 242 Viola IV 1 (0,0,0,0.5)

Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 241.

MUSA 243 Violin III 1 (0,0,0,0.5)

Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 144.

MUSA 244 Violin IV 1 (0,0,0,0.5)

Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 243.

MUSA 245 Voice III 1 (0,0,0,0.5)

Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 146.

MUSA 246 Voice IV 1 (0,0,0,0.5)

Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 245.

MUSE 101 Concert Choir 1 (1,2.5,0,0)

Study and performance of representative choral music, sacred and secular, from the major musical types and historical movements. May be repeated for credit.

MUSE 103 Chamber Chorale 1 (1,2.5,0,0)

This vocal ensemble will study and perform literature from the Renaissance time period as well as other chamber music compositions.

MUSE 111 Concert Band 1 (1,2.5,0,0)

Open to all college students with previous band experience. May be repeated up to six times for credit.

MUSE 121 Symphony Orchestra 1 (1,2.5,0,0)

Rehearsal and performance of orchestral music of all periods. Required participation of scheduled performances. Audition required. May be repeated for credit.

MUSE 131 Jazz Ensemble 1 (1,2.5,0,0)

Performance ensemble will perform standard and new big band Jazz literature. Emphasis on sight reading, improvisation, and ensemble playing. Consistent attendance and participation in public performances mandatory. May be repeated for credit. Prerequisite: Admission by audition only. Limited to instrumentalists.

MUSE 133 Jazz Combo 1 (1,2.5,0,0)

Exploration and performance of small group jazz literature with improvisation. May be repeated for credit.

MUSE 135 Jazz Vocal Ensemble 1 (1,2.5,0,0)

Explores a variety of musical styles, including pop, rock, and jazz by a lively performing group.

MUSE 141 Woodwind Ensemble 1 (1,2.5,0,0)

Emphasis on woodwind literature from all periods. Open to college woodwind players, including saxophones, through audition or permission of the instructor. May be repeated six times for credit.

MUSE 146 Brass Ensemble 1 (1,2.5,0,0)

Emphasis on brass literature from all periods. Open to college brass players through audition or permission of the instructor. May be repeated six times for credit.

MUSE 161 Percussion Ensemble 1 (1,2.5,0,0)

A percussion ensemble performing musical repertoire varying from classical to jazz and pop selections. Audition required. May be repeated for credit.

MUSE 165 Steel Drum Band 1 (1,2.5,0,0)

A performance based class intended to provide the student with a general knowledge in the art of playing steel drums and percussion instruments related to the steel drum band.

Nursing

**NURS 040 In-Facilities
Nursing Assistant 3 (2,0,3,0)**

Integration of knowledge and skills which focuses on the role of the nursing assistant in caring for non-critical patients. Successful completion fulfills requirements for eligibility to write the Certified Nursing Assistant examination. This course is taught only in health care facilities. Registration must be through facility where course is taught.

**NURS 090 Tools for
Nursing Success 1 (1,0,0,0)**

Course is a brief introduction to nursing math through all four semesters, and to nursing process and writing care plans. Course open to all that have had acceptance into the Nursing Program.

**NURS 101 Introduction to Professional
Nursing Practice 6 (3,3,6,0)**

Introduction to the practice of professional nursing focusing on nursing concepts and skills while providing nursing care to promote adaptation of middle and elderly clients in a variety of settings. Prerequisite: Admission to ADN program.

NURS 115 Medical-Surgical Nursing I 6.5 (3.5,1.5,7.5,0)

Focuses on the role of the professional nurse in supporting and promoting optimal adaptation of the adult medical-surgical client in acute care settings. Prerequisites: NURS 101, 125B, BIOL 224.

NURS 125B Pharmacology for Nursing Practice 2 (2,0,0,0)

Integrates basic pharmacology with nursing practice. Covers drug actions, side effects, interactions, pharmacokinetics, and dosage and calculations. Prerequisite: Admission into the ADN program.

NURS 130 Nursing Assistant 6 (3,3,6,0)

Integration of knowledge and skills focusing on the role of the nursing assistant in caring for non-critical patients in skilled nursing facilities.

NURS 135B Nursing Assistant Instructor Development 1 (1,0,0,0)

Required by Nevada State Board of Nursing, this course reviews State and Federal regulations, model curriculum, course content, and laboratory and clinical skills.

NURS 205 Introduction to Associate Degree Nursing 4.5 (3,1.5,4,0)

Facilitates transition from LPN to professional nursing role in promoting optimal adaptation of the adult client within the community and acute care settings. Prerequisites: Admission to ADN program, LPN licensed in Nevada.

NURS 208 Professional Topics: Management Concepts and Transition into Professional Practice 2 (2,0,0,0)

Introduces the nursing student to basic management/leadership concepts as well as preparing the nursing student to assume and assimilate the role and the responsibilities of the professional nurse. Prerequisites: NURS 247, 248.

NURS 211 Medical-Surgical Nursing II 4.5 (2.25,0.75,6,0)

Focuses on the role of the professional nurse in supporting and promoting optimal adaptation of adult medical-surgical clients experiencing complex, multi-system dysfunction in acute critical and special care units and community settings. Prerequisites: NURS 247, 248.

NURS 240B RN Refresher Course (Theory/Lab) 2.5 (2,0.5,0,0)

Assists inactive professional nurses to update their knowledge and skills in order to renew their licensure. This is the first course of a two-course series.

NURS 242B RN Refresher Course (Clinical) 2.5 (0,0,0,7.5)

This is the second course of a two-course series designed to assist inactive professional nurses to update their knowledge and skills in order to renew their licensure. The student will be assigned to clinical practice under the supervision of an RN preceptor. This course will be graded on a pass/fail basis. Prerequisite: NURS 240B.

NURS 243 Mental Health Nursing 4.5 (2.25,0.75,6,0)

Focuses on the role of the professional nurse in supporting and promoting adaptive coping responses for clients and their families in mental health and other clinical settings. APs take NURS 125, 205 concurrently. Prerequisites: NURS 125B, 101, BIOL 224.

NURS 247 Maternal-Newborn Nursing 4.5 (2.25,0.75,6,0)

Focuses on the role of the professional nurse in supporting and promoting adaptation of the child-bearing family during antepartum, intrapartum and postpartum periods. Prerequisites: NURS 115 or 205, 243, and BIOL 251.

NURS 248 Pediatric Nursing 4.5 (2.25,0.75,6,0)

Focuses on the role of the professional nurse in supporting and promoting adaptive coping responses for pediatric clients and their families in a variety of settings. Prerequisites: NURS 115 or 205, 243, and BIOL 251.

NURS 285 Selected Topics in Nursing 0.5-6 (0.5-6,0,0,0)

Selected nursing topics offered for specific needs of nursing students or community nurses. Prerequisite: Consent of Nursing Program Director.

NURS 296 Nursing Management and Preceptorship 2.5 (0,0,7.5,0)

With guidance of a nursing preceptorship, this clinical practicum focuses on role transition from student to professional graduate nurse in the nursing management of client care. This course is graded on a pass/fail basis. Corequisites: NURS 208, 211.

Ornamental Horticulture

OH 100B Horticulture Fundamentals 1 (1,0,0,0)

Exploration of the varied fields and career opportunities within the Ornamental Horticulture industry. Students will also receive counseling to prepare and to guide their progression through the program leading to graduation. Should be taken in the first semester of study.

OH 101 Introduction to Plant Propagation 3 (3,1,0,0)

Introduction to asexual and sexual plant propagation practices emphasizing why these practices are used and how they are applied in hobby and commercial horticulture. Prerequisite: OH 100B or consent of instructor.

OH 104 Floriculture 3 (3,1,0,0)

Designed to provide the student with theory and lab experience on the identification, production, grading and standards for cut flowers and potted plants. Emphasis on processing, industry sales practices, merchandising and packaging of cut flowers and potted plants. Prerequisite: OH 100B or consent of instructor.

OH 105 Soils and Plant Nutrition 3 (3,1,0,0)

Designed to provide the student with instruction and laboratory experience on soil derivation, classification and general characteristics, properties of soil and soil evaluation, use of soils and their management, including soil moisture, structure, cultivation, organic materials and microbiology, alkali and saline soils and reclamation. Prerequisite: OH 100B or consent of instructor.

OH 107B Landscape Materials 3 (2,2,0,0)

The study of the various materials used in Landscape Construction including the interpretation of landscape construction documents for calculation of quantities.

OH 110B Plant Science 3 (3,0,0,0)

Study of the role of the environment upon plant growth and development with emphasis upon interaction between plants and environmental factors. Explores the scientific principles that can be applied to modify the environment and enhance plant performance and production.

OH 111 Turfgrass Fundamentals 3 (3,0,0,0)

Explores the biology and ecology of grasses suitable for use as turf with emphasis upon selecting species and cultivars suitable for the site environment. Introduces students to techniques of and equipment used in establishing and maintaining turfgrass in a variety of uses. Prerequisite: OH 100B or consent of instructor.

OH 120B Nursery Operations and Management 3 (3,1,0,0)

Course will cover those items needed to start and/or manage a retail nursery/garden center including site selection, layout, development, production, maintenance, operation management, merchandising, niche marketing, employer/employee relations and stock selection.

OH 130B Pesticide Regulations and Safety 1 (1,0,0,0)

Students will review the history and content of current Federal and State pesticide regulations. The content of pesticide labels and material safety data sheets will be examined to evaluate product suitability to the application, methods for storing, mixing, applying and disposing of the product and the personal protective equipment required to minimize risk. Instruction will fulfill the minimum standards for issuance of a Worker Protection Standard Training Handler Verification Card.

OH 131B Pesticide Management and Records 1 (1,0,0,0)

Students will be introduced to the decision making process followed in implementing a pest control program that includes the use of chemical pesticides and the role of an adequate record keeping system to comply with Federal and State regulations and provide useful information for future decision making. Emphasis will be placed upon strategies designed to minimize risk and the development of pest resistance.

OH 132B Pesticide Application and Equipment 1 (1,0,0,0)

Students will review different types of pesticide application equipment and the suitability of each to specific situations. Pre-use inspection techniques and routine maintenance practices will be presented. Instruction in the operation of individual types of equipment and application techniques to effectively and uniformly disperse pesticides with minimum exposure risk will be presented.

OH 133B Pesticide Application Rates and Calibration 1 (1,0,0,0)

Students will receive instruction and practice on how to determine the allowable rate of application for a pesticide, calibrate the application equipment, determine the amount of concentrated and prepared pesticide needed to treat a site.

OH 140B Annual Color Concepts 2 (2,0,0,0)

An introduction to the design and culture of annual color beds in the landscape including plant identification and selection, design principles, cost and budget considerations, and cultural practices.

OH 150B Landscape Equipment Survey 2 (1,3,0,0)

Students will be introduced to daily inspection, maintenance requirements and safe operation of powered equipment commonly used in landscape maintenance and construction.

OH 203 Introduction to Plant Pathology and Landscape Pests 3 (3,1,0,0)

This course is an introduction to plant pathology including the definition of disease, recognition of signs and symptoms, life cycle of disease causing organisms, and host response to disease causing organisms. Landscape pests and weeds found in the Southern Nevada area will be identified, their life cycle described, and host plants identified. Prerequisite: OH 100B or consent of instructor.

OH 207 Landscape Construction 4 (2,6,0,0)

Application of theories in analysis of landscape designs/plans to estimate quantities and costs of materials, labor and other associated inputs required to complete construction. Students will participate in the installation of a landscape project. Prerequisites: OH 107B, 109B or consent of instructor.

OH 209 Arboriculture 4 (3,3,0,0)

Designed to provide students with classroom and applied instruction on the care and management of large ornamental trees, shrubs and vines. Applied laboratory exercises will provide experience in tree climbing techniques, planting, staking, pruning, and other necessary skills. Prerequisite: OH 100B or consent of instructor.

OH 210B Arboriculture II 3 (3,1,0,0)

Handling of ropes and other safety equipment used in tree climbing, cavity work, bracing, cabling and pruning. Prerequisite: OH 209B.

OH 211B Irrigation Management 2 (1,2,0,0)

Provides students with a review of smart irrigation products and technology available for commercial and residential sites. Presents theory and application of water auditing techniques to evaluate system performance and establish baseline irrigation schedules based upon prevailing environmental factors and system performance. Prepares students for Irrigation Association certification examination. Prerequisite: IS 101 or consent of instructor.

OH 212B Landscape Estimating 3 (3,1,0,0)

Examination and application of cost estimating techniques in the preparation of budgets and/or bids that anticipate labor, equipment, material, subcontracting and overhead costs using current computer programs. There will be a review of contract law, types of contracts, job administration and cost accounting. Prerequisites: OH 100B and IS 101 or consent of instructor.

OH 214B Interior Plant Design and Maintenance 3 (3,1,0,0)

Identification, selection, cultural practices, design concepts, practices, and management of interior foliage plants.

OH 215B Advanced Irrigation Design 3 (3,1,0,0)

Advanced irrigation design applications. Prerequisite: OH 201.

OH 221B CAD for Landscape Design II 3 (3,1,0,0)

A continuation of CAD for Landscape Design I. Introduces the student to the advanced features of a CAD workstation, as it relates to landscape design, using AutoCAD software. Prerequisite: OH 219B.

OH 230B Basic Tree Work 1 (0.5,1.5,0,0)

This class is designed to provide instruction and application of safe work practices, identification and use of common hand tools, operation and maintenance of powered equipment used in tree care, and basic job skills for entry level as a ground worker for a tree care provider.

OH 231B Pruning I 1 (0.5,1.5,0,0)

This class is designed to provide instruction and application of industry accepted techniques and strategies for tree pruning including crown cleaning, crown thinning, crown reduction, and crown restoration. Topics presented will include natural target pruning concepts, CODIT model of tree wound response, safe operation and maintenance of commonly used hand tools and power equipment, and safe work practices in compliance with ANSI Z133.1 Safety Requirements.

OH 232B Climbing I 1 (0.5,1.5,0,0)

This class is designed to provide instruction and application of industry accepted climbing and work positioning techniques used in tree care. Topics presented will include safe work practices established by ANSI Z-133.1. Safety Requirements, climbing gear and accessories, climbing ropes, knots and knot tying, placing the climbing rope in the tree, tree entry techniques, limb walking, and controlled descent.

OH 233B Aerial Rescue 1 (0.5,1.5,0,0)

This class is designed to provide instruction and application of industry accepted aerial rescue techniques used to assist or remove an injured tree worker from the canopy of a tree. Topics presented will include aerial rescue practices established by ANSI Z-133.1. Safety Requirements, inspection and evaluation of the work area, techniques for descending while supporting and controlling the descent of an injured worker, basic first aid, and CPR. Prerequisite: OH 232B or consent of instructor.

OH 240 Turfgrass for Golf Professionals 3 (3,0,0,0)

A survey of the science and art of establishing and maintaining high quality turfgrass on golf courses. Students will be introduced to best management practices based upon environmental factors and the biological needs of turfgrass species and cultivars. Site visits will be made to local facilities to observe application of these principles. Emphasis will be placed upon budget and cost considerations.

OH 250B Advanced Topics 1-6 (0-4,0-6,0,0)

Introduction and exploration of advanced topics, current innovations and developing technologies in the industry using a combination of lectures, discussion forums, and/or practical applications. May be repeated up to a maximum of 6 credits. Prerequisite: OH 100B.

OH 295B Horticultural Careers Internship 1-4 (0,0,0,5-20)

Cooperative education course designed to provide the student with on-the-job supervised and educationally directed work experience in the green industry. One credit may be earned for each 75 hours worked per semester. Variable to 4 credits per semester. May be repeated to fulfill program internship requirements. Prerequisites: OH 100B and instructor approval.

Ophthalmic Technology**OPHT 102B Introduction to Contact Lenses 3 (3,0,0,0)**

Overview of instruments pertaining to the fitting of contact lenses; keratometer, biomicroscope, radioscope, diameter gauge, thickness gauge as well as others. Studies will emphasize the care and handling of rigid and soft contact lenses as well as their history.

OPHT 105B Introduction to Contact Lens Lab 1 (0,3,0,0)

Practical application of contact lens fitting procedures as presented in OPHT 102B. Topics include, but are not limited to: keratometry, slit-lamp evaluations, over-refractions, depth perception, color perception, strabismus assessment, and insertion and removal training. Corequisite: OPHT 102B.

OPHT 112B Anatomy and Physiology of the Eye and Related Structures 3 (3,0,0,0)

Designed to give the student an insight into the anatomical structure of the eye and its adnexa. The student will learn the function of the parts of the eye as they relate to vision and the fitting of contact lenses. The student will be presented with common pathologies of the eye and ocular pharmacology.

OPHT 115B Introduction to Ophthalmic Tech 3 (3,0,0,0)

Introduction to the profession of ophthalmic technology, the roles and responsibilities of the ophthalmic technician and organizations involved in the profession with emphasis on medical/legal issues, ethics and medical economics.

OPHT 121B Ophthalmic Optics I 5 (3,6,0,0)

History and development and manufacture of ophthalmic materials, including current industry standards. Single vision and multifocal lenses including spherical, spherocylinder and prism lenses, as well as formulae used in lens design, construction and function. Current lens catalogs are used for information and data.

OPHT 123B Ophthalmic Optics II 5 (3,6,0,0)

Studies of multifocal lens design and construction, including bifocals, trifocals, double segment lenses, progressive and blended lenses. Lens tints, coatings, colors, filters, occupational and sport lenses will be discussed. Formulae pertinent to lens functions will be covered as well.

OPHT 125B Ophthalmic Optics III 3 (3,0,0,0)

Principles of basic ophthalmic optics including optical principles of light, lenses and the human eye.

OPHT 130B Ophthalmic Procedures I 3 (2,3,0,0)

Principles and techniques of ophthalmic procedures including visual acuity measurement, lensometry, tonometry, depth perception, fusion, pupillary evaluation, history taking and color vision. Care, maintenance, calibration of instrumentation and inventory control are included.

OPHT 155B Geometric Optics 3 (3,0,0,0)

Principles of basic and advanced optics including optical principles of light lenses, prisms and mirrors. This is a course in optical physics.

OPHT 160B Clinical Applications I 3 (0,0,12,0)

Introductory clinical experience designed to apply skills acquired in previous course work. Experience designed to give the student an introduction to, and observation of, the ophthalmic office/hospital setting.

OPHT 161B Ophthalmic Seminar 1 (1,0,0,0)

Lecture/discussion of clinical issues and experiences with emphasis on case studies, role playing and problem solving techniques.

OPHT 201B Ophthalmic Dispensing I 5 (3,8,0,0)

Introduction to ophthalmic dispensing skills. Patient/client measurements, frame and lens material selection, prescription analysis and adjustment techniques will be covered. The student will develop basic lensometry skills using a manual lensometer. Students will learn and apply current ophthalmic A.N.S.I. standards. The student will learn the formulas and terminology pertinent to ophthalmic dispensing.

OPHT 202B Contact Lenses I 3 (3,0,0,0)

Continuation of OPHT 102B. Specialty lenses will be covered, including bifocals, torque, keratoconus as well as therapeutic lenses. Overview of all contact lens-related equipment. Students will also cover various over-refraction techniques.

OPHT 203B Contact Lenses II 1 (0,3,0,0)

Practical application of contact lens fitting procedures. Topics include modifications of contact lenses, over-refraction of contact lenses, corneal photography and problem solving techniques. Students will use case studies as well as each other to gain fitting experience.

OPHT 220B Theory of Refractometry 3 (3,0,0,0)

The course will cover pre-testing procedures. Identify various ophthalmic equipment and identify the procedures of the objective and subjective refraction.

OPHT 223B Ophthalmic Dispensing II 5 (3,0,8,0)

Continuation of clinical dispensing procedures, with emphasis on unusual and complex problems, including aphakia and various eye disorders.

OPHT 228B Ocular Pharmacology and Diseases of the Eye 4 (4,0,0,0)

Principles and concepts of pharmacology with emphasis on ocular pharmacology. Terminology, abbreviations, identification, delivery systems, actions and effects of commonly used drugs, as well as related legal issues of pharmacology are included. Pathological conditions of the eye are discussed including basic characteristics of common external, internal, and systemic diseases of the eye, ocular emergencies and management.

OPHT 232B Opticianry Management Sales 3 (3,0,0,0)

Presentation of basic principles of present day ophthalmic dispensing practices. Emphasis will be on patient communication, costs, both inventory and laboratory and computer skills, as well as general bookkeeping skills and associated dispensing practice procedures. Salesmanship and business ethics will be covered.

OPHT 235B Ophthalmic Surgical Assistant 2 (2,0,0,0)

Fundamentals and practice of microbial control, control of infection, prevention of contamination in the medical facility, safe handling of equipment and supplies, hand-washing technique, maintaining aseptic fields and assisting the physician in common office surgical procedures.

OPHT 237B Ophthalmic Clinical Management 3 (3,0,0,0)

Current diagnosis and treatment of ocular diseases and the technician's role in caring for pre- and post-operative patients. Basic and practical microbiology as it relates to the diagnosis, treatment and management of ocular diseases.

OPHT 238B Ophthalmic Applied Diagnostic Studies 3 (3,0,0,0)

Advanced diagnostic testing including ocular motility testing, potential acuity meter, ultrasonography, endothelial cell analysis, corneal topography, ophthalmic photography and electrophysiology.

OPHT 250B Clinical Applications II 3 (0,0,12,0)

Advanced clinical experience designed to apply skills acquired in previous course work. Emphasis is placed on contact lenses and surgical assisting,

OPHT 251B Clinical Applications Seminar 1 (1,0,0,0)

Discussion of clinical issues and experiences with emphasis on case studies, role playing and problem solving techniques.

OPHT 260B Introduction to Low Vision 1 (1,0,0,0)

Introduction to low vision dispensing skills for the optician. Topics include, but are not limited to: patient/client needs assessment, low vision aid/device selection, patient usage training, patient follow up visitations and resource services.

OPHT 291B Clinical Applications III 3 (0,0,12,0)

Clinical experience designed to apply skills acquired in previous course work. Experience designed to give the student an introduction to and observation of the ophthalmic dispensing office.

OPHT 299B Certificate Review 2 (2,0,0,0)

Review course for national and state competency examinations. This course may be taken up to three times: American Board of Opticianry Certification exam review, National Contact Lens Examiners certification review, and Nevada State Board of Dispensing Opticians exam review.

Physical Education

PEX 184 Conditioning, Intercollegiate Athletics 1 (0,0,0,6)

Beginning conditioning course designed to prepare students to participate in intercollegiate athletics.

PEX 186 Intercollegiate Baseball 1 (0,0,0,6)

Beginning course participation on the intercollegiate baseball team.

PEX 194 Intercollegiate Softball 1 (0,0,0,6)

Beginning course participation on the intercollegiate softball team.

PEX 284 Intermediate Conditioning, Intercollegiate Athletics 1 (0,0,0,6)

Intermediate conditioning course designed to prepare students to participate in intercollegiate athletics.

PEX 286 Intermediate Intercollegiate Baseball 1 (0,0,0,6)

Intermediate course participation on the intercollegiate baseball team.

PEX 294 Intermediate Intercollegiate Softball 1 (0,0,0,6)

Intermediate course participation on the intercollegiate softball team.

Pharmacy Technician

PHAR 100B Introduction to Pharmacy Practice 3 (3,0,0,0)

To provide an overview of the pharmacy profession and the roles of the pharmacist and the pharmacy technician. Topics include profession evolution, pharmacy law and ethics, professional standards, pharmacy operations, professionalism, and employment. Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 101B Pharmacy Techniques 3 (2,3,0,0)

To provide an overview of pharmaceutical preparation and compounding techniques. Topics including dosage forms, facilities and equipment, aseptic technique, quality control, and record keeping. Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 105B Pharmaceutical Math for Technicians 3 (3,0,0,0)

A practical approach to pharmaceutical math calculations designed to provide students with the skills, training, and techniques necessary for successful comprehension and mastery of relevant pharmaceutical computations. Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 110B Pharmacology I 2 (2,0,0,0)

An overview of the pharmacokinetics between the body systems and particular classes of drugs. Introduces a framework of knowledge and principles about the classifications, purposes, side effects, cautions and interactions of medications. Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 115B Pharmacology II 2 (2,0,0,0)

This course is designed to provide an advanced study of the pharmacological framework. Topics include therapeutic utility, drug classifications, drug actions, side effects, contraindications, and interactions. Prerequisite: PHAR 110B.

PHAR 120B Pharmacy Microcomputers 2 (1,2,0,0)

A computer-based laboratory course designed to introduce students to the fundamentals of computer and database applications unique to pharmacy practice settings. Prerequisite: PHAR 101B.

PHAR 126B Pharmacy Technician Practicum 7 (0,0,21,0)

Supervised application in a practice setting of the skills learned in the program, i.e., profiling, recognition and filling of medication orders. Intravenous preparation, aseptic techniques. Prerequisite: PHAR 110B.

Philosophy

PHIL 101 Introduction to Philosophy 3 (3,0,0,0)

A study of philosophy as an interpretation of human experience and an examination of concepts and assumptions fundamental in human thought.

PHIL 101H Introduction to Philosophy - Honors 3 (3,0,0,0)

An honors level study of philosophy as an interpretation of human experience and an examination of concepts and assumptions fundamental in human thought. Honors emphasizes both interactive and independent learning entailing an in-depth examination of one's thinking on philosophical questions through use of the Socratic Method. Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements. Prerequisite: Admission to the Honors program.

PHIL 102 Critical Thinking and Reasoning 3 (3,0,0,0)

Introduction to the analysis and evaluation of actual arguments, to the practice of constructing logically sound arguments, and to logic as the theory of argument. Emphasizes arguments of current or general interest.

PHIL 114 Introduction to Symbolic Logic 3 (3,0,0,0)

Introduces principles of correct reasoning, using modern symbolic techniques of the propositional calculus and simple quantification theory.

PHIL 115 Philosophy of Death and Dying 3 (3,0,0,0)

A philosophical study of concepts and theories surrounding death and dying. This course will examine different philosophical and/or cultural attitudes and beliefs concerning issues such as, but not limited to, preparation for death, fear of death, immortality, grief and commemoration of the dead.

PHIL 119 Introduction to the Old Testament 3 (3,0,0,0)

General survey of the books of the Old Testament from a nondenominational perspective. Covers the history, ideas and theological beliefs of Biblical Israel and deals with those themes in the light of archeological research and literary criticism.

PHIL 124 Philosophical Traditions of Asia 3 (3,0,0,0)

Study of the nature of self, mind, knowledge, truth, logic, and related themes characteristic of India, China, Japan, or any other Asian country.

PHIL 129 Introduction to the New Testament 3 (3,0,0,0)

This course surveys New Testament books from a non-denominational perspective. Literary criticism and historical background are considered.

PHIL 131 Introduction to Metaphysics 3 (3,0,0,0)

Selected problems concerning human nature and reality, e.g., mind and body, freedom and determinism, space and time, God, causality.

PHIL 135 Introduction to Ethics 3 (3,0,0,0)

A course designed to introduce students to the theory and practice of ethics. In the context of classical theories and modern moral problems, students will be encouraged to clarify their own ethical positions.

PHIL 201 Philosophy Goes to the Movies 3 (3,0,0,0)

Introduction to philosophical problems in ethics, politics, law, aesthetics, metaphysics, or knowledge through film and literary materials in addition to standard philosophical texts.

PHIL 202 Introduction to Philosophy of the Arts 3 (3,0,0,0)

Varieties of artistic representation and expression, the relationship of artworks to their embodiments, and the nature of interpretation and aesthetic response.

PHIL 203 Survey of Existentialism 3 (3,0,0,0)

A survey of the various influences and responses which led to existential thought. Readings from Kierkegaard, Sartre, Nietzsche and Buber will be emphasized.

PHIL 205 Science and Religion 3 (3,0,0,0)

Selected problems and episodes in the interaction between science and religion, such as the 17th century condemnation of Galileo, the 18th century controversy about natural religion, and the recent creation/evolution debate in the United States.

PHIL 207 Social and Political Philosophy 3 (3,0,0,0)

Major political philosophers, e.g., Plato, Aristotle, Machiavelli, Hobbes, Rousseau, Mill, and Marx, on topics such as justice, freedom, equality, tyranny, war, racism, sexism, power, consent, and economics.

PHIL 210 World Religions 3 (3,0,0,0)

A critical introduction to the nature of religion. The major moral and religious views of Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam will be studied.

PHIL 215 Introduction to Philosophy of Religion 3 (3,0,0,0)

An introductory philosophical examination of some claims and problems within the Western tradition including, but not limited to, the nature of God, arguments for the existence of God, the problem of evil, divine foreknowledge and human freedom, arguments for/against personal immortality, and faith/reason as alternative avenues to belief.

PHIL 216 Philosophy of Human Nature 3 (3,0,0,0)

This course explores a variety of traditions on what human nature is. We will study both western and eastern religious concepts, classical and modern philosophical theories, and scientific theories and models of human nature.

PHIL 217 Introduction to the Study of Marxism 3 (3,0,0,0)

Exploration of the fundamental concepts of the views of Karl Marx as well as other historical and contemporary Marxist thinkers.

PHIL 244 Bioethics 3 (3,0,0,0)

Treatments of such issues as abortion and euthanasia, cloning, genetic screening, just health care, patients' rights, the use of human and animal subjects in research.

PHIL 245 Contemporary Moral Issues 3 (3,0,0,0)

Introduction to ethics by way of such current issues as war and atrocity, the purpose of the university, racism, women's liberation, violence and aggression, the notions of happiness and success, or ethics of ecology.

PHIL 246 Philosophy of Law 3 (3,0,0,0)

Study of the meaning of law, particularly legal reasoning, positive and normative functions of law, and the nature of justice. Such legal theorists as Plato, Aquinas, Hobbes, Kant, Hegel, Hart, and Dworkin will be studied.

PHIL 247 Philosophy and Women 3 (3,0,0,0)

Variety of philosophical writings by or about women, from Plato to the present, focusing on such key concepts as nature, equality, dignity, freedom, love, and self-realization: may include feminist critiques of the western philosophical tradition. (Same as WMST 247.)

PHIL 249 Environmental Ethics 3 (3,0,0,0)

Explores fundamental concepts of human moral obligations towards other living things and natural systems. Topics include the rights of animals and new candidates for an adequate environmental ethic.

PHIL 295 Topical Issues in Philosophy 1-3 (1-3,0,0,0)

The topic will vary; however, the intent is to develop awareness of, and appreciation for, certain philosophers and/or issues. May be repeated to six credits.

PHIL 302 Intermediate Reasoning and Critical Thinking 3 (3,0,0,0)

Designed to extend the theory and practice of reasoned argument by the analysis, evaluation, reconstruction, and construction of extended examples drawn from such fields as philosophy, literature, religion, natural and social sciences, the arts, or contemporary affairs. Prerequisites: Admission to Dental Hygiene Bachelor of Science Degree Program, Medical Laboratory Scientist Bachelor of Applied Science Degree Program, Cardiorespiratory Sciences Bachelor of Applied Science Degree Program or consent of the instructor.

PHIL 311 Professional Ethics 3 (3,0,0,0)

A study of the nature of ethical thinking and its application to judgments about actions of people that make up society. Topics to be considered include ethical relativism, moral virtues and vices, foundations of morality, alternative theoretical perspectives on moral judgment egoism, altruism, and legal and regulatory perspectives related to ethics in business. Prerequisites: Admission to Dental Hygiene Bachelor of Science Degree Program, Medical Laboratory Scientist Bachelor of Applied Science Degree Program, Cardiorespiratory Sciences Bachelor of Applied Science Degree Program or consent of the instructor.

Photography**PHO 150B Movies and Media 3 (3,0,0,0)**

Analysis of movie and media, the meaning of images and stories, film deconstruction, genre and auteur appreciation, history of film and historical film construction models.

PHO 151B Film Directing Styles 3 (3,0,0,0)

This course is an analysis of the film director's relationship with key creative collaborators of the production team. An analysis of directing techniques, styles and survey of cinematic movements.

PHO 152B World Cinema 3 (3,0,0,0)

Survey of major movements in world cinemas that shows the evolution and development of film grammar through an examination of the historical, technological, and economic perspectives.

PHO 153B Independent Filmmaking 3 (3,0,0,0)

This course will study the evolution of independent filmmaking, through a close examination of cinematic and narrative styles, emerging technologies, independent financing, production budgets, and exhibition and distribution.

PHO 157B Cinematography I 3 (2,2,0,0)

Introduction to the study and operations of HDV and HD digital video cameras, lenses, apertures, shutter speeds, grip equipment, and to the principles and applications of composition, color and light for video. Prerequisite: PHO 214.

PHO 170 Beginning Photography 3 (2,2,0,0)

Fundamental techniques and use of photographic equipment using digital capture. Includes history of photography, its language and major styles, as well as camera handling, exposure, basic image adjustments using digital software including print processing and image presentation.

PHO 171B Digital Photography for the Novice I 3 (2,2,0,0)

This course is an introduction to the mechanics and use of traditional photographic language applied to the digital format. It will cover digital image capture, image downloading to computer, downsizing images and emailing them, and image posting to WebCT. This class is a very BASIC class meant for people new to digital technology.

PHO 172B Digital Photography for the Creative Mind I 3 (2,2,0,0)

This course is an introduction to the mechanics and use of digital technology to create and/or manipulate images into more artistic pieces. This class is very basic and meant for students new to digital technology. This course provides a fun learning experience that allows the student to experiment and use their imagination.

PHO 174B Night Photography 3 (2,2,0,0)

This course will explore the art of creating dramatic night time images. Prerequisite: PHO 170.

PHO 175 Intermediate Photography 3 (2,2,0,0)

Investigation and practice in intermediate photographic principles, creative photography and darkroom techniques and introduction to studio lighting methods. Visual emphasis and critical approach to photographic imagery. Prerequisite: PHO 170.

PHO 176B Photographic Composition and Design 2 (1,2,0,0)

Compositional and design elements specific to photographic processes. Academic principles related to technical, commercial, and creative composition with practical application.

PHO 177B Photographic Bookmaking Process 3 (2,2,0,0)

For many artists, the handmade book occupies a spot near the top of the food chain of creative self-expression. In this course, photographers will learn how to create a photographic book that best reflects your imagery for both self-promotion and commercial applications. Prerequisite: PHO 175.

PHO 178B Wedding Photography 3 (2,2,0,0)

Basic photographic techniques, use of cameras, and portable lighting equipment specific to wedding photography. Creative and compositional considerations. Commercial photography/wedding business applications. Prerequisite: PHO 175.

PHO 179B Wedding Photography II 3 (2,2,0,0)

This course will cover advanced lighting techniques in the studio and on location. Photoshop techniques for the wedding photographer will be taught. Efficient work flow will be discussed. Prerequisite: PHO 178B.

PHO 180 Creative Photography 3 (2,2,0,0)

A practical, analytical, and critical approach to creative color and black-and-white photography. Emphasis on creative film exposure and creative darkroom processes. Prerequisite: PHO 175.

PHO 181B Creative Photography II 3 (2,2,0,0)

This course deals with creating unusual and non-traditional photographic images through the use of toy cameras, darkroom manipulation, and theme interpretation. Prerequisite: PHO 180.

PHO 182B Alternative Photographic Processes 3 (2,2,0,0)

Introduction into non-traditional and historical photographic processes. Emphasis is placed primarily on non-silver techniques, processes, and large format Polaroid image and emulsion transfers. Prerequisite: PHO 195.

PHO 183B Sports and Entertainment Photography 3 (2,2,0,0)

Learn the basics of this exciting specialty area including boxing matches, concerts, shows, clubs, and celebrities. This course will feature several location shoots at major venues in Las Vegas. Prerequisite: PHO 175.

PHO 184B Introduction to American Cinema 3 (2,2,0,0)

Introduction to American cinema as art and communication. Analyze the creative process and film content by viewing films, reading textbooks and online screenplays and discussing dialogue.

PHO 185 Introduction to Photojournalism 3 (2,2,0,0)

The practical application of academic principles and technical skills of photojournalism. Emphasis on ethical considerations and journalistic real-world experiences and assignments. Prerequisite: PHO 175.

PHO 186B Photographing the Heritage of the West 3 (2,2,0,0)

A field course with classroom critiques focusing on locating, interpreting and effectively photographing natural and cultural resources found in the southwestern United States. Film, digital, or hybrid approaches can be used to shoot various stock and magazine type assignments. Prerequisite: PHO 170.

PHO 187B Digital Portrait Enhancement 2 (1,2,0,0)

This course will cover cosmetic retouching, glamour enhancement, retouching with large group photographs, digital body reshaping, and digital lighting enhancement. Prerequisite: PHO 175.

PHO 191B Digital Photography for the Novice II 3 (2,2,0,0)

This course is an intermediate course designed to manipulate and fine tune pictures through Photoshop. Prerequisite: PHO 171B.

PHO 192B Advanced Digital Photography for the Creative Mind 4 (2,4,0,0)

This course is an advanced exploration into the mechanics and use of digital technology to create Fine Art pieces. In this class, the student will enjoy creative license and full use of her/his imagination. This class is an advanced class for those students already familiar with traditional and digital photography, as well as digital technology, i.e., hardware and software.

PHO 194B Night Photography II 3 (2,2,0,0)

This course is an exploration of advanced photographic techniques used in low-light conditions with emphasis on film characteristics, digital techniques, and equipment operation. Creative, commercial, scenic and astrophotography applications will be covered. Prerequisite: PHO 174B.

PHO 195 Photographic Lighting 4 (2,4,0,0)

Introduction to control and modification of natural light and studio applications of quartz and electronic flash lighting equipment. Commercial/illustration, portrait, and photojournalistic applications stressed. Prerequisite: PHO 175.

PHO 200 Color Photography I 3 (2,2,0,0)

This course covers color in the digital world, from capture to print; from psychology to calibration. Students will learn to use color and produce accurate exhibition quality prints. Prerequisite: PHO 175.

PHO 202B Introduction to Forensic Photography 4 (2,4,0,0)

Introduction into practical control of crime scenes and their documentation photographically as evidence. Emphasis on the admissibility of photography into the chain of evidence. Prerequisite: PHO 170.

PHO 206 Nature Photography 4 (2,4,0,0)

The study of nature photography with an emphasis on biological and geological studies and specimens. All film formats are applied to field photography studies. Field trips are scheduled with participation required. Prerequisite: PHO 170.

PHO 207B Landscape Photography 3 (2,2,0,0)

Learn to work in the style of the master landscape photographers. Heavy emphasis on Zone system work. There will be several weekend field trips into the southwest region where students will have the opportunity to create fine art quality prints for exhibition. Prerequisite: PHO 170.

PHO 208B Introduction to Large Format Photography 3 (2,2,0,0)

Introduction to the large format camera and how it is used in a commercial environment with an emphasis on in-camera focus and perspective corrections. Students will be provided with large format view cameras to use in the studio and on location. Prerequisite: PHO 195.

PHO 209B Large Format Photography II 3 (2,2,0,0)

Advanced techniques in the use of view cameras. Includes both field and studio applications and extends the introductory course to new creative directions. Prerequisites: PHO 195, 208B.

PHO 210B Architectural Photography 3 (2,2,0,0)

Learn the art of creating exciting images of both exteriors and interiors. Prerequisite: PHO 195.

PHO 211B Editorial Photography 3 (2,2,0,0)

Students will be introduced to editorial photography with an emphasis on illustrating story ideas. Interpretation of assignments and location portrait lighting will be covered. Students will be given a variety of assignments taken from actual editorial photographers. Prerequisite: PHO 175.

PHO 212B Food Photography and Styling I 4 (2,4,0,0)

This course is designed to introduce students to the fundamentals of prepping and photographing food for various layouts. Prerequisite: PHO 195.

PHO 214 Videography and Film I 3 (2,2,0,0)

Basic filmmaking techniques using portable video or 16mm film equipment. Stresses effective video/film camera usage, production planning, storyboarding, lighting, directing and editing with commercial photography applications.

PHO 215 Rock Video Production 3 (2,2,0,0)

“Guerilla” rock video production for the low budget videographer. Planning stories and concepts, shooting band coverage and the story video will be covered. Prerequisite: PHO 214.

PHO 216 Videography and Film II 3 (2,2,0,0)

Intermediate filmmaking techniques using portable video camera and editing equipment. Stresses intermediate storyboarding, production planning, lighting, directing, editing, scriptwriting, camera moves and sequence shooting techniques. Prerequisite: PHO 214.

PHO 217B Wedding Videography 2 (1,2,0,0)

Basic video techniques, use of portable equipment, and in-camera editing techniques for wedding videography. Stresses camera usage, production planning, storyboarding, lighting, directing and editing with commercial photography/wedding applications. Prerequisite: PHO 214.

PHO 218B Film Screenwriting I 3 (3,0,0,0)

Process of organizing film/video screenplay materials and to create story concepts, screenplay outlines, storyboards and final shooting scripts.

PHO 219B Film Screenwriting II 3 (2,2,0,0)

Advanced techniques for finishing the professional screenplay with emphasis on revising plot structure, character development, rewriting scenes, sharpening and polishing dialogue. Prerequisite: PHO 218B or instructor permission.

PHO 220B Video Digital Editing 3 (2,2,0,0)

Digital editing and manipulation of video/film media for output to film, video, multimedia and digital media. Prerequisite: PHO 214.

PHO 221B Advanced Digital Editing 3 (2,2,0,0)

Advanced non-linear editing featuring Final Cut Pro software. Emphasizes intermediate technical aspects of Final Cut Pro such as basic editing, titling, compositing, applying digital effects and mixing with pro-level equipment. Previous digital editing experience recommended. Prerequisites: PHO 214 plus either PHO 216, 223B, or 220B or instructor permission required. Knowledge of Final Cut Pro necessary.

PHO 222B Photographic Presentations 3 (2,2,0,0)

Introduction to commercial presentation of photographic art. Emphasis is placed on current trends and classical framing, matting and placement of photographic art for salability.

PHO 223B Documentary Film Production I 3 (2,2,0,0)

Principles of documentary filmmaking. The study of classic documentary films and the production of a short documentary film/video focusing on local themes. Prerequisite: PHO 214.

PHO 224B Final Cut Pro Bootcamp 1 (2,2,0,0)

For the raw beginner in Final Cut Pro. This Tutorial boot-camp covers the rudimentary essentials of accessing and utilizing this non-linear editing program. This course is highly recommended for students taking PHO 216 or Beginning Editing. Students should have some familiarity with making films.

PHO 225 Photographic Commercial/Illustration I 4 (2,4,0,0)

Students will assume the role of a commercial photographer and complete weekly assignments from wide variety of subjects. Topics covered will include subject setup and lighting for food, automotive and architectural interior photography among others. Prerequisite: PHO 195.

PHO 226B Documentary Film Production II 3 (2,2,0,0)

Intermediate principles of documentary film making with emphasis on producing and shooting in the Electronic News Gathering (ENG) style. Prerequisite: PHO 220B or instructor permission.

PHO 227B DVD Studio Bootcamp 1 (1,2,0,0)

This is a hands-on post production course that teaches the technical and aesthetic skills required to design and author DVDs. Students will edit digital video; encode audio and video; propose and script a DVD project; create graphics, menus and buttons; design and test navigation and author/produce DVDs. Prerequisites: PHO 220B, 224B.

PHO 228B Motion Bootcamp 1 (2,2,0,0)

This 5 session bootcamp covers the introductory essentials of accessing and utilizing Motion (part of Apple's Final Cut Studio package of programs). Not for the beginner, student must be skilled in Final Cut Pro. Prerequisite: PHO 220B.

PHO 229B Hollywood Glamour 3 (2,2,0,0)

Learn to photograph models in the Hollywood Glamour style of George Hurrell. Students will use "hot lights" followed by retouching in Photoshop to achieve the desired results. Prerequisite: PHO 195.

PHO 234B High Fashion Photography 3 (2,2,0,0)

This course is designed as an introductory course of the fundamentals of fashion photography for editorial and advertising purposes. It will encompass black and white and color negative, and transparency films. Studio and location lighting emphasized. Prerequisite: PHO 195.

PHO 235 Photographic Portraiture I 4 (2,4,0,0)

Theory, skills, and practice of posing, lighting, exposing film, and printing in the photography of people. Formal, informal and environmental portraits are stressed. Prerequisite: PHO 195.

PHO 237B Fashionable Portraiture 3 (2,2,0,0)

This course expands on the knowledge of portraiture by creating new ways of seeing and photographing people. Current trends and styles of portrait photography will be covered. Prerequisites: PHO 234B, 235.

PHO 240B Digital Photographic Imaging 3 (2,2,0,0)

This course will introduce students to the basic Adobe Photoshop techniques such as layers, layer masks, color correction and retouching directed specifically to how it applies to photography will be explored. We will scan film and prints as well as using digital camera images. This course can be taken in the same semester as PHO 170. The student must be familiar with computer navigation, saving files and burning to a CD or disk.

PHO 244B Lighting for Video and Film 3 (2,2,0,0)

Introduction to control and modification of natural light and studio applications of tungsten and quartz lighting equipment, as it applies to film and video. Lighting terminology, tools of the trade and lighting techniques for specific needs, like people, rooms, action and products will be taught. Prerequisite: PHO 214.

PHO 245B Video Lighting and Grip 3 (2,2,0,0)

An introduction to basic lighting and grip language and technical skills for the videographer. Prerequisite: PHO 214.

PHO 250B Digital Photographic Imaging II 3 (2,2,0,0)

In this course, students will get to know their camera by extensive testing of its capabilities. Current trends in Digital Photography will be explored as well as techniques, workflows and equipment. Mastering output to labs as well as printing to specialty papers on the inkjet printers in the classroom. Prerequisite: PHO 240B or GRC 183B or instructor permission.

PHO 251B Digital Photographic Imaging III 3 (2,2,0,0)

In this course students will explore the newest trends and techniques in the fields of commercial and fine art photography, including advanced selection techniques and master printing philosophies. You will be exploring content, sequencing and presentation of your digital work. Prerequisite: PHO 250B or instructor permission.

PHO 254B Big Digital 3 (2,2,0,0)

This course will use medium format digital backs, Pro DSLR's and professional scanners to produce large digital files. Using these files, we will print to professional wide format printers. Prerequisite: PHO 250B or instructor permission.

PHO 257B Cinematography II 3 (2,2,0,0)

In this course, students take an advanced investigation into the visual language and technical aspects of motion picture film and digital filmmaking. This course places additional emphasis on lighting, including greenscreen and translites. Also, techniques for assuring the highest possible quality image and sound. Prerequisite: PHO 157B.

PHO 260B Photographic Business Practices 3 (3,0,0,0)

Fundamental photographic business organization, funding and management, to include equipment, personnel, and advertising needs.

PHO 262B Photographic Makeup 3 (2,2,0,0)

This course provides instruction in basic elements of makeup for portraiture, glamour, fashion, wedding, and commercial photography using time tested methods and techniques in a creative hands-on environment. Prerequisite: PHO 170.

PHO 265B Photographic Equipment and Set Construction 3 (2,2,0,0)

Construction of basic photographic studio backgrounds, diffusion systems, props and equipment support systems. Simplified photographic set construction.

PHO 272B History of Photography 3 (3,0,0,0)

Development of photography as an aesthetic medium from its invention to the present time in America and Europe.

PHO 278 Art and Photography in 20th Century Mexico 3 (3,0,0,0)

This course examines the contributions made by Mexican artists and photographers to 20th century visual culture. The focus is on the "Mexican Renaissance" of the 1920s and 1930s: in particular, the revival of the fresco tradition and the effect it had on artistic production. Other topics include: the print tradition, easel painting, and the development of Mexican photography. (Same as ART 278.)

PHO 285 Photographic Internship 3 (0,0,0,30)

Student placement at a commercial photography job location. On-the-job experience performing work projects reflecting industry employee assignments. Academic credit earned, with or without wages. Enrollment by instructor permission only.

PHO 288 Portfolio 3 (2,2,0,0)

The production of a professional portfolio. The selection and execution of various photographic and/or art pieces stressed. Portfolio presentation materials, methods, résumés, and application formats studied.

PHO 290B Video Portfolio 3 (0,0,0,3)

Development and manufacture of a useful video portfolio. Admission by permission of instructor. For Videography and Film majors only. Enrollment by instructor permission only.

Physics**PHYS 110 Conceptual Physics 4 (4,0,0,0)**

Introduction to fundamental concepts and principles of physics. Intended primarily for non-science majors. Integration of lecture and lab designed to satisfy the lab science general education requirement.

PHYS 151 General Physics I 4 (3,3,0,0)

General physics primarily for students in Arts and Science, medicine and agriculture. Includes study of mechanics, sound, and heat. A knowledge of right angle trigonometry is desired. Prerequisite: MATH 128 (or equivalent combination of MATH 126 and 127).

PHYS 152 General Physics II 4 (3,3,0,0)

Continuation of Physics 151. Covers optics, electromagnetism and some aspects of modern physics. Prerequisite: PHYS 151.

PHYS 180 Physics for Scientists and Engineers I 3 (3,0,0,0)

Lecture in Newtonian mechanics. Covers rectilinear motion, particle dynamics, work and energy, momentum and collision, rotational mechanics, oscillations, wave motion, and gravitation. Note: Students should have successfully completed MATH 181 before taking this course. Corequisite: PHYS 180L.

PHYS 180L Physics for Scientists and Engineers Lab I 1 (0,3,0,0)

Laboratory exercises in Newtonian mechanics. Covers rectilinear motion, particle dynamics, work and energy, momentum and collision, rotational mechanics, oscillations, wave motion, and gravitation. Note: Students should also be enrolled in PHYS 180 while taking this lab course. Prerequisite: MATH 181.

PHYS 181 Physics for Scientists and Engineers II 3 (3,0,0,0)

Lecture in electromagnetism, Coulomb's law, electric and magnetic fields, Gauss' law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell's equations and electromagnetic waves. Corequisite: PHYS 181L.

PHYS 181L Physics for Scientists and Engineers Lab II 1 (0,3,0,0)

Laboratory exercises in electromagnetism. Covers Coulomb's law, electric and magnetic fields, Gauss' law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell's equations and electromagnetic waves. Prerequisites: PHYS 180, MATH 182.

PHYS 182 Physics for Scientists and Engineers III 3 (3,0,0,0)

Lecture in fluid mechanics, thermodynamics and optics. Covers sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction of modern developments. Corequisite: PHYS 182L.

PHYS 182L Physics for Scientists and Engineers Lab III 1 (0,3,0,0)

Laboratory exercises in fluid mechanics, thermodynamics and optics. Covers sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction of modern developments. Prerequisites: PHYS 180, MATH 182.

Practical Nursing

PN 100L Practical Nursing Learning Lab 1 (0,3,0,0)

A lab to promote student nurse success by applying study skills, time management, critical thinking, and organizational skills to current course load in a collaborative and caring environment. Prerequisite: Admission to the PN program.

PN 101B Introduction to Practical Nursing 2 (2,0,0,0)

Explore health care delivery systems, nursing history, current trends in nursing, role of the Licensed Practical Nurse, the nursing process, legal and ethical responsibilities and communication. Prerequisite: Admission to PN program.

PN 103B Gerontological Health Care 2 (2,0,0,0)

Designed to discuss the holistic aspects of aging and the increasing health needs of the older adult.

PN 104B Practical Nursing Fundamentals 5 (2.5,3,4.5,0)

Applies basic nursing skills, nursing process, basic communication, mental health concepts, medication administration skills, calculation skills and legal and ethical responsibilities of the practical nurse in the care of the client with stable health care needs. Develops intravenous therapy skills. Clinical experience in long-term or sub-acute care setting. Prerequisite: PN 101B.

PN 105B Practical Nursing I 5 (2.5,3,4.5,0)

Continued application of nursing process, mental health concepts, medication administration skills, calculation skills, intravenous therapy skills and legal-ethical issues. Study of health disorders presented by body system sequence. Clinical practice in long-term or sub-acute care setting. Prerequisite: PN 104B.

PN 106B Family Nursing 3 (2.5,0,1.5,0)

Emphasizes normal growth and development and prevention, promotion, and maintenance of health while providing family health care. Focus on child bearing, the neonate, infant and children through the growth years. Prerequisite: PN 105B.

PN 108B Practical Nursing II 4 (2,0,6,0)

A continuation of PN 105B, this course applies the nursing process when providing nursing care to adult clients with stable health care needs in the acute care setting.

PN 110B Practical Nursing Seminar/Management Concepts 4 (2,0,6,0)

The seminar emphasizes career opportunities and responsibilities as well as NCLEX-PN preparation. The clinical component includes a preceptorship.

PN 125B Pharmacology for Practical Nursing Practice 3 (3,0,0,0)

Integrates basic pharmacology with nursing practice. Covers drug actions, side effects, interactions, pharmacokinetics, and dosage calculations. Prerequisite: Completion of PN 101B.

PN 240B LPN Refresher 5 (2,1.5,7.5,0)

Assists inactive practical nurses to update their knowledge and skills in order to renew their license. Includes precepted clinical practice in either an acute care, sub-acute care or long term care setting.

Portuguese

PORT 101B Basics of Portuguese I 3 (3,0,0,0)

A course emphasizing spoken communication. Speaking, oral listening, reading and writing skills explored. A vocabulary of Portuguese-English words developed.

PORT 111 First Year Portuguese I 4 (4,0,0,0)

The development of language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language skills.

PORT 112 First Year Portuguese II 4 (4,0,0,0)

A course emphasizing the further development of Portuguese language skills in listening, speaking, reading and writing. Emphasis is placed on more sophisticated communication in all four language acquisition skills. Portuguese speaking culture(s) are also emphasized. Prerequisite: PORT 111.

PORT 211 Second Year Portuguese I 3 (3,0,0,0)

A continuation of Portuguese 111 and 112. This course emphasizes the development of Portuguese language skills in listening, speaking, reading, writing and Portuguese-speaking cultures. Prerequisite: PORT 112.

PORT 212 Second Year Portuguese II 3 (3,0,0,0)

A continuation of Portuguese 111, 112, and 211. This course emphasizes the continuing development of Portuguese language skills in listening, speaking, reading, writing and Portuguese-speaking cultures. Prerequisite: PORT 211.

Political Science

PSC 101 Introduction to American Politics 4 (4,0,0,0)

A survey of United States, national, state and local governments with emphasis on the cultural aspects of the governing process. (Satisfies the legislative requirement for the United States and Nevada Constitutions.) Prerequisite: ENG 101.

PSC 200 Survey of Political Theory 3 (3,0,0,0)

Survey of political theory from Plato to the present. Among the thinkers whose works will be explored are Aristotle, St. Thomas Aquinas, Machiavelli, Hobbes, Locke, Rousseau and Marx.

PSC 201 Politics of Minority Groups 3 (3,0,0,0)

An analysis of the effects of religious, cultural, racial and sexual identification on the American process.

PSC 205 Latino Politics and Society 3 (3,0,0,0)

This course will focus on the social, economic, and political evolution of the Latino community in the United States.

PSC 208 Survey of State and Local Government 3 (3,0,0,0)

Organization, working principles, functional processes of state and local governments in the United States. (Satisfies the legislative requirement of the Nevada Constitution.)

PSC 210 American Public Policy 3 (3,0,0,0)

Analysis of the interplay of forces involved in policy-making at all levels of American government. Assessment of the impact of policy on individuals and institutions. Prerequisite: PSC 101.

PSC 211 Introduction to Comparative Politics 3 (3,0,0,0)

Analysis of similarities and differences in the governing processes of developed and developing societies. Prerequisite: PSC 101.

PSC 222 Terrorism and Political Violence 4 (4,0,0,0)

This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, "What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and is in no position to redress the perpetrator's grievances?" The course approaches the issue from four different academic perspectives: history, psychology, sociology, and political science. (Same as HIST 222, PSY 222, or SOC 222.)

PSC 231 Introduction to International Relations 3 (3,0,0,0)

An introduction to and explanation of modern and contemporary international relations, foreign policies and economic and social conditions in an interrelated world.

PSC 246 Politics of Developing Nations 3 (3,0,0,0)

A survey of the politics, ideologies, political structures, processes, and important issues and problems in developing nations, with specific examples drawn from selected countries and regions. Students will consider the arguable meanings of "development" and "globalization".

PSC 247 Organized Crime and Political Corruption 3 (3,0,0,0)

Students will review relationships among organized crime groupings and local, state, and national governments with particular attention to 21st century America and other selected nations.

PSC 251 Introduction to Campaign Management 3 (3,0,0,0)

Students will be exposed to a broad spectrum of subjects related to the management of political campaigns, with the intent of understanding various factors that must be considered and integrated into almost every political campaign.

PSC 253 Online Campaign Strategies 3 (3,0,0,0)

Introduction to internet-based campaign strategies with a focus on developing and managing a web based campaign for election or other advocacy oriented activities.

PSC 257 Political Parties and Interest Groups 3 (3,0,0,0)

This course examines the history, purpose, organization, and strategies of the major and minor American political parties, and also examines the purpose of interest groups and their impact on the policy-making process.

PSC 259 Lobbying and Issue Advocacy 3 (3,0,0,0)

An examination of the profession and tactics of lobbying and issue advocacy including the processes, laws, and traditions surrounding the industry.

PSC 261 Introduction to Survey Research and Demographics 3 (3,0,0,0)

An introduction to development, deployment, and interpretation of survey research and other statistical and analytical tools and methodologies in the current political environment.

PSC 295 Topical Issues in Political Science 1-3 (1-3,0,0,0)

Exploration of an issue of current interest. Topics may include: the formulation and implementation of National Security Policy, international organization and law, structure and function of U.S. intelligence agencies, or revolution and reaction in Latin America. May be repeated with the permission of the Department chair up to a total of six credits.

PSC 297 Capstone in Political Science 2 (2,0,0,0)

This course provides a capstone experience in the field of political science, and provides preparation for both academic and non-academic careers in political science. Prerequisite: Department approval.

PSC 299 Government Internship 3 (0,0,0,9)

Students receive practical experience in both the public and private sector through political internship opportunities, including campaigns and/or governmental agencies.

Psychology

PSY 101 General Psychology 3 (3,0,0,0)

A study of the principles of human behavior, including discussions of motivation, perception, learning and personality development.

PSY 101H General Psychology - Honors 3 (3,0,0,0)

An in-depth study of the principles of human behavior including discussions of motivation, perception, learning and personality development. Emphasis on interactive learning entailing an examination of the self and one's environment through the use of reflective reasoning and dialogue. Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements. Prerequisite: Admission to the Honors program.

PSY 102 Psychology of Personal and Social Adjustment 3 (3,0,0,0)

A study of personality and adjustment in normal persons. Adjustment techniques and reactions to frustration and conflict in the content of various social groups considered.

PSY 200 Introduction to the Psychology Major 1 (1,0,0,0)

An introduction to psychology as a college major, including an overview of topics in psychology, careers in psychology, and preparation for additional study in psychology or closely-related disciplines.

PSY 203 Advanced General Psychology I 3 (3,0,0,0)

Intensive survey of major areas of psychology. Prerequisite: PSY 101.

PSY 206 Business/Industrial Psychology 3 (3,0,0,0)

Introduces material on organizational behavior and personnel psychology including the areas of hiring, evaluation/appraisal of employees and termination.

PSY 207 Psychology and the Family 3 (3,0,0,0)

An investigation of psychological principles as these relate to the solution of family problems, survey of community resources available to the family in need.

PSY 208 Psychology of Human Relations 3 (3,0,0,0)

Explores the relationships between human beings and assists in the development of interpersonal communication skills which can be used personally and professionally.

PSY 210 Introduction to Statistical Methods 4 (4,0,0,0)

Practice with statistical methods especially useful in the presentation and interpretation of psychological, sociological and educational data, including elementary computer applications. Prerequisites: PSY 101 or SOC 101, a grade of "C" or better in MATH 096.

PSY 222 Terrorism and Political Violence 4 (4,0,0,0)

This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, "What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and is in no position to redress the perpetrator's grievances?" The course approaches the issue from four different academic perspectives: history, psychology, sociology, and political science. (Same as PSC 222, HIST 222, or SOC 222.)

PSY 224 Introduction to Latino Psychology 3 (3,0,0,0)

Multicultural view of the various psycho-social challenges facing the immigrant and native-born Latino population in adjusting to life in the United States.

PSY 228 Psychology of Dreams 3 (3,0,0,0)

An introduction to the study of dreams through psychological theory, etiology and interpretation

PSY 233 Child Psychology 3 (3,0,0,0)

A study of the growth and development of the child with special consideration given to theories of learning and personality formation. Prerequisite: PSY 101.

PSY 234 Psychology of Adolescence 3 (3,0,0,0)

A study of the psychological development during adolescence with emphasis on the special problems encountered in our society.

PSY 240 Social Science Research Methods 3 (3,0,0,0)

Critical examination of research methods in social science, including experimental and quasi-experimental designs, correlational methods, clinical research techniques, natural observation, survey methods, and the phenomenological approach. Prerequisite: PSY 101 or SOC 101. (Same as SOC 240.)

PSY 241 Introduction to Abnormal Psychology 3 (3,0,0,0)

An overview of abnormal psychology with emphasis on symptomology, etiology, diagnosis, treatment and prevention.

PSY 261 Introduction to Social Psychology 3 (3,0,0,0)

Discussion of socialization process and change in attitudes and behavior.

PSY 270 Understanding Psychology Through Film 3 (3,0,0,0)

Analysis of different psychological concepts and how they are expressed in popular film media. Specifically, the course will cover families, psychological disorders, counseling approaches, parenting, human development across the life span and alcohol/drug abuse, in the format of film appreciation.

PSY 276 Aging in Modern American Society 3 (3,0,0,0)

Focus on the psychological and sociological development and the changes attendant to the process of aging in society, including theory and research in the field, implications for social policy, and perspectives on death and dying. (Same as SOC 276.)

PSY 298 Capstone Course 1 (0,0,0,3)

This course is designed to integrate theoretical and practical coursework covered in the AA Degree in Psychology. It would also provide preparation for continued academic work in psychology. This is to be the final course in fulfilling the requirements for the degree in psychology. Prerequisite: Department approval.

Physical Therapy**PT 100 Introduction to Physical Therapy 3 (3,0,0,0)**

Introduction to the practice and profession of physical therapy including history, philosophy, role and scope, licensure and ethics. Other topics include documentation, medical terminology and information about other allied health careers.

PT 101B Pilates for Fitness - Level I 2 (1,3,0,0)

Course covers the foundation principles, theory of and instruction in Pilates method exercises using Pilates equipment. This class is designed for all fitness levels. Open enrollment.

PT 102B Pilates for Fitness - Level II 2 (1,3,0,0)

Course provides more in-depth instruction in theory and practice of Pilates method exercises. Emphasis will be on advanced exercises and a full body workout using Pilates equipment. Prerequisite: PT 101B or instructor permission.

PT 104B Dissection Techniques 1-3 (0,2-6,0,0)

Students are introduced to the techniques used in the dissection of tissues for use as prosection materials in physical therapist assistant courses. Enrollment by instructor permission.

PT 105 Musculoskeletal Anatomy Review 1 (0,3,0,0)

Students review selected topics in human anatomy including the musculoskeletal, neurological, cardiovascular and respiratory systems. Restricted to admitted PTA program students.

PT 110 Principles of Kinesiology 2 (2,0,0,0)

Students are introduced to basic kinesiological principles of normal movement and their importance in understanding and implementing treatment programs. Restricted to admitted PTA program students.

PT 111 Problems in Kinesiology 2 (0,6,0,0)

Students develop competencies in identifying anatomical landmarks and symmetry, muscle length relationships and contraction types, joint mechanics and function, neurological control and effects and gait cycle. Restricted to admitted PTA program students.

PT 117 Fundamental Principles for the Physical Therapist Assistant 2 (2,0,0,0)

This course reviews the fundamental principles required for appropriate patient treatment and care. Topics include gait training, mobility and transfer training, wheelchair adjustment, architectural barriers, documentation and patient education. Restricted to admitted PTA program students.

PT 118 Fundamental Procedures for the Physical Therapist Assistant 2 (0,6,0,0)

Students develop competence in fundamental skills including ADL's, transfers, mobility, gait training, architectural barriers, documentation and patient education. Patient age is considered. Restricted to admitted PTA program students.

PT 120 Observation and Measurement Principles for the Physical Therapist Assistant 2 (2,0,0,0)

Introduction to the principles for monitoring patient progress and safety and making recommendations for treatment modifications. Prerequisites: PT 105, 110, 111, 117, 118.

PT 121 Observation and Measurement Procedures 2 (0,6,0,0)

Students develop competencies in observation and measurement techniques including goniometry, manual muscle testing, volumetric measurements, righting and equilibrium reactions and posture, gait and sensory assessments. Prerequisites: PT 105, 110, 111, 117, 118.

PT 122 Psychological-Social Considerations in Patient Care 3 (3,0,0,0)

Introduction to considerations which affect patient rehabilitation. Cultural diversity, work relationships, human relations, geriatric considerations, responses to illness, grieving, death and dying are discussed. Prerequisites: PT 105, 110, 111, 117, 118.

PT 125 Principles of Physical Agents 2 (2,0,0,0)

Introduction to the theory underlying the effects of appropriate application of therapeutic physical agents. Prerequisites: PT 105, 110, 111, 117, 118.

PT 126 Physical Agent Procedures and Practices 2 (0,6,0,0)

Students develop competence in the correct application of therapeutic heat and cold, electrotherapy, intermittent compression, massage, short wave diathermy, traction and ultrasound. Prerequisites: PT 105, 110, 111, 117, 118.

PT 130 Administration in Physical Therapy 2 (2,0,0,0)

Introduction of students to administrative topics important for successful management including levels of authority, management techniques, personality profiles, performance evaluations, fiscal considerations and quality assurance. Prerequisites: PT 105, 110, 111, 117, 118.

PT 134 Clinical Affiliation I 2 (0,0,16,0)

A six-week, full-time clinical affiliation which provides students with an opportunity to practice skills and competencies acquired during their first two semesters of course work. The emphasis of this affiliation is providing direct, hands-on patient care, under the supervision of a physical therapist, using learned fundamental skills. Grades assigned on Pass/Fail basis. Prerequisites: PT 105, 110, 111, 117, 118.

PT 225 Therapeutic Principles for Musculoskeletal Pathologies 3 (3,0,0,0)

Introduction to basic therapeutic principles underlying the treatment of patients with musculoskeletal pathologies. General exercise programs along with specific treatment protocols, and their indications and contraindications will be presented. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 226 Therapeutic Procedures for Musculoskeletal Pathologies 2 (0,6,0,0)

Students are introduced to and develop competence in the application of therapeutic exercise and other procedures used when treating musculoskeletal pathologies. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 238 Pathophysiology I 3 (3,0,0,0)

Review of the inflammatory and healing processes of tissue trauma or disease and the disease process associated with specific musculoskeletal pathologies. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 240 Orthotic and Prosthetic Considerations in Patient Care 1 (1,0,0,0)

Students are introduced to the various types of orthotic and prosthetic devices and their use in patient care. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 244 Clinical Affiliation II 2 (0,0,16,0)

This six-week, full-time (40 hours/week) clinical affiliation is designed to expand the student's knowledge and competencies in treating musculoskeletal pathologies. The emphasis of this affiliation is providing direct, hands-on patient care, under the supervision of a physical therapist, mastering orthopedic skills and competencies learned in the last semester as well as further development of fundamental competencies acquired in previous semesters. Grades assigned on a Pass/Fail basis. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 248 Pathophysiology II 3 (3,0,0,0)

Introduction of students to specific neuromuscular pathologies most commonly treated in the physical therapy clinic. Prerequisites: PT 225, 226, 238, 240, 244, 250, 251.

PT 250 Therapeutic Principles for Cardiopulmonary Pathologies 2 (2,0,0,0)

Introduction to the therapeutic principles underlying the treatment of patients with cardiopulmonary pathologies. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 251 Therapeutic Procedures for Cardiopulmonary Pathologies 1 (0,2,0,0)

Students develop competencies in the application of specific treatment protocols used with cardiopulmonary pathologies. Prerequisites: PT 120, 121, 122, 125, 126, 130, 134.

PT 254 Therapeutic Principles for Neuromuscular Pathologies 3 (3,0,0,0)

Introduction to the therapeutic principles used in the treatment of patients with neuromuscular pathologies. Prerequisites: PT 225, 226, 238, 240, 244, 250, 251.

PT 255 Therapeutic Procedures for Neuromuscular Pathologies 2 (0,6,0,0)

Students are introduced to and develop competencies in the application of specific treatment procedures used with neurologically involved children and adults. Prerequisites: PT 225, 226, 238, 240, 244, 250, 251.

PT 256 Clinical Affiliation III 2 (0,0,16,0)

This six-week, full-time (40 hours/week) clinical affiliation is designed to expand the student's knowledge and competencies in treating neuromuscular pathologies. The emphasis of this affiliation is providing direct, hands-on patient care, under the supervision of a physical therapist, mastering neuromuscular skills and competencies learned in the last semester as well as further development of orthopedic and fundamental competencies acquired in previous semesters. Grades assigned on Pass/Fail basis. Prerequisites: PT 225, 226, 238, 240, 244, 250, 251.

PT 298B Special Topics in Physical Therapy 1 (1,0,0,0)

Students will be introduced to selected topics in rehabilitation medicine that are not covered in the core physical therapist assistant program curriculum.

Radiation Therapy Technology

RDTP 101B Introduction to Radiation Therapy 2 (1,3,0,0)

This course deals with the principles and application of C.T., MRI, ultrasound, PET, bone mineral densitometry, and interventional techniques. Clinical applications and protocols are discussed for each technology. Students will visit oncology wards, nutrition centers and Hospice during this rotation.

RDTP 102B Methodologies I 2 (2,0,0,0)

This course presents a broad theoretical framework for understanding the principles of radiation therapy equipment and lays the groundwork necessary for the practical aspects concerning the use of this equipment. An introduction to the principles and application of multi-leaf collimation and Intensity Modulated Radiation Therapy.

RDTP 103B Introduction to Oncology 1 (1,0,0,0)

An introduction to the clinical institution and the Radiation Therapy Department. Stresses the ethics of the patient/oncologist/therapist relationship, nursing procedures, safety precautions necessary for therapy patients, and the keeping of medical records.

RDTP 105B Principles and Practice of Radiation Therapy 2 (2,0,0,0)

This course addresses the concepts of cancer treatment, focusing primarily on radiation therapy. Methods of improving therapeutic advantages are investigated. Students learn safe and effective use of equipment and accessories along with the rationale for their clinical application. Technical information related to machine development, construction and use are discussed. Students learn about the historical development of radiation generators.

RDTP 115B Caring for the Patient at the End of Life 1 (1,0,0,0)

This course outlines the wide range of clinical experiences used to care for patients at the end of life. The course discusses practical guidance for clinicians, patients, and families about critical communication issues such as delivering bad news, discussing palliative care, making decisions for incapacitated patients, and exploring the wish to die.

RDTP 125B Radiographic Process 2 (2,0,0,0)

This course will provide the student with instruction on the principles of radiation exposure, the processing of films, and the positioning of patients for simulation.

RDTP 150B Introduction to Radiation Physics 2 (2,0,0,0)

Introduction to the fundamentals of physics involved in the operation of radiographic equipment to include units of measurement, matter, energy, mechanics, magnetism, electrostatics, and electrodynamics.

RDTP 180B Radiobiology 3 (3,0,0,0)

A study of the sequence of events following the absorption of energy from ionizing radiation. Factors influencing radiation effects, tissue sensitivity, tolerance, and clinical applications are presented.

RDTP 202B Radiotherapy Physics 3 (3,0,0,0)

This course provides a fundamental understanding of radiation physics relevant to radiation therapy. Topics to be included are particle and photon interactions with matter, units and systems of radiation measurements, radioactivity and radiation production.

RDTP 210B Treatment Planning I 3 (3,0,0,0)

This course introduces the student to the application of the radiation beam to the patient in the therapy environment. Topics include absorption characteristics of the radiation beam in air and in a phantom, beam data and characteristics and an introduction to treatment planning.

RDTP 211B Radiographic Analysis 2 (2,0,0,0)

This course is a presentation of radiographic anatomy as it pertains to the radiation therapist in general. Specific skeletal anatomy will be reviewed with emphasis placed on bony landmarks, terminology, organ reference, surface anatomy and reading and interpreting X-ray port and simulation films.

RDTP 212B Cross Sectional, Topographic and Radiological Anatomy 2 (2,0,0,0)

This course discusses anatomy specifically from an imaging perspective. Students will learn to identify structures and pathology on X-rays, CT and MRI scans and locate landmarks on diagnostic and simulator films.

RDTP 213B Radiation Oncology 3 (3,0,0,0)

This course provides the student with an understanding of the clinical signs, symptoms, epidemiology, routes of spread, pathology, staging system, and management approaches of the major tumor sites in the body. Topics covered include diagnostic and staging work-up, prognostic factors, decision-making skills for treatment options and treatment results.

RDTP 214B Methodologies II 2 (1,3,0,0)

This course deals with relational and cross-sectional anatomy of the head, thorax, abdomen, pelvis, and representative sections of the extremities. In the laboratory component, students will simulate radiation treatment fields of cross-sectional anatomy using C.T., MRI, SPECT, ultrasound, and PET images. This course is designed to move students from a two- to a three-dimensional view of internal and relational anatomy.

RDTP 215B Treatment Planning II 3 (3,0,0,0)

This course is a continuation of Treatment Planning I. Students will be responsible for accurate three-dimensional treatment plans for lung, brain, abdomen, pelvis and extremity cancers. Planning will include wedges, blocks, beam weighting, off axis, boost fields and special techniques.

RDTP 216B Methodologies III 2 (1,3,0,0)

An in-depth study of the rationale, principles, and the methods of quality assurance as they relate to radiation therapy.

RDTP 219B Advanced Radiation Therapy Techniques 2 (2,0,0,0)

Continuation of RDTP 214B to provide the student with the advanced concepts of dosimetry, treatment planning, and patient simulation. Various external beam techniques and applications, depth dose data, and summation of isodose curves will be applied to simulation procedures. Modalities of treatment, immobilization, patient set-up, dose measurement and verification are discussed and practiced.

RDTP 220B Treatment Planning Lab 1 (0,3,0,0)

Students will be responsible for accurate three-dimensional treatment plans for lung, brain, abdomen, pelvis, and extremity cancers. Planning will include wedges, blocks, beam weighting, off axis, boost fields and special techniques.

RDTP 221B Ethics/Law/Professionalism 2 (2,0,0,0)

Establish a basic foundation of professional practice for the radiation therapist as a part of the radiation therapy team. Ethical behavior for caregivers will be discussed. Legal ramifications, case studies, malpractice and ARRT ethics will also be discussed.

RDTP 229B Radiation Therapy Board Review 1 (1,0,0,0)

This course will prepare the student to take the National Registry Exam for Radiation Therapy. The course will go into detail on exam questions. Students will learn how to read and evaluate questions for best results. Students will take mock board exams.

RDTP 230B Clinical Applications I 1 (0,3,0,0)

Patient treatment competencies are discussed and practiced on a simulation machine. Students are introduced to isocenter, depth of treatment, patient localization marks, immobilization devices, patient alignment using lasers.

RDTP 231B Clinical Applications II 1 (0,3,0,0)

Continuation of Clinical Applications I. Students will be assigned four (4) intermediate treatment competencies to be completed under the direct supervision of CSN faculty.

RDTP 232B Clinical Practicum III 3 (0,0,21,0)

Continuation of Clinical Applications II where the student will take the competencies learned in the lab and apply them to actual patients in the clinic. The student responsibilities increase as more complicated competencies are introduced in patient treatments set-ups.

RDTP 233B Clinical Practicum IV 1 (0,3,0,0)

Advanced Clinical Practicum stressing practical application of dosimetry competencies under the direct supervision of a medical physicist or dosimetrist. Continuation of advanced patient treatment competencies under the supervision of a Registered Radiation Therapist.

RDTP 234B Clinical Practicum V 4 (0,0,17,0)

The most advanced clinical practicum as evidenced by the level of competency of the student upon completion of RDTP 233B. Successful completion of this course will ensure that the student is competent upon graduation to assume all of the responsibilities required of a Registered Radiation Therapy Technologist.

Real Estate

RE 101 Real Estate Principles 3 (3,0,0,0)

A course that covers most subjects required for successful passing of the state real estate exam. Satisfies requirements of the Nevada State Real Estate Commission Salesman's exam.

RE 102B Real Estate Math 3 (3,0,0,0)

A general mathematics course designed to assist the student who wishes to pass the state exam as well as the student who wants to be more proficient and knowledgeable in the real estate profession.

RE 103 Real Estate Law and Practice 3 (3,0,0,0)

A law course specifically designed for the field of real estate including agency, contracts, deeds, instruments, easements, estates in land, zoning, restrictions, tenancy, liens, foreclosures, transfers of title, leases and court decisions. One of two courses required by the Nevada Real Estate Commission to take the Salesperson's License exam.

RE 199 Real Estate Investments 3 (3,0,0,0)

Introduction to the mechanics of the real estate business, state, and federal regulations, management, financial statements, formulas, techniques, protection and investment guidelines for the consumer as they relate to the real estate business.

RE 201B Real Estate Brokerage 3 (3,0,0,0)

Study of the factors necessary for the establishment and efficient operation of brokerage offices. Ethics, listing, office location, physical layout, budgeting, records and procedures. One of several courses required by the Nevada Real Estate Commission to take the Broker's exam.

RE 202 Real Estate Financing and Insurance 3 (3,0,0,0)

A study of the procedures and techniques requisite to the analysis of financial real property. The types of financing include conventional, Federal Housing Administration, Veterans' Administration, credit evaluations, interest rates, loan costs and the availability of mortgage money and its competition in the money market. Types of insurance specifically applicable to the real estate industry covered.

RE 203B Tax Aspects of Real Property Transactions 3 (3,0,0,0)

Course covers basic tax law principles governing forms and methods of acquisition of real property. Emphasis is on planning techniques to structure real property transactions to minimize tax liability.

RE 205B Real Property Management 3 (3,0,0,0)

Designed to cover the fundamental principles involved in the management of real property. Topics to be covered include the role of an effective managing agent, accounting systems and financial controls, human relations in property management, leases, developing management checklist and developing effective service techniques.

RE 206 Real Estate Appraising 3 (3,0,0,0)

Course covers basic principles and economic trends, nature of appraisal process, neighborhood and site analysis, site evaluation, residential style and functional utility. Use of cost, income capitalization and market approaches to value and the correlation of the data to arrive at a value estimate. Recommended for those holding a real estate license.

RE 295B, 296B, 297B, 298B Work Experience I, II, III, IV 1-4 (0,0,0,1-4)

Cooperative Education courses designed to provide the student with on-the-job supervised and educationally directed work experience with the Real Estate Program. Each course except 295B will have a prerequisite of successful completion of preceding Work Experience course.

Reading Skills

READ 095 Reading and Improvement 3 (3,0,0,0)

This class will improve fundamental reading skills, including word-attack skills, vocabulary development, reading comprehension, fluency, and interpretation. Extensive opportunities for applying reading strategies for before, during, and after reading will be provided. Critical analysis skills in relationship to various texts will be introduced to guide students toward college level reading. Prerequisite: Placement Test.

READ 135 College Reading Strategies 3 (3,0,0,0)

Improvement of reading comprehension, critical thinking skills, vocabulary, reading rate, and study-reading techniques through reading and analyzing a variety of texts, including book-length works and textbook selections from various areas. Note: May be taken in lieu of the reading portion of the PPST exam by a license holder who has failed the PPST reading portion at least once, when a grade of "B" is obtained at the conclusion of the course. This option is not available to students in teacher education courses

Registered Nurse First Assisting

RNFA 280B Registered Nurse First Assistant 2 (2,0,0,0)

Enhance perioperative nurse's training and skills to pursue the position as a Registered Nurse First Assistant (RNFA). Advanced study covering multi-speciality first assisting. Safety issues, procedures, and RNFA scope of practice issues are covered. Restricted to National Institute of First Assisting students only.

RNFA 281B RNFA SutureStar™ Workshop and Clinical Internship 1 (0,0,8,0)

Intraoperative surgical skills workshop. Mastery of 148 surgical skills sets. Requires a 120-hour supervised clinical internship. Restricted to National Institute of First Assisting students only. Prerequisite: RNFA 280B.

RNFA 295B First Assisting Intraoperative Skills Workshop 3 (1,3,0,2)

Designed to enhance the perioperative nurse's training and skill to pursue the position as a Registered Nurse First Assistant (RNFA). Students will have six days of intensive hands-on training in the surgical skills needed to first assist in the operating room. The registered nurse learns the advanced techniques to assist during a surgical procedure in a controlled setting on a simulated patient, creating a life-like surgical experience.

RNFA 296B First Assisting Clinical Internship I 3 (0,0,4.5,6)

Specific surgical cases include transverse colon resection, total hip arthroplasty, inguinal hernia repair and tubal ligation. Diagnostic studies, intravenous equipment, and drip rates, central and peripheral catheters, central venous pressure, arterial lines, fluid replacement, anesthesia, tissue planes and wound healing will be reviewed. The clinical internship will be enhanced with guided home study, case study representations, record maintenance and journaling.

RNFA 297B First Assisting Clinical Internship II 3 (0,0,4.5,6)

A continuation of RNFA 296B is designed to assist in the enhancement of the perioperative nurse's training and skill to pursue the position as a Registered Nurse First Assistant (RNFA). Internship is enhanced with guided home study, presentation of case studies, maintenance of records and a journal. Prerequisites: RNFA 295B, 296B.

Religious Studies

RST 101 Introduction to Religious Studies 3 (3,0,0,0)

Varieties of religious expression: belief, ritual scripture, art. Religious issues: deity, the sacred, death, evil, salvation. Methods of studying religion.

RST 136 Introduction to Women and Religion 3 (3,0,0,0)

This course studies women as subjects of religion and provides an opportunity for students to examine religion in the context of the gender-specific experiences of women. The course includes the roles of women in a variety of religious groups as well as a study of the myths and symbols relating to women's roles in these religious groups.

RST 150 Abrahamic Religions: Judaism, Christianity, Islam 3 (3,0,0,0)

This course focuses on the major historical developments, structural cosmology, symbolic interpretation, and values of the Abrahamic religions: Judaism, Christianity, Islam.

RST 170 Introduction to Modern Western Paganism 3 (3,0,0,0)

This course introduces Modern Western Paganism. Included are history, sources, traditions, cosmology, practices, rituals, ritual calendars, and rites of passage.

RST 260 Meso American Religions: Jaguars, Serpents, Trees 3 (3,0,0,0)

Introduction to the religions of Meso America using cultural methods such as art and architecture coupled with written sources to explore their unique cosmology.

RST 270 Modern Western Pagan Thought 3 (3,0,0,0)

Exploration of beliefs, values, and ethics of the modern western Pagan community. Includes concepts of deity, nature, magic, ethics, existence, suffering, evil, death, and ecstasy.

RST 295 Topical Issues in Religious Studies 1-3 (1-3,0,0,0)

The topic will vary; however the intent is to develop awareness of and appreciation for certain religious or spiritual paths and/or issues. May be repeated up to six credits.

Russian

RUS 111 First Year Russian I 4 (4,0,0,0)

The development of language skills in listening, speaking, reading and writing; structural analysis. Emphasis is placed on speaking.

RUS 112 First Year Russian II 4 (4,0,0,0)

The development of language skills in listening, speaking, reading and writing; structural analysis. Emphasis is placed on speaking. Prerequisite: RUS 111 or equivalent.

RUS 211 Second Year Russian I 3 (3,0,0,0)

Further development of Russian speaking, listening, reading, writing skills and Russian cultural awareness. Prerequisite: RUS 112 or department approval.

RUS 212 Second Year Russian II 3 (3,0,0,0)

Further advancement of Russian speaking, listening, reading, writing skills and Russian cultural awareness.

Prerequisite: RUS 211 or department approval.

Sustainable Construction**SCT 101B Fundamentals of Sustainability 3 (3,0,0,0)**

A course designed to expose students to fundamental earth cycles, nutrient cycles, and environmental concepts of sustainability. Students will explore energy sources and conventional and alternative resources and how these concepts connect to construction and the built environment.

SCT 105B Sustainable Construction Materials 3 (3,0,0,0)

This course will cover building materials used for the interior and exterior environment of sustainable and non-sustainable construction, to include: mechanical, plumbing, electrical, framing (wood and metal) and insulation systems, insulated concrete forms (ICF), cast-in-place and tilt-up concrete, landscaping (irrigation and planting). Proper methods of installation will be discussed.

SCT 113B Renewable Energy Efficiency 3 (3,0,0,0)

This course will help students learn how the climate affects green building strategies and the differences altitude, longitude and latitude can make in design. Students will also learn when and where to use the correct type of energy generation (solar, wind, geothermal, etc.).

SCT 201B Sustainable Construction of New Buildings 3 (3,0,0,0)

This course will compare the differences between sustainable construction and the traditional method of construction, to include: strategies and economic, environmental and social demands during construction and after construction is completed. Prerequisites: SCT 101B and 105B.

SCT 202B Sustainable Construction of Existing Buildings 3 (3,0,0,0)

This course will cover retrofitting for energy efficiency and sustainable operations of existing buildings, to include both commercial and residential construction remodeling.

Prerequisite: SCT 201B.

SCT 210B Sustainable Technology 3 (2,3,0,0)

This course will assist students to comprehend the utilization of RESNET approved computer rating software program, which includes determining the energy performance of buildings. This course is oriented towards RESNET certification. Prerequisite: BTW 103B.

SCT 290B Legal Development of Sustainable Construction 3 (3,0,0,0)

This is a capstone course which will cover the legal aspects of sustainable construction, to include: the International Code Council (ICC), U S Green Building Council (USGBC), Green Building Rating Systems and more. Students will prepare for the Leadership in Energy and Environmental Design (LEED) exam. Prerequisite: Instructor permission.

Sociology**SOC 101 Principles of Sociology 3 (3,0,0,0)**

Sociological principles underlying the development, structure and function of culture, society, human groups, personality formation and social change.

SOC 101H Principles of Sociology - Honors 3 (3,0,0,0)

An honors-level study of sociological principles underlying the development, structure and function of culture, society, human groups, personality information and social change. Honors emphasizes interactive learning, entailing an examination of the self and one's social and cultural world through the use of reflective reasoning and dialogue. Courses with "H" suffixes are designated honors-level courses and can be used to fulfill equivalent general education requirements. Prerequisite: Admission to the Honors program.

SOC 102 Contemporary Social Issues 3 (3,0,0,0)

An examination of selected social issues and problems, their causes and proposed solutions.

SOC 205 Ethnic Groups in Contemporary Societies 3 (3,0,0,0)

A survey of ethnic relations in the United States and other societies where cultural and racial pluralism illustrates problems and processes of social interaction. Prerequisite: ANTH 101 or SOC 101. (Same as ANTH 205.)

SOC 207 Introduction to Sociological Theory 3 (3,0,0,0)

Examination of the works of classical and contemporary social theorists of the 19th and 20th centuries.

SOC 210 Introduction to Statistical Methods 4 (4,0,0,0)

Practice with statistical methods especially useful in the presentation and interpretation of psychological, sociological and educational data, including elementary computer applications. Prerequisites: PSY 101 or SOC 101, and a grade of "C" or better in MATH 096.

SOC 222 Terrorism and Political Violence 4 (4,0,0,0)

This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, “What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and is in no position to redress the perpetrator’s grievances?” The course approaches the issue from four different academic perspectives: history, psychology, sociology, and political science. (Same as PSC 222, HIST 222, or PSY 222.)

SOC 225 Media and Society 3 (3,0,0,0)

An investigation of the role of the Mass Media and its effects on contemporary society.

SOC 240 Social Science Research Methods 3 (3,0,0,0)

Critical examination of research methods in social science, including experimental and quasi-experimental designs, correlational methods, clinical research techniques, natural observation, survey methods, and the phenomenological approach. Prerequisite: PSY 101 or SOC 101. (Same as PSY 240.)

SOC 241 Introduction to Research Methods 3 (3,0,0,0)

This course provides a broad survey of research methods and the tools needed to critically assess sociological research.

SOC 261 Introduction to Social Psychology 3 (3,0,0,0)

Discussion of socialization process and change in attitudes and behaviors.

SOC 270 Introduction to Deviant Behavior 3 (3,0,0,0)

A survey of the contrasting sociological viewpoints in the field of deviant behavior as applied to a variety of socially stigmatized behaviors.

SOC 275 Introduction to Marriage and the Family 3 (3,0,0,0)

An analysis of the internal and external forces influencing today’s American family. Major topics include love, sex, marriage adjustment, divorce and problems of child rearing. (Same as WMST 275.)

SOC 276 Aging in Modern American Society 3 (3,0,0,0)

The psychological and sociological development and the changes attendant to the process of aging in society; theory and research in the field, implications for social policy and perspectives on death and dying. (Same as PSY 276.)

SOC 281 Computer Applications for the Social Sciences 4 (2,4,0,0)

This course equips students with computer skills needed to compete effectively for new employment opportunities in service organizations and evaluation research (i.e., applications, analysis, data management). Prerequisite: IS 101.

SOC 289 Applied Skills in Sociology 3 (2.5,0,0,4)

Students will develop discipline-specific employability skills including applied research methods, internship procurement and self-presentation. Theory and practice are blended by training in areas of professional interest.

SOC 291 Field Experience in Sociology 1 (0.5,0,0,4)

Program includes formal classroom instruction (substantive and applied components), computer-related tasks, and on-site job training, blending theory with practice. Communication and social interactive skills are developed and practiced. Course may be repeated one time for a total of two credits.

SOC 295 Sociology of the Future 3 (3,0,0,0)

A course designed to provide the student with a sociological perspective on the world in which we live and the emerging trends and issues. There will be an introduction to various models for forecasting future trends with an emphasis on the issues most important to the average person.

SOC 298 Selected Topics in Sociology 3 (3,0,0,0)

Variable content required to respond to specific topic areas in sociology, relationships between sociology and the community, special student interests and needs and faculty expertise.

SOC 299 Capstone Course in Sociology 1 (0,0,0,1)

This course provides a capstone experience in the field of sociology. It integrates coursework covered in the sociology AA degree program and provides preparation for both academic and non-academic careers in sociology. Prerequisite: Instructor permission.

Sonography

SON 101B Basic Sonography 3 (3,0,0,0)

Presents an introduction to sonography, with an emphasis on the role of the sonographer, basic anatomy, physiology, physics, and imaging parameters.

SON 101L Basic Sonography Laboratory 1 (0,3,0,0)

Focuses on the development of skills needed to begin clinical courses.

**SON 102B Basic Cardiac
Sonography 3 (3,0,0,0)**

Presents an introduction to cardiac sonography, with an emphasis on the role of the sonographer, basic anatomy, physiology, physics and imaging parameters. Corequisite: SON 102L.

**SON 102L Basic Cardiac
Sonography Laboratory 1 (0,3,0,0)**

Focuses on the development of skills needed to begin clinical courses.

SON 116B Echocardiography I 3 (3,0,0,0)

Focuses on valvular heart disease, ischemic cardiac disease, cardiomyopathy, pericardial disease, congenital heart disease, and cardiac neoplasms and masses.

**SON 125B Sonographic Physics
and Instrumentation I 3 (3,0,0,0)**

Focuses on basic sonographic principles, with an emphasis on instrumentation.

**SON 135B Cardiovascular
Ultrasound Physics 2 (2,0,0,0)**

This course presents students with advanced cardiovascular principles with an emphasis on cardiac anatomy, physiology, evaluation methods and hemodynamics. The information presented will serve as a resource for the ARDMS exam on cardiovascular principles and instrumentation.

**SON 150B Patient Care for
Imaging Professions 3 (2,3,0,0)**

Focuses on patient care procedures, patient transport and handling, infection control, surgical asepsis, interview and examination techniques, vital signs and emergency procedures and chart and referral evaluations.

**SON 160B Sonographic Scanning
Lab I 2 (0,8,0,0)**

Ultrasound procedures performed in supervised lab on campus.

**SON 190B Sonographic Physics
and Instrumentation II 3 (3,0,0,0)**

Continuation of Sonographic Physics I with emphasis on Doppler physics, including color Doppler, hemodynamics, bio effects, quality assurance/control and sonographic artifacts. Prerequisite: SON 125B.

**SON 195B Sonographic Scanning
Lab II 2 (0,8,0,0)**

Ultrasound procedures performed in a supervised lab on campus.

**SON 210B Abdominal
Sonography I 3 (3,0,0,0)**

Focuses on the anatomy, physiology and pathology of the abdominal organs that can be visualized with ultrasound.

SON 216B Echocardiography II 3 (3,0,0,0)

Continuation of SON 116B with emphasis on cardiac trauma, pulmonary vascular disease, diseases of the aorta and great vessels, transesophageal echocardiography, contrast echocardiography and intraoperative echocardiography.

**SON 220B Abdominal
Sonography II 3 (3,0,0,0)**

Focuses on the anatomy, physiology, and pathology of the urinary system, thyroid, breast, scrotum, prostate and neonatal neurosonography. Prerequisite: SON 210B.

**SON 225B Stress
Echocardiography 3 (3,0,0,0)**

Focuses on the indications, utility, limitations and technical procedures related to stress echocardiology including cardiovascular pharmacology, theory and use of provocative stress agents and non-pharmacologic stress.

**SON 235B Gynecologic
Sonography 3 (3,0,0,0)**

Focuses on the anatomy, physiology and pathology of the female pelvis and reproductive system and sonographic appearance.

**SON 245B Obstetrical
Sonography I 3 (3,0,0,0)**

Focuses on the anatomy, physiology and pathology of pregnancy with emphasis on first trimester pregnancy and complications of first trimester obstetrics. Normal sonographic obstetrical measurements and sonographic appearance of first, second and third trimester pregnancy will also be covered.

**SON 250B Seminar and
Case Review I 2 (2,0,0,0)**

Through the presentation of select cases by students, faculty and radiologists, the multi-facets of diagnostic medical sonography are reviewed and future trends discussed.

**SON 255B Seminar and
Case Review II 2 (2,0,0,0)**

Through the presentation of select cases by students, faculty, and radiologists, the multi-facets of diagnostic medical sonography are reviewed and future trends discussed.

**SON 260B Obstetrical
Sonography II 3 (3,0,0,0)**

Continuation of Obstetrical Sonography I with emphasis on abnormal second and third trimester pregnancy, fetal anomalies, multiple gestation, maternal disease, amniotic fluid, placenta and invasive procedures during pregnancy.

SON 261B Pediatric Echocardiography I 3 (3,0,0,0)

Focuses on fetal, neonatal and pediatric echocardiography including embryology and normal fetal and neonatal cardiac anatomy. Pediatric cardiac pathology, pathophysiology and hemodynamics in various disease processes will be discussed.

SON 262B Pediatric Echocardiography II 2 (2,0,0,0)

Continuation of Pediatric Echocardiography I with special emphasis on contrast agents, specialized pediatric patient care, pediatric transesophageal echocardiography and surgical procedures utilized for pediatric cardiac anomalies.

SON 270B Small Parts/Pediatric Sonography 2 (2,0,0,0)

Focuses on the anatomy, physiology and pathology of the thyroid, breast, scrotum, prostate, and neonatal brain. Pediatric spine, abdomen, kidneys, hips, and gastrointestinal system as imaged on ultrasound will be discussed.

SON 275B Vascular Sonography I 3 (3,0,0,0)

Focuses on duplex and color Doppler imaging of the extracranial cerebral and peripheral vessels of the vascular system as well as the physiology and sonographic appearance of normal anatomy and pathology. Corequisite: SON 275L.

SON 275L Vascular Sonography Laboratory I 1 (0,4,0,0)

Focuses on the use of “Direct Testing” methods in the performance of vascular ultrasound procedures in a supervised lab on campus.

SON 276B Vascular Sonography II 3 (3,0,0,0)

Continuation of SON 275B (Vascular Sonography I), with an emphasis on the use of “Indirect Testing” ultrasound evaluation of the vascular system in the upper and lower extremities; and transcranial Doppler. Plethysmography of extremity vessels will also be discussed. Corequisite: SON 276L.

SON 276L Vascular Sonography Laboratory II 1 (0,4,0,0)

Focuses on the use of “Indirect Testing” methods in the performance of vascular ultrasound procedures in a supervised lab on campus.

SON 280B Sonographic Clinical Practicum I 2 (0,0,16,0)

Provides 16 hours per week of supervised ultrasound clinical experience.

SON 281B Sonographic Clinical Practicum II 2 (0,0,16,0)

Provides 16 hours per week of supervised ultrasound clinical experience. Prerequisite: SON 280B.

SON 282B Sonographic Clinical Practicum III 3 (0,0,24,0)

Provides 24 hours per week of supervised ultrasound clinical experience. Prerequisite: SON 281B.

SON 283B Sonographic Clinical Practicum IV 3 (0,0,24,0)

Provides 24 hours per week of supervised ultrasound clinical experience. Prerequisite: SON 282B.

SON 284B Sonographic Clinical Practicum V 3 (0,0,24,0)

Provides 24 hours per week of supervised ultrasound clinical experience. Prerequisite: SON 283B.

SON 290B Sonography Registry Review 2 (2,0,0,0)

A review of material covered in all previous sonography courses. Designed to prepare students to take the Abdominal, Obstetrics and Gynecology, and Ultrasound Physics and Instrumentation registries.

SON 291B Cardiac Registry Review 2 (2,0,0,0)

Review of all course content for Cardiac/Vascular program with emphasis on registry question.

Spanish

SPAN 101B Basics of Spanish I 3 (3,0,0,0)

An introductory Spanish course emphasizing spoken communication and development of elementary structures in Spanish. It may not transfer to other institutions.

SPAN 102B Basics of Spanish II 3 (3,0,0,0)

A continuation of the basic language skills learned in SPAN 101B, emphasizing spoken communication and development of elementary structures in Spanish. Course may not transfer to other institutions. Prerequisite: SPAN 101B.

SPAN 105B Spanish for Health Professions I 3 (3,0,0,0)

An introductory course emphasizing spoken communication. Students study basic grammatical concepts in a variety of practical settings and specialized vocabulary needed by personnel in the health professions.

SPAN 106B Spanish for Health Professions II 3 (3,0,0,0)

A continuation of Spanish 105B; students continue studying specialized vocabulary and basic grammatical concepts needed by health professions personnel and apply it in practical settings.

SPAN 109B Spanish for Law Enforcement I 3 (3,0,0,0)

Emphasizes spoken communication, including the specialized vocabulary and basic grammatical concepts needed by Law Enforcement personnel. Will provide applications of Spanish in situations ranging from domestic violence to reading the Miranda warning.

SPAN 111 First Year Spanish I 4 (4,0,0,0)

A beginning level Spanish course emphasizing the development of language skills (listening, speaking, reading, and writing) and cultural understanding. Emphasis on basic communication.

SPAN 112 First Year Spanish II 4 (4,0,0,0)

This is the second semester of first-year Spanish concentrating on the development of language skills in the present and simple past tenses (listening, speaking, reading and writing) and cultural understanding. Emphasis on basic communication. Prerequisite: SPAN 111.

SPAN 126 Introduction to Spanish for Heritage Speakers 3 (3,0,0,0)

This course focuses on expanding intermediate-level vocabulary, developing oral skills, and exploring basic grammatical concepts to prepare students for second year courses. The course was designed for students who grew up, or spent significant amounts of time, in a Spanish-speaking environment.

SPAN 211 Second Year Spanish I 3 (3,0,0,0)

The development of intermediate language skills using a variety of tenses (listening, speaking, reading, and writing) and cultural understanding. Emphasis on incorporation of intermediate communication. Prerequisite: SPAN 112.

SPAN 212 Second Year Spanish II 3 (3,0,0,0)

The development of intermediate language skills using a comprehensive variety of tenses (listening, speaking, reading, and writing) and cultural understanding. Emphasis on mastery of intermediate communication. Prerequisite: SPAN 211.

SPAN 215 Intermediate Spanish Conversation I 3 (3,0,0,0)

Designed to continue and improve the oral communication and listening skills of the student who has completed Spanish 212 or has the equivalent knowledge.

SPAN 216 Intermediate Spanish Conversation II 3 (3,0,0,0)

Designed to continue and improve the oral communication and listening skills of the student who has completed Spanish 212 or 215 or has the equivalent knowledge.

SPAN 223 Spanish Caribbean Culture 3 (3,0,0,0)

This course examines historical, cultural, and social developments of the Spanish Caribbean from pre-Hispanic times to the present. Topics include history, traditions, ethnicity, literature, arts, religion, politics, music, and food. (Same as LAS 223.)

SPAN 224 Mexican Culture 3 (3,0,0,0)

This course focuses on elements that contribute to the formation of the culture and identity of the Mexican nation: history, religion, music, art, food, movies and TV, traditions, celebrations and folklore, social realities, and the relationship with the U.S. Taught in English. (Same as LAS 224.)

SPAN 226 Spanish for Heritage Speakers I 3 (3,0,0,0)

Designed for students who have an informal training in Spanish, but little or no formal instruction. Emphasis on grammar, transfer of literacy skills, vocabulary enrichment and cultural awareness.

SPAN 227 Spanish for Heritage Speakers II 3 (3,0,0,0)

Designed for students who have an informal training in Spanish, but little or no formal instruction. This course continues to examine the topics and skills from SPAN 226: Emphasis on grammar, transfer of literacy skills, vocabulary enrichment and cultural awareness.

Spelling Skills

SPEL 095 Spelling Skills I 3 (3,0,0,0)

Develops essential spelling skills. Emphasis is on learning, practice and retention of basic spelling rules.

SPEL 097 Spelling Skills II 2 (2,0,0,0)

This class offers a variety of approaches to help students master the spelling of troublesome words. Some of the approaches include: learning principles, pairing, mnemonic devices, rhyme, definition, repetition, pronunciation. Prerequisite: SPEL 095.

Surgical Technology

SRGT 101B Introduction to Surgical Technology 1 (1,0,0,0)

Roles and responsibilities of the Surgical Technologist are discussed, defined, and explored. Includes hands on demonstrations pertaining to the field of Surgical Technology. Discussion of the educational requirements, certifications, job description, and job outlook of the profession.

SRGT 103B Pharmacology for the Surgical Technologist 2 (2,0,0,0)

Scientific principles of biological science, pharmacology, and anesthetic agents. Defines the rationale for the use of specific drugs, their therapeutic effects and major side effects on the surgical patient, and how they may alter or influence surgical intervention. Prerequisite: Acceptance into the program.

SRGT 105B Surgical Interventions I 5 (4,3,0,0)

Introduces knowledge of specific basic surgical procedures routinely performed in the operating room. Practical experience in basic core surgical procedures will be performed, practiced, and evaluated in preparation for entry into the clinical practicum in surgical procedures.

SRGT 106B Surgical Fundamentals I 3 (3,0,0,0)

Surgical indications, principles of asepsis, ethical, legal, and moral responsibilities, as well as safe patient care, principles of operating room techniques (including hazards in the surgical suite), and biotechnological sciences are defined.

SRGT 108B Central Services Practicum 0.5 (0,0,4,0)

The student will be directly involved in the cleansing, sorting, wrapping, packaging and sterilization of surgical instrumentation and supplies. The student will gain an understanding of the functions of central supply and surgical support staff in relation to the preparation and coordination of sterile supplies. Prerequisites: SRGT 103B, 105B, 105L, 106B, 114B, 114L

SRGT 114B Principles and Practices of Surgical Technology I 3 (2,3,0,0)

Basic concepts necessary to establish, maintain, and coordinate methods required for good patient care preoperatively, intraoperatively, and postoperatively. Principles of operating room techniques and surgical indications are included.

SRGT 204B Principles and Practices of Surgical Technology II 3 (2,3,0,0)

Defines proper protocol for performance in other roles in the surgical suite. Further understanding of patient care to include laboratory results, specimen care, vital signs, diagnosis, preps and shaving, catheterization, and wound care and classifications. Understand and define proper protocols for emergency situations in the surgical suite. Prerequisite: SRGT 114B.

SRGT 205B Surgical Interventions II 5 (4,3,0,0)

Expanding skills to include specialty surgical procedures routinely performed in the operating room. Practical experience in specialty surgical procedures will be performed, practiced, and evaluated. Prerequisite: SRGT 105B.

SRGT 206B Surgical Fundamentals II 3 (3,0,0,0)

Focus on the professional aspects of the field. With emphasis on psychosocial behaviors necessary to function as an entry level Surgical Technologist. Prerequisite: SRGT 106B.

SRGT 207B Clinical Practicum I 3 (0,0,24,0)

The student will be assigned to specific preceptors to perform in the function of a surgical technologist. The student will actively assist in selection of equipment and supplies, perform surgical scrub, and become a functioning member of the sterile team. The student will progress through specific basic core surgical specialties developing and enhancing skills needed to function as a practicing surgical technologist. Prerequisite: SRGT 108B.

SRGT 210B Clinical Practicum II 2 (0,0,16,0)

Student will progress through progressively complex procedures gaining experience and competency in the position of the Surgical Technologist. Prerequisite: SRGT 207B.

Statistics

STAT 152 Introduction to Statistics 3 (3,0,0,0)

Basic probability and statistical methods with applications (possibly with computers and the internet); correlation, descriptive statistics, experiments, graphical presentation of data, hypothesis and significance testing, linear regression, point and interval estimation, sampling, and/or other related and special topics. Prerequisites: MATH 124 or MATH 126 or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

Surgical Technology Surgical Assisting

STFA 295B Intraoperative First Assistant Skills Workshop 3 (1,3,0,2)

This course is designed to provide the First Assistant candidate with the intellectual concepts and the manual techniques necessary to assume the role of first assisting. The expanded functions unique to the surgical technologist first assistant are emphasized and include providing exposure to tissue handling, suturing, providing hemostasis and using surgical instruments. Manual dexterity and intellectual knowledge are combined to prepare the qualified surgical technologist with essential skills necessary to function in this expanded role. Selected home study topics related to first assisting are included.

**STFA 296B First Assisting
Clinical Internship I 3 (0,0,4.5,6)**

This course guides the experienced surgical technologist through the required number of surgical cases. The clinical internship is enhanced with guided home study, presentation of case studies, maintenance of records and a journal. Specific surgical cases to be studied include but are not limited to transverse colon resection, total hip arthroplasty, inguinal hernia repair and tubal ligation. Diagnostic studies, intravenous equipment and drip rates, central and peripheral catheters, central venous pressure, arterial lines, fluid replacement therapy, local and general anesthesia, tissue planes and wound healing are reviewed. Selected home study topics related to first assisting are included.

**STFA 297B First Assisting
Clinical Internship II 3 (0,0,4.5,6)**

This course guides the experienced surgical technologist through the required number of surgical cases. The clinical internship is enhanced with guided home study, presentation of case studies, maintenance of records and a journal. Specific surgical cases to be studied include, but are not limited to, thoaracotomy/Rt. Upper lobectomy, simple nephrectomy, bilateral reduction mammoplasty and lumbar laminectomy. Hemostasis, surgical complications and shock are reviewed. Selected home study topics related to surgical first assisting are included. Prerequisites: STFA 295B, 296B.

Tourism and Convention Administration**TCA 100B Concierge Management -
Business Operations and
Customer Service 3 (3,0,0,0)**

This course is an overview of professional duties of corporate, business and hospitality concierges. Focus will be on interpersonal relationships, guest transactions, customer and concierge services.

**TCA 101B Concierge Software
Applications
and Operations 3 (3,0,0,0)**

This course is designed to familiarize students with the fundamentals of a comprehensive software program. The student will learn how to access information, manage events, use the logbook and message center, as well as establish patron profiles and administrative functions.

**TCA 110 Introduction to the
Convention Industry 3 (3,0,0,0)**

Overview of the convention industry, including meetings, trade shows, conferences and incentive travel. Role of the suppliers to the industry also covered. Course provides practical insights into the role of association and corporate meeting planners.

TCA 141 Travel and Tourism I 3 (3,0,0,0)

Survey of travel and tourism; focus on concepts, terminology, demographics, financial significance and trends.

**TCA 180 Hotel, Restaurant
and Casino Marketing 3 (3,0,0,0)**

An introduction to the marketing of hotels, restaurants and casinos. Special attention is given to sales, public relations, advertising, promotions, merchandising and entertainment.

**TCA 183 Conference and
Convention Planning 3 (3,0,0,0)**

Practical insight into the different types of conferences and conventions, the types of organizations that stage such events and how to reach and sell to these different groups. Students will learn how to analyze a hotel and convention property along with other venues, and how to successfully service the various segments of the meeting planning industry.

TCA 188 Special Events Planning 3 (3,0,0,0)

Overview of special event planning for events such as festivals, fairs, fund raisers, family occasions, civic celebrations, athletic competitions, parades, and theme parties. Students will learn organizational skills, and creativity in the design, planning, marketing, and staging of an event.

**TCA 190 Introduction to
Destination Marketing 3 (3,0,0,0)**

Study of Convention and Visitors Bureaus on a domestic level and National Tourism Organizations on an international level to examine economic impact of visitor markets and advertising, promotion, sales and public relations.

TCA 200 Airlines Reservations 3 (3,0,0,0)

An introduction to Computer Reservation Systems (CRS) used in the airline/travel agent industries. Emphasis will be on specialized airline computer terminology.

**TCA 201 Hospitality
Career Development 3 (3,0,0,0)**

Prepares students for fulfilling balanced careers as hospitality professionals. Takes a strategic orientation to career planning (3 to 5 years) by facilitating students developing a personal mission statement and relevant strategies for designing and living a satisfying whole life. Prerequisites: HMD 101 and ENG 100, 101, or 113.

TCA 221 Hospitality Accounting I 3 (3,0,0,0)

Hospitality accounting principles and practices pursuant to the industry's uniform system of accounts. Prerequisite: ACC 201.

TCA 222 Wedding Planning 3 (3,0,0,0)

Students will learn the business of wedding planning to include creating a guest list, hiring vendors, and creating a beautiful wedding event. Students will gain practical knowledge of traditional, non-traditional, and destination wedding planning.

TCA 225 Introduction to International Tourism 3 (3,0,0,0)

Study of international travel and tourism. Focuses on the economic, social, political and environmental considerations of international tourism management and development. International tourist destinations are explored.

TCA 241 Travel and Tourism II 3 (3,0,0,0)

Evaluates the economic, social and political impact of tourism and travel, including markets, transportation, media, destination development and the interrelationship of cooperating agencies.

TCA 242 Travel Industry Operations 3 (3,0,0,0)

Examination of services and functions of retail and wholesale travel agencies. Agency administration, ticketing, accounting, promotion, travel counseling, selling, and procedures will be covered. Field trips will supplement classroom discussions.

TCA 251 Tourism and Convention Externship 3 (1,0,0,8)

On-site career orientation and training program in the following areas: convention/meeting/trade shows, transportation fields, destination management/marketing, hospitality/casinos, accounting/finance, club, hotel catering, entertainment, theme parks or tourism.

TCA 276 Introduction to Trade Show Operations 3 (3,0,0,0)

Overview of the trade show industry. Students will learn how to develop, plan, create and evaluate domestic and international trade shows. Students will also learn how to promote and sell to attendees and exhibitors.

TCA 289 Introduction to Corporate Meetings and Events 3 (3,0,0,0)

Students will learn how to become successful corporate meeting planners. Students will be able to produce and market a variety of industry functions such as company events, new product/service launches, customer relations functions, and tools to evaluate an event performance.

TCA 295 Work Experience in Tourism and Convention Industry 1 (0,0,0,1)

In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV's 1000 hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to up to a maximum of four credits. Grade will be given upon verification of employment.

Thai

THAI 101 Basics of Thai I 3 (3,0,0,0)

Introduction to Thai language and culture. A course focusing on spoken communication and the development of language skills in listening, speaking, and structural analysis. Emphasis on the student's acquisition and control of the basic sound structures and simple sentences. A vocabulary of Thai-English words developed. Oral emphasis.

THAI 111 First Year Thai I 4 (4,0,0,0)

The development of language skills in listening, speaking, reading and writing; structural analysis. Oral Emphasis.

Theatre

THTR 100 Introduction to Theatre 3 (3,0,0,0)

Survey of dramatic literature and history emphasizing the development of drama from Greek to the contemporary. Critical analysis of all phases of theatre production including acting, directing and playwriting.

THTR 102 Introduction to Stage Voice 3 (3,0,0,0)

Voice work for presentation and the stage, in theory and practical application. Focus, breath, awareness, phonation, resonance and articulation.

THTR 105 Introduction to Acting I 3 (3,0,0,0)

Interpretation of the drama through the art of the actor. Development of individual insights, skill, and disciplines in the presentation of dramatic materials to the audience and the learning of the basic exercise for the actor.

THTR 199 Play Structure and Analysis 3 (3,0,0,0)

THTR 199 provides students with a close, careful analysis of the great plays of the Western world. Focus will be on the major components of dramatic structure and style. Students will analyze a broad range of drama, which will deepen their understanding of the major historical, philosophical, and cultural trends in drama from the Classical to Contemporary period.

THTR 204 Theatre Technology I 3 (3,0,0,0)

Fundamentals of technical theatre production. Emphasis on theatre shapes, personal organization, techniques of scenic and prop construction and graphics.

THTR 205 Introduction to Acting II 3 (3,0,0,0)

Continuation of THTR 105 including the performance of selected scenes. Prerequisite: THTR 105.

THTR 209 Theatre Practicum 1-6 (0,0,0,1-6)

Rehearsal/Performance. Evaluation credit for being cast, rehearsing and performing in departmental theatre production. Prerequisite: Instructor permission.

THTR 214 Theatre Technology II 3 (3,0,0,0)

Continuation of Stagecraft I including scene painting, lighting and sound. Prerequisite: THTR 204.

Veterinary Technology**VETT 101B Introduction to Animal Health Technology 1 (1,0,0,0)**

Orientation to career field covering ethical and legal aspects, maintenance and treatment of animals, species and breed identification, professional organization/publications, and introduction to veterinary terminology. Prerequisite: Admission to Veterinary Technology Program.

VETT 105B Veterinary Medical Terminology 1 (1,0,0,0)

An introduction to word derivation and formation of medical terminology with emphasis on applications in veterinary medicine. Prerequisite: Admission to Veterinary Technology Program.

VETT 110B Clinical Anatomy and Physiology I 4 (2,6,0,0)

Clinical anatomy and physiology of common species of animals. Prerequisite: Admission to Veterinary Technology Program.

VETT 112B Clinical Anatomy and Physiology II 4 (2,6,0,0)

Continued study of clinical anatomy and physiology of common species of animals. Prerequisite: VETT 110B.

VETT 125B Veterinary Office Clinic Procedures 2 (2,0,0,0)

Basic bookkeeping and business procedures; inventory control; personnel management; history taking; veterinary medical records. Prerequisite: Admission to Veterinary Technology Program.

VETT 127B Basic Animal Nursing 4 (3,3,0,0)

Introductory nursing techniques; physical exam; administration of medications; sanitation and hygiene, psychological needs of animals; animal husbandry, biological sampling. Prerequisite: Admission to Veterinary Technology Program.

VETT 203B Veterinary Clinical/General Pathology 4 (3,3,0,0)

Basic urinalysis, hematological evaluations, identification of common blood, internal and external parasites, basic serological testing, essentials of veterinary microbiology, necropsy techniques, and other related laboratory evaluations. Corequisite: VETT 209B. Prerequisite: Admission to Veterinary Technology Program.

VETT 205B Diagnostic Imaging 2 (1,3,0,0)

Principles of radiology in diagnosis and treatment. Operation of equipment for diagnostic procedures; principles of Nevada and Federal safety regulations; proper utilization of safety equipment around an x-ray source; operation of an automatic film developer, critique and analysis of radiographic films; basic introduction to ultrasound and other advanced imaging techniques. Prerequisite: Admission to the Veterinary Technology Program.

VETT 208B Lab Animal Science and Exotics 2 (1,3,0,0)

Experimental methods and techniques, special care procedures for non-domestic companion animals and breeding principles unique to research are covered. Federal policies and procedures with respect to laboratory animals and the Federal Animal Welfare Act are also covered. Prerequisite: Admission to Veterinary Technology Program.

VETT 209B Parasitology 1 (1,0,0,0)

Life cycles and identification of internal and external parasites. Corequisite: VETT 203B.

VETT 211B Animal Nutrition 2 (2,0,0,0)

Normal and therapeutic nutritional needs of various species of animals and ration formulation are covered. Prerequisite: Admission to Veterinary Technology Program.

VETT 225B Pharmacology and Toxicology 2 (2,0,0,0)

Basics of veterinary pharmacology and toxicology; handling, storing and documenting controlled substances; vaccination; routes and methods of drug administration based on a systems-oriented approach. Prerequisite: Admission to Veterinary Technology Program.

VETT 227B Advanced Animal Nursing 4 (3,3,0,0)

Physiologic principles of intensive care nursing; bandaging; casting, hemodynamic monitoring; care of critical and intensive care patients. Prerequisite: Admission to Veterinary Technology Program.

VETT 230B Principles of Asepsis 1 (1,0,0,0)

Aseptic surgical preparations; utilization of sterile techniques; anesthetic equipment and pharmaceuticals; cleaning and preparation of surgical supplies and facilities. Prerequisite: Admission to Veterinary Technology Program.

VETT 235B Surgical, Anesthesia and Dental Procedures 4 (3,3,0,0)

Pre and post operative care; surgical procedures and assisting; basic anesthetic techniques including induction and monitoring; basic dental care and prophylaxis. Prerequisite: Admission to Veterinary Technology Program.

VETT 240B Large Animal Procedures 2 (2,0,0,0)

Veterinary procedures for large animals, restraint safety, nursing consideration, surgical preparation and assisting. Prerequisite: Admission to Veterinary Technology Program.

VETT 250B Critical Care/ER 3 (2,3,0,0)

Advanced knowledge of emergency conditions, response, and treatment. Prerequisite: Admission to Veterinary Technology Program.

VETT 260B Directed Clinical Practice I 2 (0,0,8,0)

Basic animal health theory and skills applied in a clinical setting. Grades assigned on Pass/Fail basis. Prerequisite: Admission to Veterinary Technology Program.

VETT 265B Directed Clinical Practice II 2 (0,0,8,0)

Advanced animal health theory and skills applied in a clinical setting. Grades assigned on Pass/Fail basis. Prerequisite: Admission to Veterinary Technology Program.

VETT 266B Directed Clinical Practice for Certificate of Achievement Students 2 (0,0,8,0)

Animal health theory and skills applied in a clinical setting. Grades assigned on Pass/Fail basis. Prerequisite: Admission to Veterinary Technology Alternate Program.

VETT 299B Independent Study 1-4 (1-4,0,0,0)

Covers selected topics of interest to veterinary technician students. Prerequisite: Consent of the instructor.

Vocabulary Skills

VOC 095 Vocabulary Skills I 3 (3,0,0,0)

Designed to broaden the student's range of English vocabulary. Emphasis is placed on word recognition, misused words, basic Latin and Greek roots.

VOC 097 Vocabulary Skills II 3 (3,0,0,0)

Strategies for the mastery of vocabulary words useful for the academic and employment world. Prerequisite: VOC 095.

Welding

WELD 115B Welding Inspection and Testing Principles 3 (2,2,0,0)

Provides classroom and laboratory instruction in common destructive and non-destructive testing methods used to determine the quality and soundness of welds.

WELD 116B Ultrasonic Nondestructive Testing - Level I 3 (2,2,0,0)

Covers ultrasonic testing of material, including theory, terminology, principles, and applications. Course meets 40-hour requirement for ASNT Level I inspector. Prerequisite: WELD 115B.

WELD 130B Welding Support Equipment Operations 3 (2,2,0,0)

Covers service, set up, operation and troubleshooting of welding support equipment including: ironworkers, drill presses, mag drills, grinders, bandsaws, cranes and rigging.

WELD 131B Blueprint Reading, Layout and Sketching 3 (3,0,0,0)

Provides instruction in the interpretation, reading and understanding of blueprints, drawings, weld symbols, fabrication layout and free hand sketching commonly used in the welding trade.

WELD 132B Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations 2 (1,3,0,0)

Provides classroom and laboratory instruction in oxy/fuel, plasma and CAC-A cutting applications. Topics include lay-out, base metal preparation, and machine and hand cutting operations.

WELD 133B SMAW (Stick) 4 (1,6,0,0)

Provides classroom and laboratory instruction in skill development and proficiency of Shielded Metal Arc Welding of mild steel plate in all positions.

WELD 134B GTAW (Tig) 4 (1,6,0,0)

Provides classroom and laboratory instruction in the proper techniques, skill development and proficiency of GTA Welding of mild steel, aluminum and stainless steel gage material in various positions.

WELD 135B GMAW (Mig) 2 (1,3,0,0)

Provides classroom and laboratory instruction in the proper techniques, skill development and proficiency of GMAW of mild steel and aluminum in various positions.

WELD 137B FCAW (Flux Core) 2 (1,3,0,0)

Provides classroom and laboratory instruction in the proper techniques, skill development and proficiency of FCAW-S and FCAW-G of mild steel in various positions.

WELD 154B D1.1 Structural Welding Code 3 (3,0,0,0)

Provides extensive classroom instruction on the AWS D1.1 Structural Welding Code, covering topics such as Procedure Qualification Records, Weld Procedure Specifications, welded connections, fabrication and inspection.

WELD 214B Fabrication Layout 3 (1,4,0,0)

Provides instruction on basic fabrication principles, safety, measurement, layout techniques using blueprints and weld symbols and the use of common fabrication tools and associated equipment. Prerequisites: WELD 131B, 132B, 133B or instructor approval.

WELD 218B Pipe Welding Procedures 4 (1,6,0,0)

Provides instruction on the proper techniques, skill development and proficiency of pipe welding using SMAW fillet and pipe groove welds on plate/pipe in all positions. Prerequisite: WELD 133B or instructor approval.

WELD 219B Ornamental Iron 3 (1,6,0,0)

This class is designed for the do-it-yourself individual who wishes to use his or her knowledge of welding as an addition to his/her own field in the art of ornamental iron fabrication.

WELD 223B Special Topics in Welding Technology 2-6 (1-5,3-6,0,0)

Custom designed course content in welding technology with variable credit for managers, technicians, engineers, labor groups and others. Variable start times and dates.

WELD 240B Advanced GTAW 4 (1,6,0,0)

Provides instruction on the proper techniques and skill development of advanced GTAW with emphasis on pipe fillet and groove welds on plate/pipe in various positions.

WELD 270B Welding Certification Preparation 1 (0,2,0,0)

This course prepares experienced welders for qualification (certification) to welding codes AWS, ASME IX, and API 1104. May be taken up to a maximum of four credits. Prerequisite: Instructor approval.

Women's Studies**WMST 101 Introduction to Women's Studies 3 (3,0,0,0)**

Introduces the methods and concerns of women's studies drawing from history, psychology, sociology, law and language concerns.

WMST 113 Gender, Race, and Class 3 (3,0,0,0)

Interdisciplinary, cross-cultural survey of the ways in which gender interacts with race, age, class, and sexuality to shape human consciousness and determine the social organization of human society.

WMST 113H Gender, Race, and Class - Honors 3 (3,0,0,0)

Interdisciplinary, cross-cultural survey of the ways in which gender interacts with race, age, class, and sexuality to shape human consciousness and determine the social organization of human society. Emphasis on interactive learning entailing an examination of the self and one's environment through the use of reflective writing and dialogue. Prerequisite: Admission to the Honors program.

WMST 180 The Economics of Discrimination 3 (3,0,0,0)

The Discrimination of Economics investigates the economic causes, effects, and remedies of discrimination based on categories such as age, ethnicity, gender, religion, national origin, or sexuality. (Same as ECON 180.)

WMST 247 Philosophy and Women 3 (3,0,0,0)

Variety of philosophical writings by or about women, from Plato to the present, focusing on such key concepts as nature, equality, dignity, freedom, love and self-realization. May include feminist critique of the western philosophical tradition. (Same as PHIL 247.)

WMST 250 Introduction to Feminist Theory 3 (3,0,0,0)

American feminist thought in its diversity, examining the differences among liberal, radical, Marxist, socialist, psychoanalytic, and postmodern feminism and the challenges to each posed by women of color.

WMST 255 The American Women's Movement 3 (3,0,0,0)

Introduction to American women's history and politics focusing on race, gender, and class relations, and the legal and economic status of women.

WMST 275 Introduction to Marriage and Family 3 (3,0,0,0)

An analysis of the internal and external forces influencing today's American family. Major topics include love, sex, marriage adjustment, divorce, and problems of child rearing. (Same as SOC 275.)

WMST 285 History of Witchcraft 3 (3,0,0,0)

The study of the figure of the witch from ancient times to the present, and the historical, religious, and social context from which it emerged. The course includes Paleolithic and Neolithic religion, witches in ancient cultures, formulation of the Christian witch concept, the witch hunt in Early Modern Europe and in the British North American colonies, and modern neo pagan witchcraft. (Same as HIST 285.)

WMST 286 Goddess Traditions 3 (3,0,0,0)

A study of goddess images in a variety of cultures from prehistory to the modern age including the history, values, beliefs, practices, and ethics systems associated with goddess imagery. (Same as HIST 286.)

WMST 295 Special Topics 1-3 (1-3,0,0,0)

Intensive study of a major topic in women's studies. May be repeated to a maximum of 6 credits.

This degree prepares students for employment as a Journeyman Bricklayer with the Bricklayers Union. **This is a restricted entry program. Students MUST be indentured in the Bricklayers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable bricklayer tools.
- Comprehend and utilize formulas used in the calculations of all phases of brick laying.
- Demonstrate the ability to troubleshoot and repair any problems that arise with brick laying installations.

GENERAL EDUCATION REQUIREMENTS (33-35 Credits):

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	6	_____	BRL 101B Bricklayers' Apprentice I	4	_____
ENGLISH: ENG 101, 102, 107	6	_____	BRL 102B Bricklayers' Apprentice IB	4	_____
HUMAN RELATIONS ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____	BRL 105B OSHA/First Aid/CPR for Bricklayers	3	_____
MATHEMATICS: MATH 116	3	_____	BRL 151B Bricklayers' Apprentice II	4	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____	BRL 152B Bricklayers' Apprentice IIB	4	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____	BRL 201B Bricklayers' Apprentice III	4	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	BRL 202B Bricklayers' Apprentice IIIB	4	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any BRL journeyman course offered for credit may be substituted for any of the above BRL apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Bricklayers' Trade Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. BRCKTD-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



This degree prepares students for employment as a Journeyman Carpenter with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable carpentry tools.
- Comprehend and utilize formulas used in the calculations of all phases of carpentry work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with carpentry installations.

GENERAL EDUCATION REQUIREMENTS (25-27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, ENV 101, GEOG 103,104, GEOL 100, PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 105B Basic Wall Framing	1.5	_____
CPT 107B Print Reading	2	_____
CPT 109B Basic Roof Framing	1.5	_____
CPT 111B Wall Forming	1.5	_____
CPT 113B Doors and Door Frames	1.5	_____
CPT 115B Transit Level/Laser	2	_____
CPT 117B Foundations and Flat Work	1.5	_____
CPT 119B Bridge Construction	1.5	_____
CPT 121B Stair and Ramp Forming	1.5	_____
CPT 123B Beam and Deck Forming	1.5	_____
CPT 125B Cabinet Millwork and Assembly	1.5	_____
CPT 127B Commercial Floor Framing	1.5	_____
CPT 129B Advanced Print Reading	2	_____
CPT 131B Cabinet Installation	2	_____

Plus eight (8) credits from the following:

CPT 133B Moldings and Trim	1.5	_____
CPT 135B Tilt-Up Panel Construction	1.5	_____
CPT 137B Rigging	2	_____
CPT 141B Basic Metal Framing	1.5	_____
CPT 143B Door and Door Hardware	1.5	_____
CPT 145B Scaffold Erector Qualification	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any CPT journeyman course offered for credit may be substituted for any of the above CPT apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Carpentry Trade Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CART-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Cement Mason with the Cement Masons Union. **This is a restricted entry program. Students MUST be indentured in the Cement Masons Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable masonry tools.
- Comprehend and utilize formulas used in the calculations of all phases of masonry work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with cement masonry installations.

GENERAL EDUCATION REQUIREMENTS (30-32 Credits):

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	6	_____	CMA 111B Cement Mason Apprentice I	4	_____
ENGLISH: ENG 101, 102, 107	3	_____	CMA 112B Cement Mason Apprentice IB	3	_____
HUMAN RELATIONS: MGT 100B, PSY 101, SOC 101	3	_____	CMA 141B Cement Mason Apprentice II	3	_____
MATHEMATICS: MATH 116	3	_____	CMA 142B Cement Mason Apprentice IIB	4	_____
SCIENCE: EGG 131, 132	8	_____	CMA 201B Cement Mason Apprentice III	3	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____	CMA 202B Cement Mason Apprentice IIIB	4	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	CMA 251B Cement Mason Apprentice IV	3	_____
			CMA 252B Cement Mason Apprentice IVB	4	_____
			PLCM 270B OSHA 30	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any CMA journeyman course offered for credit may be substituted for any of the above CMA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Cement Mason Apprentice Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CEMENT-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares the students for employment as a Journeyman Drywall Applicator with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable drywall applicator tools.
- Comprehend and utilize formulas used in the calculations of all phases of drywall applicator work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in drywall applicator work.

GENERAL EDUCATION REQUIREMENTS (25-29 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 113B Door and Door Frames	1.5	_____
CPT 129B Advanced Print Reading	2	_____
DWA 105B Basic Metal Framing	1.5	_____
DWA 109B Basic Lathing	1.5	_____
DWA 111B Drywall Application	1.5	_____
DWA 113B Drywall Application/Finish Trims	1.5	_____
DWA 115B Framing Ceilings and Soffits	1.5	_____
DWA 117B Framing Curves and Arches	1.5	_____
DWA 119B Framing Suspended Ceilings	1.5	_____
DWA 121B Advanced Metal Framing	1.5	_____
DWA 125B Drywall/Acoustical Ceilings	1.5	_____
DWA 129B Free-Form Lathing	2	_____
DWA 131B Light Gage Welding - AWS	2	_____

Plus a minimum of eight (8) credits from following:

CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
DWA 139B Light Gage Welding - AWS A	1.5	_____
DWA 141B Exterior Insulation Finish Systems - EIFS	1.5	_____
DWA 143B Door and Door Frames	1.5	_____
DWA 145B Transit Level/Laser	2	_____

Students may elect to graduate using the degree requirements in effect at the time of graduation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any DWA journeyman course offered for credit may be substituted for any of the above DWA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Drywall Applicator Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

DWA-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares the student for employment as a Journeyman Laborer with the Laborers Union. **This is a restricted entry program. The student MUST be indentured in the Laborers' Environmental and Construction Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Laborer tools.
- Comprehend and utilize formulas used in the calculations of all phases of Laborer work.
- Demonstrate the ability to troubleshoot and repair any problems that may arise in Laborer work.

GENERAL EDUCATION REQUIREMENTS (27-29 Credits):

Continued from previous column.

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____	APP 122B Oxyfuel Gas Cutting	4	_____
ENGLISH: ENG 101, 102, 107	3	_____	APP 123B Blueprint Reading for Laborers	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____	APP 128B Asphalt	2	_____
MATHEMATICS: MATH 116	3	_____	APP 130B Hazardous Waste Handling for Laborers	4	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____	APP 132B Radiation	1	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 101, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____	APP 134B Lead Abatement	2	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	APP 136B Asbestos Abatement	2	_____
			APP 137B Pipe Laying (Gravity Flow)	2	_____
			APP 139B Pipe Laying (Pressurized)	2	_____
			APP 140B Scaffold Building	2	_____
			APP 142B Forklift Operations and Awareness	1	_____
			APP 144B Operation of Motor Driven Power Equipment	1	_____
			APP 146B Operation of Concrete Core Drilling, Saw Cutting and Compaction Equipment	1	_____
			APP 150B Mason Tending (Trowel)	2	_____
			APP 152B Plaster Tending (Mixing)	2	_____
			APP 160B Miners Preparedness and Awareness	4	_____
			APP 162B Drilling and Blasting	4	_____
			APP 164B Pneumatic Air Tool Handling	2	_____
			APP 166B Mine Rescue	1	_____
			APP 168B Microbial Remediation	1	_____
			APP 200B OSHA for Laborers	2	_____
			APP 212B Foreman Preparedness	2	_____
			APP 263B Weatherization Installation Technician	5	_____
			APP 266B Weatherization Supervisor	3	_____
			APP 269B Weatherization Energy Auditor	3	_____

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER		CR	SEMESTER
APP 102B Introduction to Apprentice Craft	4	_____			
APP 104B General Construction	4	_____			
APP 105B Concrete Flat Work	2	_____			
APP 107B Concrete Walls and Columns Work	2	_____			
APP 127B Rigging and Signaling	2	_____			
Plus nineteen (19) credits from the following:					
APP 108B Body Mechanics and Fall Protection	1	_____			
APP 120B Confined Space Awareness	2	_____			
APP 121B Line and Grade	4	_____			

Continued in next column.

Students may elect to graduate using the degree requirements in effect at the time of graduation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any APP journeyman course offered for credit may be substituted for any of the above APP apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Laborer Trades' Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. LBCONT-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Operating Engineer with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Operating Engineers’ tools.
- Comprehend and utilize formulas used in the calculations of all phases of Operating Engineers’ work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Operating Engineers’ work.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	6	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 153B Grade Checking I	5	_____
OPE 155B Plan Reading/Grade Checking II	5	_____
OPE 157B Specialized Equipment	5	_____
OPE 159B Cranes	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
Plus one (1) of the following:		
OPE 108B Hydraulics	5	_____
OPE 212B Welding	5	_____
OPE 214B Heavy Equipment Repair	5	_____
or		
OPE (any) journeyman classes offered for college credit (credit may vary).		_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. OPEEQP-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Floor Coverer with the Floor Coverers Union. **This is a restricted entry program. Students MUST be indentured in the Floor Coverers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable floor covering tools.
- Comprehend and utilize formulas used in the calculations of all phases of floor covering work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with floor covering Installations.

GENERAL EDUCATION REQUIREMENTS (33 Credits):

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
COMPUTING: IS 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105 HMS 130, MGT 100B, SOC 101	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 101, 102, 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	6	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
FLCV 100B Introduction to the Union and Construction Trade	1	_____
FLCV 111B Introduction to the Flooring Trade	3	_____
FLCV 121B Floor Installation Process	5	_____
FLCV 131B Carpet Installation Process	5	_____
FLCV 141B Special Floors and Finishes	3	_____
FLCV 200B Math for Floor Coverers	2	_____
FLCV 211B Drawings (Blueprints) for Floor Coverers	2	_____
FLCV 221B Safety Awareness	4	_____
FLCV 231B Leadership	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any FLCV journeyman course offered for credit may be substituted for any of the above FLCV apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Floor Coverers Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

FLOOR-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares the students for employment as a General Construction Inspector with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Operating Engineers’ tools.
- Comprehend and utilize formulas used in the calculations of all phases of Operating Engineers’ work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Operating Engineers’ work.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, ENV 101, GEOG 103, 104, GEO 100, PHYS 110	6	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 202B Soils Inspection and Testing	5	_____
OPE 204B Reinforced Concrete Inspector	5	_____
OPE 206B Pre-Stressed Concrete Inspector	5	_____
OPE 208B Structural Masonry Inspector	5	_____
Plus two (2) of the following:		
OPE 209B General Construction Inspector	5	_____
OPE 211B Spray Applied Fire Proofing Inspector	5	_____
OPE 213B Structural Steel and Bolting Inspector	5	_____

Students may elect to graduate using the degree requirements in effect at the time of graduation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Operating Engineers Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. OPECONSAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Glazier with the Glaziers Union. **This is a restricted entry program. Students MUST be indentured in the Glaziers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills, emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable glazing tools and equipment.
- Comprehend and utilize formulas used in the calculations of all phases of glazing work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in glazing installations.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

SPECIAL PROGRAM REQUIREMENTS (33 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____	GLZR 111B Glazier I	5	_____
ENGLISH: ENG 101, 107	3	_____	GLZR 112B Glazier II	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105 HMS 130, MGT 100B	3	_____	GLZR 121B Glazier III	4	_____
MATHEMATICS: MATH 116	3	_____	GLZR 122B Glazier IV	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____	GLZR 131B Glazier V	5	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____	GLZR 132B Glazier VI	5	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	GLZR 141B Glazier VII	5	_____
			GLZR 142B Glazier VIII	3	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any GLZR journeyman course offered for credit may be substituted for any of the above GLZR apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Glaziers Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

GLAZ-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman with the Heat and Frost Insulators Union. **This is a restricted entry program. Students MUST be indentured in the Heat and Frost Insulators Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable heat and frost insulator tools.
- Comprehend and utilize formulas used in the calculations of all phases of heat and frost insulator work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in heat and frost insulation installations.

GENERAL EDUCATION REQUIREMENTS (25-27 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	6	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
ASB 101B Asbestos Worker I	4	_____
ASB 102B Asbestos Worker II	3	_____
ASB 111B Asbestos Worker III	3	_____
ASB 112B Asbestos Worker IV	5	_____
ASB 120B Asbestos Worker V	4	_____
ASB 121B Asbestos Worker VI	4	_____
ASB 201B Asbestos Worker VII	6	_____
ASB 202B Asbestos Worker VIII	6	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any ASB journeyman course offered for credit may be substituted for any of the above ASB apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Heat and Frost Insulators' Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

HTFRST-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares the student for employment as a Journeymen Heavy Duty Repairman with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skill emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable heavy duty repairman tools.
- Comprehend and utilize formulas used in the calculations of all phases of heavy duty repair work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in heavy duty repair work.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105 HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOLOG 100, PHYS 110	6	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 108B Hydraulics	5	_____
OPE 124B Blueprint Reading for Welders/Machinists	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 210B Diesel and High Compression Engines	5	_____
OPE 212B Welding	5	_____
OPE 214B Heavy Equipment Repair	5	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. OPERPR-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students to take the Journeyman Electricians Exam administered by the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the I.B.E.W. Inside Wireman Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.
- Successfully pass Journeyman Electrician’s exams administered by the I.B.E.W. and the Clark County Building Department.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ELEC 150B	4	_____
MATHEMATICS: ELEC 121B	4	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104 GEOLOG 100, PHYS 110	7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (32 Credits):

	CR	SEMESTER
ELEC 111B Electrical Apprentice I	4	_____
ELEC 112B Electrical Apprentice II	4	_____
ELEC 122B Electrical Apprentice IV	4	_____
ELEC 131B Electrical Apprentice V	4	_____
ELEC 132B Electrical Apprentice VI	4	_____
ELEC 141B Electrical Apprentice VII	4	_____
ELEC 142B Electrical Apprentice VIII	4	_____
ELEC 152B Electrical Apprentice X	4	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Special consideration will be given students who complete the Trade Union Electrical Apprentice Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ELAPPR-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Machinist with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable machinists' tools.
- Comprehend and utilize formulas used in the calculations of all phases of machinists' work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in machinists' work.

GENERAL EDUCATION REQUIREMENTS (30 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: OPE 101B	5	_____
MATHEMATICS: OPE 116B	5	_____
SCIENCE: OPE 260B	5	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: HIST 101 and HIST 102 or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
OPE 105B Machine Tools I	5	_____
OPE 110B Technical Sketching	5	_____
OPE 124B Blueprint Reading for Welders/Machinists	5	_____
OPE 131B Introduction to Computer Aided Drafting	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 212B Welding	5	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. OPEMACHAAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares the students for employment as a Journeyman Millwright with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable millwright tools.
- Comprehend and utilize formulas used in the calculation of all phases of millwright work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in millwright work.

GENERAL EDUCATION REQUIREMENTS (25-29 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

Continued from previous column.

	CR	SEMESTER
MWA 109B Cutting and Burning	1.5	_____
MWA 111B Welding Fabrication A	1.5	_____
MWA 113B Optics and Machinery Alignment	1.5	_____
MWA 115B Machinery Shaft Alignment	1.5	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
MWA 121B Turbine Familiarization	1.5	_____
MWA 125B Pumps	1.5	_____
MWA 127B Turbine Maintenance	1.5	_____
MWA 129B Conveyor Systems	1.5	_____
MWA 131B Drives, Pulleys and Belts	1.5	_____
MWA 133B Compressor Theory and Maintenance	1.5	_____
MWA 135B Machinery Installation and Erection A	1.5	_____
MWA 137B Machinery Installation and Erection B	1.5	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 137B Rigging	2	_____
MWA 105B Millwright General Skills A	1.5	_____
MWA 107B Millwright General Skills B	1.5	_____

Plus a minimum of four (4) credits from following:

CPT 115B Transit Level/Laser	2	_____
CPT 129B Advanced Print Reading	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
DWA 131B Light Gage Welding - AWS	2	_____

Continued in next column.

Students may elect to graduate using the degree requirements in effect at the time of graduation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any MWA journeyman course offered for credit may be substituted for any of the above MWA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Millwright Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MWA-AAS

61
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Oil Well Driller with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable oil well drilling tools.
- Comprehend and utilize formulas used in the calculations of all phases of oil well drilling work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in oil well drilling work.

GENERAL EDUCATION REQUIREMENTS (30 Credits):

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
COMPUTING: CIT 100B, 102B, 103B, 106B, 107B, 108B, 109B	1	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: HIST 101 and HIST 102 or HIST 101 and HIST 217	6	_____

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 173B Drilling I	5	_____
OPE 175B Drilling II	5	_____
OPE 177B Drilling III	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
Plus one (1) of the following:		
OPE 157B Specialized Equipment	5	_____
OPE 212B Welding	5	_____
OPE 214B Heavy Equipment Repair	5	_____
or		
OPE (any) journeyman classes offered for College credit (credit may vary).		_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Operating Engineers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPEOIL-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This program prepares the student for employment as a Journeyman Painter with the Painters Union. **This is a restricted entry program. Students MUST be indentured in the Painters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations, components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable painting tools.
- Comprehend and utilize formulas used in the calculations of all phases of painting work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in painting installations.

GENERAL EDUCATION REQUIREMENTS (30 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
COMPUTING: IS 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
PTD 101B Painting/Decorating Apprentice I	4	_____
PTD 102B Painting/Decorating Apprentice IB	4	_____
PTD 105B OSHA/First Aid/CPR	1	_____
PTD 151B Painting/Decorating Apprentice II	4	_____
PTD 152B Painting/Decorating Apprentice IIB	4	_____
PTD 155B Respirators/Lead Abatement	1	_____
PTD 201B Painting/Decorating Apprentice III	4	_____
PTD 202B Painting/Decorating Apprentice IIIB	4	_____
PTD 205B Heavy Equipment Operation	1	_____
PTD 255B COMET	1	_____
PTD 270B OSHA 30	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PTD journeyman course offered for credit may be substituted for any of the above PTD apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Painting Trades Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PAINT-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Pile Driver with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable pile driver tools.
- Comprehend and utilize formulas used in the calculations of all phases of pile driver work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with pile driver work.

GENERAL EDUCATION REQUIREMENTS (25-27 Credits):

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, ENV 101, GEOG 103,104, GEOL 100, PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 105B Basic Wall Framing	1.5	_____
CPT 107B Print Reading	2	_____
CPT 115B Transit Level/Laser	2	_____
CPT 129B Advanced Print Reading	2	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
MWA 111B Welding Fabrications A	1.5	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
PDA 105B Piles and Hammers A	1.5	_____
PDA 107B Piles and Hammers B	1.5	_____
PDA 109B Pile Caps and Columns A	1.5	_____
PDA 111B Pile Caps and Columns B	1.5	_____
PDA 113B Falsework A	1.5	_____
PDA 115B Falsework B	1.5	_____
PDA 117B Abutments A	1.5	_____
PDA 119B Abutments B	1.5	_____
PDA 121B Bridge Deck Forms A	1.5	_____
PDA 123B Bridge Deck Forms B	1.5	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PDA journeyman course offered for credit may be substituted for any of the above PDA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Pile Driver Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PDA-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students to take the Journeyman Piping Trades exam administered by the United Association. **This is a restricted entry program. Students MUST be indentured in the United Association Piping Trades Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable pipe trades tools.
- Comprehend and utilize formulas used in the calculations of all phases of the piping trades.
- Install all necessary equipment to complete any piping system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in piping systems.
- Successfully pass Journeyman Pipe Trade exams administered by the United Association and the Clark County Building Department.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: PPF 101B	4	_____
MATHEMATICS: PPF 102B	4	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOG 100, PHYS 110	7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (32 Credits):

	CR	SEMESTER
PPF 151B Second Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 152B Second Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 201B Third Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 202B Third Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 251B Fourth Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 252B Fourth Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 291B Fifth Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 292B Fifth Year Plumbers and Pipefitters Apprentice II	4	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PPF journeyman course offered for credit may be substituted for any of the above PPF apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Piping Trades Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PPF-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Plasterer with the Plasterers Union. **This is a restricted entry program. Students MUST be indentured in the Plasterers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable plasterer tools.
- Comprehend and utilize formulas used in the calculations of all phases of plaster work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with plastering installations.

GENERAL EDUCATION REQUIREMENTS (30-32 Credits):

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	6	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: MGT 100B, PSY 101, SOC 101	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131, 132	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
PLA 111B Plasterer Apprentice I	4	_____
PLA 112B Plasterer Apprentice IB	3	_____
PLA 141B Plasterer Apprentice II	3	_____
PLA 142B Plasterer Apprentice IIB	4	_____
PLA 201B Plasterer Apprentice III	3	_____
PLA 202B Plasterer Apprentice IIIB	4	_____
PLA 251B Plasterer Apprentice IV	3	_____
PLA 252B Plasterer Apprentice IVB	4	_____
PLCM 270B OSHA 30	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PLA, journeyman course offered for credit may be substituted for any of the above PLA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Plasterer Apprentice Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PLA-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Reinforcing Ironworker with the Ironworkers Union. **This is a restricted entry program. Students MUST be enrolled in the Reinforcing Ironworkers Apprenticeship Program before enrolling in classes.** In addition to special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Reinforcing Ironworker tools.
- Comprehend and utilize formulas used in the calculations of all phases of Reinforcing Ironworker work.
- Comprehend the ability to troubleshoot and repair any problems that arise in reinforcing ironwork installations.

GENERAL EDUCATION REQUIREMENTS (27-29 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131, 132	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 116B Reinforcing Iron I	3	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 154B Reinforcing Iron II	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 202B Welding III for Ironworkers	3	_____
IRW 204B Detailing I for Reinforcing Iron	3	_____
IRW 206B Detailing II for Reinforcing Iron	3	_____
IRW 208B Foreman Training for Ironworkers	3	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Trade Union Ironworker Apprentice Associate of Applied Science degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

IRWIRN-AAS

62
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This program prepares the student for employment as a Journeyman Roofer and Water Proofer with the Roofers Union. **This is a restricted entry program. Students MUST be indentured in the Roofer and Water Proofer Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable roofing tools.
- Comprehend and utilize formulas used in the calculations of all phases of roofing work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in roofing installations.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

SPECIAL PROGRAM REQUIREMENTS (32 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105 HMS 130, MGT 100B, SOC 101	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: HIST 101 and HIST 102 or HIST 101 and HIST 217	6	_____

	CR	SEMESTER
RFR 101B Roofers Apprentice I	4	_____
RFR 102B Roofers Apprentice I s	4	_____
RFR 151B Roofers Apprentice II	4	_____
RFR 152B Roofers Apprentice II s	4	_____
RFR 201B Roofers Apprentice III	4	_____
RFR 202B Roofers Apprentice III s	4	_____
RFR 211B Safety	4	_____
RFR 212B CPR, First Aid, and OSHA 10	4	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any RFR journeyman course offered for credit may be substituted for any of the above RFR apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Roofers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ROOF-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Scaffold Erector with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable scaffold erector tools.
- Comprehend and utilize formulas used in the calculations of all phases of scaffold erector work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with scaffold erector installations.

GENERAL EDUCATION REQUIREMENTS (25-29 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, ENV 101, GEOG 103,104, GEOL 100, PHYS 110	6-7	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 129B Advanced Print Reading	2	_____
SEA 105B Basic Frame Scaffold	1.5	_____
SEA 109B Basic System Scaffold	1.5	_____
SEA 111B Basic Suspended Scaffold	1.5	_____
SEA 113B Basic Tube and Clamp Scaffold	1.5	_____
SEA 115B Intermediate Frame Scaffold	1.5	_____
SEA 117B Intermediate System Scaffold	1.5	_____
SEA 119B Advanced Frame Scaffold	1.5	_____
SEA 121B Advanced System Scaffold	1.5	_____
SEA 123B Advanced Suspended Scaffold	1.5	_____
SEA 125B Scaffold Re-Shoring	2	_____
SEA 127B Scaffold in Confined Spaces	1.5	_____
SEA 129B Specialty Scaffold Applications	2	_____

Plus a minimum of eight (8) credits from the following:

CPT 105B Basic Wall Framing	1.5	_____
CPT 111B Wall Forming	1.5	_____
CPT 115B Transit Level/Laser	2	_____
CPT 121B Stair and Ramp Forming	1.5	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any SEA journeyman course offered for credit may be substituted for any of the above SEA apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Scaffold Erector Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

SEA-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares the student for employment as a Journeyman Sheet Metal Worker with the Sheet Metal Union. **This is a restricted entry program. Students MUST be indentured in the Sheet Metal Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable sheet metal tools.
- Comprehend and utilize formulas used in the calculations of all phases of sheet metal installations.
- Demonstrate the ability to troubleshoot and repair any problems that arise in sheet metal installations.

GENERAL EDUCATION REQUIREMENTS (26 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: SMTL 260B	2	_____
MATHEMATICS: SMTL 124B	4	_____
SCIENCE: SMTL 115B and one set of the following: AST 101 and 105, BIOL 101, CHEM 105 and 106, GEOG 103 and 104, GEOL 100, PHYS 110	7-8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (34 Credits):

	CR	SEMESTER
First Year:		
SMTL 111B First Aid/CPR I	0.5	_____
SMTL 113B Sheet Metal Drafting	4	_____
SMTL 114B Layout/Fabrication I	4	_____
SMTL 121B OSHA 10	1	_____
Second Year:		
SMTL 122B Sheet Metal Plans and Specifications	4	_____
SMTL 123B Layout/Fabrication II	4	_____

Continued in next column.

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

Continued from previous column.

	CR	SEMESTER
Third Year:		
SMTL 230B First Aid/CPR II	0.5	_____
Choose two (2) of the following courses in one discipline:		
SMTL 234B Architectural Sheet Metal I	4	_____
SMTL 236B Architectural Sheet Metal II	4	_____
SMTL 240B CAD/Detailing I	4	_____
SMTL 241B CAD/Detailing II	4	_____
SMTL 242B TAB I	4	_____
SMTL 243B TAB II	4	_____
SMTL 244B Advanced Welding/Industrial I	4	_____
SMTL 245B Advanced Welding/Industrial II	4	_____
SMTL 246B HVAC-R Equipment I	4	_____
SMTL 247B HVAC-R Equipment II	4	_____
SMTL 248B Food Service Equipment Fabrication/Installation I	4	_____
SMTL 249B Food Service Equipment Fabrication/Installation II	4	_____

Fourth Year:

Choose level III and level IV of the above chosen classes:

SMTL 261B TAB III	4	_____
SMTL 262B TAB IV	4	_____
SMTL 263B Advanced Welding/Industrial III	4	_____
SMTL 264B Advanced Welding/Industrial IV	4	_____
SMTL 265B HVAC-R Equipment III	4	_____
SMTL 266B HVAC-R Equipment IV	4	_____
SMTL 267B Food Service Equipment Fabrication/Installation III	4	_____
SMTL 268B Food Service Equipment Fabrication/Installation IV	4	_____
SMTL 269B CAD/Detailing III	4	_____
SMTL 270B CAD/Detailing IV	4	_____
SMTL 284B Architectural Sheet Metal III	4	_____
SMTL 285B Architectural Sheet Metal IV	4	_____

Any SMTL journeyman course offered for credit may be substituted for any of the above SMTL apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Sheet Metal Trades Associate of Applied Science Degree if they are affected by the retroactive six year rule.

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

60
Total Credits

SHEMET-AAS

This degree prepares students for employment as a Journeyman Stationary and Maintenance Engineer. **This is a restricted entry program. Students MUST be indentured in the Stationary Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations skills are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Stationary and Maintenance Engineers tools.
- Comprehend and utilize formulas used in the calculations of all phases of Stationary and Maintenance Engineering work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Stationary and Maintenance Engineering systems.

GENERAL EDUCATION REQUIREMENTS (28 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
COMPUTING: IS 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: OPME 123B	3	_____
MATHEMATICS: OPME 120B	3	_____
SCIENCE: OPME 107B, 109B	6	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (36 Credits):

	CR	SEMESTER
OPME 102B Fundamentals of Electricity	3	_____
OPME 103B Introduction to the National Electric Code	3	_____
OPME 105B Domestic Refrigeration	2	_____
OPME 106B Mechanical Power Transmission (Instrumentation)	3	_____
OPME 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	3	_____
OPME 110B Electrical, Heating and Cooling	4	_____
OPME 114B Automated Manufacturing Control	3	_____
OPME 122B Introduction to Oxy-Acetylene Welding	3	_____
OPME 133B Air Conditioning Theory	6	_____
OPME 144B Industrial Electricity	3	_____
OPME 212 Welding I	3	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPME journeyman course offered for credit may be substituted for any of the above OPME apprenticeship courses. Please contact the program coordinator more for details.

Special consideration will be given students who complete the Operating Maintenance Engineers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPME-AAS

64
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This program prepares the student for employment as a Structural Steel Ironworker Journeyman with the Ironworkers Union. **This is a restricted entry program. Students MUST be indentured in the Structural Steel Ironworkers Apprenticeship Program before enrolling in classes.** In addition to special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Structural Steel Ironworker tools.
- Comprehend and utilize all formulas used in the calculations of all phases of Structural Steel Ironworker work.
- Comprehend the ability to troubleshoot and repair any problems that arise in Structural Steel installations.

GENERAL EDUCATION REQUIREMENTS (30-32 Credits):

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
COMPUTING: IS 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: EGG 131, 132	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 111B Introduction to Major Work Areas	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 134B Lead Abatement/OSHA	2	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 153B Structural Steel I	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 203B Structural Steel II	3	_____
IRW 207B Structural Steel III/Precast	3	_____
IRW 208B Foreman Training for Ironworkers	3	_____
IRW 211B Architectural Ornamental Iron	2	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Trade Union Ironworker Apprentice Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

IRWSTL-AAS

65
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Surveyor with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science and human relations are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable surveyors' tools.
- Comprehend and utilize formulas used in the calculations of all phases of surveyor's work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in surveyor's work.

GENERAL EDUCATION REQUIREMENTS (30 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____
ENGLISH: ENG 101, 102, 107	3	_____
HUMAN RELATIONS: OPE 283B	5	_____
MATHEMATICS: OPE 116B	5	_____
SCIENCE: OPE 201B	5	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: HIST 101 and HIST 102 or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 110B Technical Sketching	5	_____
OPE 111B Land Surveying	5	_____
OPE 117B Applied Math for Surveyors	5	_____
OPE 121B Boundary Surveys	5	_____
OPE 122B Construction Surveys	5	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprenticeship courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Operating Maintenance Engineers Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPESUV-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

This degree prepares students for employment as a Journeyman Convention Teamster with the Teamsters Union. **This is a restricted entry program. Students MUST be indentured in the Convention Teamster Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable convention teamster tools.
- Comprehend and utilize formulas used in the calculations of all phases of convention teamster work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in convention teamster work.

GENERAL EDUCATION REQUIREMENTS (34 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215	6	_____
ENGLISH: ENG 101, 102, 107	6	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105 HMS 130, MGT 100B, SOC 101	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104 GEOL 100, PHYS 110	7	_____
SOCIAL SCIENCE/HUMANITIES: ART 160, ECON 101, PHIL 102, PSY 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: HIST 101 and HIST 102 or HIST 101 and HIST 217	6	_____

SPECIAL PROGRAM REQUIREMENTS (26 Credits):

	CR	SEMESTER
TMST 100B OSHA General Industry Class	1	_____
TMST 120B Introduction to the Convention Industry	1	_____
TMST 130B Beginning Decorating	2	_____
TMST 140B Beginning Systems	1	_____
TMST 150B Beginning Design and Repair	2	_____
TMST 160B Beginning Installation and Dismantle	2	_____
TMST 170B Forklift Theory	3	_____
TMST 200B Advanced Forklift	3	_____
TMST 220B Advanced Installation and Dismantle	3	_____
TMST 230B Lead Foreman Training	2	_____
TMST 240B First Aid/CPR	1	_____
TMST 250B Condor Operating	3	_____
TMST 260B Rigging	1	_____
TMST 270B Scissor Lift	1	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any TMST journeyman course offered for credit may be substituted for any of the above TMST apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the TMST Associate of Applied Science Degree if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. CONVEN-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



This degree prepares students for employment as a Journeyman Tile Setter with the Tile Setters Union. **This is a restricted entry program. Students MUST be indentured in the Tile Setters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable tile setting tools.
- Comprehend and utilize formulas used in the calculations of all phases of tile setting.
- Demonstrate the ability to troubleshoot and repair any problems that arise in tile setting installations.

GENERAL EDUCATION REQUIREMENTS (33-35 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	6	_____
ENGLISH: ENG 101, 102, 107	6	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, HIST 105, HMS 130, MGT 100B	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: AST 101, BIOL 101, CHEM 103, EGG 131, 132, ENV 101, GEOG 103, 104, GEOL 100, PHYS 110	8	_____
SOCIAL SCIENCE/HUMANITIES: ANTH 101, ART 160, ECON 102, MUS 121, 125, PHIL 102, PSY 101, SOC 101	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
TLS 101B Tile Setter Apprentice I	4	_____
TLS 102B Tile Setter Apprentice IB	4	_____
TLS 105B OSHA/First Aid/CPR for Tile Setters	3	_____
TLS 151B Tile Setter Apprentice II	4	_____
TLS 152B Tile Setter Apprentice IIB	4	_____
TLS 201B Tile Setter Apprentice III	4	_____
TLS 202B Tile Setter Apprentice IIIB	4	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any TLS journeyman course offered for credit may be substituted for any of the above TLS apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Tile Setters Trade Associate of Applied Science if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

TILE-AAS

60
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Bricklayer with the Bricklayers Union. **This is a restricted entry program. Students MUST be indentured in the Bricklayers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at (702) 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable brick laying tools.
- Comprehend and utilize formulas used in the calculations of all phases of brick laying.
- Comprehend the ability to troubleshoot and repair any problems that arise with brick laying installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
BRL 101B Bricklayers' Apprentice I	4	_____
BRL 102B Bricklayers' Apprentice IB	4	_____
BRL 105B OSHA/First Aid/CPR for Bricklayers	3	_____
BRL 151B Bricklayers' Apprentice II	4	_____
BRL 152B Bricklayers' Apprentice IIB	4	_____
BRL 201B Bricklayers' Apprentice III	4	_____
BRL 202B Bricklayers' Apprentice IIIB	4	_____

Computation included in BRL 101B, 102B, 151B, 152B, 201B, 202B

Human Relations included in BRL 101B, 102B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any BRL journeyman course offered for credit may be substituted for any of the above BRL apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Bricklayers' Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

BRCKTD-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Carpenter with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable carpentry tools.
- Comprehend and utilize formulas used in the calculations of all phases of carpentry work.
- Comprehend the ability to troubleshoot and repair any problems that arise with carpentry installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 105B Basic Wall Framing	1.5	_____
CPT 107B Print Reading	2	_____
CPT 109B Basic Roof Framing	1.5	_____
CPT 111B Wall Forming	1.5	_____
CPT 113B Doors and Door Frames	1.5	_____
CPT 115B Transit Level/Laser	2	_____
CPT 117B Foundations and Flatwork	1.5	_____
CPT 119B Bridge Construction	1.5	_____
CPT 121B Stair and Ramp Forming	1.5	_____
CPT 123B Beam and Deck Forming	1.5	_____
CPT 125B Cabinet Millwork and Assembly	1.5	_____
CPT 127B Commercial Floor Framing	1.5	_____
CPT 129B Advanced Print Reading	2	_____
CPT 131B Cabinet Installation	2	_____

Computation included in CPT 105B, 109B, 117B, 121B

Human Relations included in CPT 102B, 104B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any CPT journeyman course offered for credit may be substituted for any of the above CPT apprentice courses. Please contact the program coordinator for more details.

Special consideration will be given students who complete the Carpentry Trades Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CART-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Cement Mason with the Cement Masons Union. **This is a restricted entry program. Students MUST be indentured in the Cement Masons Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable masonry tools.
- Comprehend and utilize formulas used in the calculations of all phases of masonry work.
- Comprehend the ability to troubleshoot and repair any problems that arise with cement masonry installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
CMA 111B Cement Mason Apprentice I	4	_____
CMA 112B Cement Mason Apprentice IB	3	_____
CMA 141B Cement Mason Apprentice II	3	_____
CMA 142B Cement Mason Apprentice IIB	4	_____
CMA 201B Cement Mason Apprentice III	3	_____
CMA 202B Cement Mason Apprentice IIIB	4	_____
CMA 251B Cement Mason Apprentice IV	3	_____
CMA 252B Cement Mason Apprentice IVB	4	_____

Computation included in CMA 141B, 142B

Human Relations included in CMA 111B, 112B, 142B, 201B, 202B, 251B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any CMA journeyman course offered for credit may be substituted for any of the above CMA apprentice courses. Please contact the program coordinator for details

Special consideration will be given students who complete the Cement Mason Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CEMENT-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

APPRENTICESHIP
(COA)



CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Drywall Applicator with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable drywall applicator tools.
- Comprehend and utilize formulas used in the calculations of all phases of drywall applicator work.
- Comprehend the ability to troubleshoot and repair any problems that arise with drywall applicator installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 113B Doors and Door Frames	1.5	_____
CPT 129B Advanced Print Reading	2	_____
DWA 105B Basic Metal Framing	1.5	_____
DWA 109B Basic Lathing	1.5	_____
DWA 111B Drywall Application	1.5	_____
DWA 113B Drywall Installation/Finish Trims	1.5	_____
DWA 115B Framing Ceilings and Soffits	1.5	_____
DWA 117B Framing Curves and Arches	1.5	_____
DWA 119B Framing Suspended Ceilings	1.5	_____
DWA 121B Advanced Metal Framing	1.5	_____
DWA 125B Drywall/Acoustical Ceilings	1.5	_____
DWA 129B Free-Form Lathing	2	_____
DWA 131B Light Gage Welding - AWS	2	_____

Computation included in DWA 117B
Human Relations included in CPT 102B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any DWA journeyman course offered for credit may be substituted for any of the above DWA apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Drywall Applicator Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

DWA-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

APPRENTICESHIP
(COA)

CERTIFICATE OF ACHIEVEMENT

This program prepares the student for employment as a Journeyman Laborer with the Laborers Union. **This is a restricted entry program. The student MUST be indentured in the Laborers' Environmental and Construction Apprenticeship Program before enrolling in class-**es. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate an understanding of all OSHA regulations and concrete codes applicable to laborers.
- Demonstrate an understanding of sealing the building envelope in determining what weatherization solutions are applicable.
- Demonstrate an understanding of how to recognize hazardous building materials containing asbestos and/or lead.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

Continued from previous column.

APP 136B	Asbestos Abatement	2	_____
APP 139B	Pipe Laying (Pressurized)	2	_____
APP 140B	Scaffold Building	2	_____
APP 142B	Forklift Operations and Awareness	1	_____
APP 144B	Operation of Motor Driven Power Equipment	1	_____
APP 146B	Operation of Concrete Core Drilling, Saw Cutting and Compaction Equipment	1	_____
APP 150B	Mason Tending (Trowel)	2	_____
APP 152B	Plaster Tending (Mixing)	2	_____
APP 160B	Miners Preparedness and Awareness	4	_____
APP 162B	Drilling and Blasting	4	_____
APP 164B	Pneumatic Air Tool Handling	2	_____
APP 166B	Mine Rescue	1	_____
APP 168B	Microbial Remediation	1	_____
APP 200B	OSHA for Laborers	2	_____
APP 212B	Foreman Preparedness	2	_____
APP 263B	Weatherization Installation Technician	5	_____
APP 266B	Weatherization Supervisor	3	_____
APP 269B	Weatherization Energy Auditor	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
APP 102B Introduction to Apprentice Craft	4	_____
APP 104B General Construction	4	_____
APP 105B Concrete Flat Work	2	_____
APP 107B Concrete Walls and Columns Work	2	_____
APP 127B Rigging and Signaling	2	_____
Plus thirteen (13) credits from the following:		
APP 108B Body Mechanics and Fall Protection	1	_____
APP 120B Confined Space Awareness	2	_____
APP 121B Line and Grade	4	_____
APP 122B Oxyfuel Gas Cutting	4	_____
APP 123B Blueprint Reading for Laborers	3	_____
APP 128B Asphalt	2	_____
APP 130B Hazardous Waste Handling for Laborers	4	_____
APP 132B Radiation	1	_____
APP 134B Lead Abatement	2	_____

Computation included in APP 104B, 105B, 107B, 120B, 121B
Human Relations included in APP 102B, 212B

Continued in next column.

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any APP journeyman course offered for credit may be substituted for any of the above APP apprentice course. Contact the program coordinator for details.

Special consideration will be given students who complete the Laborer Trades' Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

LBCONT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Operating Engineer with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable Operating Engineers’ tools.
- Comprehend and utilize formulas used in the calculations of all phases of Operating Engineers’ work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in Operating Engineers’ work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 153B Grade Checking I	5	_____
OPE 155B Plan Reading/Grade Checking II	5	_____
OPE 157B Specialized Equipment	5	_____
OPE 159B Cranes	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 153B, 155B

Human Relations included in OPE 101B

APPRENTICESHIP
(COA)

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Equipment Operators Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPEEQP-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Floor Coverer with the Floor Coverers Union. **This is a restricted entry program. Students MUST be indentured in the Floor Coverers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable floor coverer tools.
- Comprehend and utilize formulas used in the calculations of all phases of floor covering work.
- Comprehend the ability to troubleshoot and repair any problems that arise with floor covering Installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
FLCV 100B Introduction to the Union and Construction Trade	1	_____
FLCV 111B Introduction to the Flooring Trade	3	_____
FLCV 121B Floor Installation Process	5	_____
FLCV 131B Carpet Installation Process	5	_____
FLCV 141B Special Floors and Finishes	3	_____
FLCV 200B Math for Floor Coverers	2	_____
FLCV 211B Drawings (Blueprints) for Floor Coverers	2	_____
FLCV 221B Safety Awareness	4	_____
FLCV 231B Leadership	2	_____

Computation included in FLCV 200B, 221B
Human Relations included in FLCV 231B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any FLCV journeyman course offered for credit may be substituted for any of the above FLCV apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Floor Coverers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

FLOOR-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a General Construction Inspector with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable building codes and inspection requirements.
- Comprehend and utilize formulas used in the calculations of all phases of construction inspection.
- Demonstrate the ability to troubleshoot and report any problems that arise in during a structural inspection.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 202B Soils Inspection and Testing	5	_____
OPE 204B Reinforced Concrete Inspector	5	_____
OPE 206B Pre-Stressed Concrete Inspector	5	_____
OPE 208B Structural Masonry Inspector	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 202B, 204B, 206B, 208B

Human Relations included in OPE 202B, 204B, 206B, 208B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. OPECONS-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Glazier with the Glaziers Union. **This is a restricted entry program. Students MUST be indentured in the Glaziers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable glazier tools and equipment.
- Comprehend and utilize formulas used in the calculations of all phases of glazier work.
- Comprehend the ability to troubleshoot and repair any problems that arise in glazing installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
GLZR 111B Glazier I	5	_____
GLZR 112B Glazier II	3	_____
GLZR 121B Glazier III	4	_____
GLZR 122B Glazier IV	3	_____
GLZR 131B Glazier V	5	_____
GLZR 132B Glazier VI	5	_____
GLZR 270B OSHA 30	2	_____

Computation included in GLZR 111B, 112B, 131B

Human Relations included in GLZR 132B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any GLZR journeyman course offered for credit may be substituted for any of the above GLZR apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Glaziers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

GLAZ-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

APPRENTICESHIP
(COA)

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Insulator with the Heat and Frost Insulators Union. **This is a restricted entry program. Students MUST be indentured in the Heat and Frost Insulators Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable heat and frost insulator tools.
- Comprehend and utilize formulas used in the calculations of all phases of heat and frost insulator work.
- Comprehend the ability to troubleshoot and repair any problems that arise in heat and frost insulation installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
ASB 101B Asbestos Worker I	4	_____
ASB 102B Asbestos Worker II	3	_____
ASB 111B Asbestos Worker III	3	_____
ASB 112B Asbestos Worker IV	5	_____
ASB 120B Asbestos Worker V	4	_____
ASB 121B Asbestos Worker VI	4	_____
ASB 201B Asbestos Worker VII	6	_____

Computation included in ASB 101B, 111B

Human Relations included in ASB 201B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any ASB journeyman course offered for credit may be substituted for any of the above ASB apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Heat and Frost Insulators' Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

HTFRST-CT

32
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares the student for employment as a Journeymen Heavy Duty Repairman with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable heavy duty repairman tools.
- Comprehend and utilize formulas used in the calculations of all phases of heavy duty repair work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in heavy duty repair work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 108B Hydraulics	5	_____
OPE 124B Blueprint Reading for Welders/Machinists	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 210B Diesel and High Compression Engines	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 108B, 124B, 210B

Human Relations included in OPE 101B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Operating Engineers Heavy Duty Repairman Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPERPR-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

APPRENTICESHIP
(COA)



CERTIFICATE OF ACHIEVEMENT

This program prepares students to take the Journeyman Electrician Exam administered by the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Inside Wireman Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.
- Successfully pass Journeyman Electrician’s exams administered by the I.B.E.W. and the Clark County Building Department.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ELEC 111B Electrical Apprentice I	4	_____
ELEC 112B Electrical Apprentice II	4	_____
ELEC 121B Electrical Apprentice III	4	_____
ELEC 122B Electrical Apprentice IV	4	_____
ELEC 127B Mobile Equipment Safety	1	_____
ELEC 131B Electrical Apprentice V	4	_____
ELEC 132B Electrical Apprentice VI	4	_____
ELEC 137B OSHA 30	2	_____

Computation included in ELEC 111B, 112B, 121B

Human Relations included in ELEC 112B, 121B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Special consideration will be given students who complete the Trade Union Inside Wireman Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ELAPPR-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as an Installer/Technician with the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Installer/Technician Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Comprehend the ability to troubleshoot and repair any problems that arise in electrical systems.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ELEC 127B Mobile Equipment Safety	1	_____
ELEC 137B OSHA 30	2	_____
ELEC 161B Installer/Technician Apprentice I	4	_____
ELEC 162B Installer/Technician Apprentice II	4	_____
ELEC 163B Installer/Technician Apprentice III	4	_____
ELEC 164B Installer/Technician Apprentice IV	4	_____
ELEC 165B Installer/Technician Apprentice V	4	_____
ELEC 166B Installer/Technician Apprentice VI	4	_____

Computation included in ELEC 161B, 162B
Human Relations included in ELEC 161B, 162B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Special consideration will be given students who complete the Trade Union Installer/Technician Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ELEAPPR-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Machinist with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable machinists' tools.
- Comprehend and utilize formulas used in the calculations of all phases of machinists' work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in machinists' work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 105B Machine Tools I	5	_____
OPE 116B Machinists/Surveyors Math	5	_____
OPE 124B Blueprint Reading for Welders/Machinists	5	_____
OPE 131B Introduction to Computer Aided Drafting	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 116B

Human Relations included in OPE 101B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. OPEMACH-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Millwright with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** Along with special program courses, academic skills emphasizing related math, science, and human relations components are stressed to prepare students to meet the challenges common in the work place. For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable millwright tools.
- Comprehend and utilize formulas used in the calculations of all phases of millwright work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with millwright work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27.5 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 137B Rigging	2	_____
MWA 105B Millwright General Skills A	1.5	_____
MWA 107B Millwright General Skills B	1.5	_____
MWA 109B Cutting and Burning	1.5	_____
MWA 111B Welding Fabrication A	1.5	_____
MWA 113B Optics and Machinery Alignment	1.5	_____
MWA 115B Machinery Shaft Alignment	1.5	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
MWA 121B Turbine Familiarization	1.5	_____
MWA 125B Pumps	1.5	_____
MWA 127B Turbine Maintenance	1.5	_____
MWA 129B Conveyor Systems	1.5	_____
MWA 131B Drives, Pulleys and Belts	1.5	_____

Computation included in MWA 105B, 107B

Human Relations included in CPT 102B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any MWA journeyman course offered for credit may be substituted for any of the above MWA apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Millwright Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

MWA-CT

30.5
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This degree prepares students for employment as a Journeyman Oil Well Driller with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable oil well drilling tools.
- Comprehend and utilize formulas used in the calculations of all phases of oil well drilling work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in oil well drilling work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 173B Drilling I	5	_____
OPE 175B Drilling II	5	_____
OPE 177B Drilling III	5	_____
OPE 201B Hazardous Materials Handling Awareness	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 173B, 175B, 177B

Human Relations included in OPE 101B

APPRENTICESHIP
(COA)

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPEOIL-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares the student for employment as a Journeyman Painter with the Painters Union. **This is a restricted entry program. Students MUST be indentured in the Painters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable painters tools.
- Comprehend and utilize formulas used in the calculations of all phases of painting work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in painting installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
PTD 101B Painting/Decorating Apprentice I	4	_____
PTD 102B Painting/Decorating Apprentice IB	4	_____
PTD 105B OSHA/First Aid/CPR	1	_____
PTD 151B Painting/Decorating Apprentice II	4	_____
PTD 152B Painting/Decorating Apprentice IIB	4	_____
PTD 155B Respirators/Lead Abatement	1	_____
PTD 201B Painting/Decorating Apprentice III	4	_____
PTD 202B Painting/Decorating Apprentice IIIB	4	_____
PTD 205B Heavy Equipment Operation	1	_____

Computation included in PTD 101B, 102B, 151B, 152B, 155B, 201B, 202B

Human Relations included in PTD 101B, 102B, 151B, 152B, 201B, 202B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PTD journeyman course offered for credit may be substituted for any of the above PTD apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Painting Trades Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PAINT-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Pile Driver with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable pile driver tools.
- Comprehend and utilize formulas used in the calculations of all phases of pile driver work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with pile driver work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 137B Rigging	2	_____
CPT 145B Scaffold Erector Qualification	2	_____
MWA 117B Structural Welding - AWS A	1.5	_____
MWA 119B Structural Welding - AWS B	1.5	_____
PDA 105B Piles and Hammers A	1.5	_____
PDA 107B Piles and Hammers B	1.5	_____
PDA 109B Pile Caps and Columns A	1.5	_____
PDA 111B Pile Caps and Columns B	1.5	_____
PDA 113B Falsework A	1.5	_____
PDA 115B Falsework B	1.5	_____
PDA 117B Abutments A	1.5	_____
PDA 119B Abutments B	1.5	_____
PDA 121B Bridge Deck Forms A	1.5	_____
PDA 123B Bridge Deck Forms B	1.5	_____

Computation included in CPT 137B

Human Relations included in CPT 102B, 104B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PDA journeyman course offered for credit may be substituted for any of the above PDA apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Pile Driver Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PDA-CT

31
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students to take the Journeyman Piping Trades exam administered by the United Association. **This is a restricted entry program. Students MUST be indentured in the United Association Piping Trades Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable piping tools.
- Comprehend and utilize formulas used in the calculations of all phases of the piping trades.
- Install all necessary equipment to complete any piping system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in piping systems.
- Successfully pass Journeyman Pipe Trade exams administered by the United Association and the Clark County Building Department.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
PPF 101B First Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 102B First Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 116B Technical Math for Piping Trades	2	_____
PPF 151B Second Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 152B Second Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 170B OSHA 10	0.5	_____
PPF 201B Third Year Plumbers and Pipefitters Apprentice I	4	_____
PPF 202B Third Year Plumbers and Pipefitters Apprentice II	4	_____
PPF 240B First Aid/CPR	0.5	_____

Computation included in PPF 101B, 102B, 116B

Human Relations included in PPF 101B, 102B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PPF journeyman course offered for credit may be substituted for any of the above PPF apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Piping Trades Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PPF-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Plasterer with the Plasterers Union. **This is a restricted entry program. Students MUST be indentured in the Plasterers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable plasterer tools.
- Comprehend and utilize formulas used in the calculations of all phases of plastering work.
- Comprehend the ability to troubleshoot and repair any problems that arise in tile plastering installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
PLA 111B Plasterer Apprentice I	4	_____
PLA 112B Plasterer IB	3	_____
PLA 141B Plasterer II	3	_____
PLA 142B Plasterer IIB	4	_____
PLA 201B Plasterer Apprentice III	3	_____
PLA 202B Plasterer Apprentice IIIB	4	_____
PLA 251B Plasterer Apprentice IV	3	_____
PLA 252B Plasterer Apprentice IVB	4	_____

Computation included in PLA 141B, 142B

Human Relations included in PLA 111B, 112B, 142B, 201B, 202B, 251B

APPRENTICESHIP
(COA)

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any PLA journeyman course offered for credit may be substituted for any of the above PLA apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Tile Setters Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

PLA-CT **31**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Reinforcing Ironworker with the Ironworkers Union. **This is a restricted entry program. Students MUST be indentured in the Reinforcing Ironworkers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable reinforcing iron tools.
- Comprehend and utilize formulas used in the calculations of all phases of reinforcing iron work.
- Comprehend the ability to troubleshoot and repair any problems that arise in reinforcing iron work installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (35 Credits):

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 116B Reinforcing Iron I	3	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 154B Reinforcing Iron II	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 202B Welding III for Ironworkers	3	_____
IRW 204B Detailing I for Reinforcing Iron	3	_____
IRW 206B Detailing II for Reinforcing Iron	3	_____
IRW 208B Foreman Training for Ironworkers	3	_____

Computation included in IRW 114B, 204B

Human Relations included in IRW 208B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Reinforcing Ironworker Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

IRWIRN-CT

38
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Residential Electrician with the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Residential Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ELEC 115B Residential Apprentice I	4	_____
ELEC 116B Residential Apprentice II	4	_____
ELEC 117B Residential Apprentice III	4	_____
ELEC 118B Residential Apprentice IV	4	_____
ELEC 119B Residential Apprentice V	4	_____
ELEC 120B Residential Apprentice VI	4	_____
ELEC 127B Mobile Equipment Safety	1	_____
ELEC 137B OSHA 30	2	_____

Computation included in ELEC 115B, 116B

Human Relations included in ELEC 115B, 120B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Special consideration will be given students who complete the Trade Union Residential Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ELRES-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares the student for employment as a Journeyman Roofer and Water Proofer with the Roofers Union. **This is a restricted entry program. Students MUST be indentured in the Roofer and Water Proofer Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable roofing tools.
- Comprehend and utilize formulas used in the calculations of all phases of roofing work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in roofing installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (28 Credits):

	CR	SEMESTER
RFR 101B Roofers Apprentice I	4	_____
RFR 102B Roofers Apprentice I s	4	_____
RFR 151B Roofers Apprentice II	4	_____
RFR 152B Roofers Apprentice II s	4	_____
RFR 201B Roofers Apprentice III	4	_____
RFR 211B Safety	4	_____
RFR 212B CPR, First Aid and OSHA 10	4	_____

Computation included in RFR 102B
Human Relations included in RFR 101B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any RFR journeyman course offered for credit may be substituted for any of the above RFR apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Roofers and Waterproofers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ROOF-CT **31**
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Scaffold Erector with the Carpenters Union. **This is a restricted entry program. Students MUST be indentured in the Carpenters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable scaffold erector tools.
- Comprehend and utilize formulas used in the calculations of all phases of scaffold erector work.
- Demonstrate the ability to troubleshoot and repair any problems that arise with scaffold installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
CPT 102B Orientation	2	_____
CPT 104B Safety and Health Certifications	2	_____
CPT 107B Print Reading	2	_____
CPT 129B Advanced Print Reading	2	_____
SEA 105B Basic Frame Scaffold	1.5	_____
SEA 109B Basic System Scaffold	1.5	_____
SEA 111B Basic Suspended Scaffold	1.5	_____
SEA 113B Basic Tube and Clamp Scaffold	1.5	_____
SEA 115B Intermediate Frame Scaffold	1.5	_____
SEA 117B Intermediate System Scaffold	1.5	_____
SEA 119B Advanced Frame Scaffold	1.5	_____
SEA 121B Advanced System Scaffold	1.5	_____
SEA 123B Advanced Suspended Scaffold	1.5	_____
SEA 125B Scaffold Re-Shoring	2	_____
SEA 127B Scaffold in Confined Space	1.5	_____
SEA 129B Specialty Scaffold Applications	2	_____

Computation included in SEA 105B, 113B, 115B, 119B

Human Relations included in CPT 102B, 104B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any SEA journeyman course offered for credit may be substituted for any of the above SEA apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Scaffold Erector Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

SEA-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

APPRENTICESHIP
(COA)

CERTIFICATE OF ACHIEVEMENT

This program prepares the student for employment as a Journeyman Sheet Metal Worker with the Sheet Metal Union. **This is a restricted entry program. Students MUST be indentured in the Sheet Metal Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable sheet metal tools.
- Comprehend and utilize formulas used in the calculations of all phases of sheet metal installations.
- Demonstrate the ability to troubleshoot and repair any problems that arise in sheet metal installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (29 Credits):

	CR	SEMESTER
First Year:		
SMTL 111B First Aid/CPR I	0.5	_____
SMTL 113B Sheet Metal Drafting	4	_____
SMTL 114B Layout/Fabrication I	4	_____
SMTL 115B Sheet Metal Apprentice I	3	_____
SMTL 121B OSHA 10	1	_____
Second Year:		
SMTL 122B Sheet Metal Plans and Specifications	4	_____
SMTL 123B Layout/Fabrication II	4	_____
SMTL 124B Sheet Metal Apprentice II	4	_____
Third Year:		
SMTL 230B First Aid/CPR II	0.5	_____
Choose one of the following courses:		
SMTL 234B Architectural Sheet Metal I	4	_____
SMTL 240B CAD/Detailing I	4	_____
SMTL 242B TAB I	4	_____
SMTL 244B Advanced Welding/Industrial I	4	_____
SMTL 246B HVAC-R Equipment I	4	_____
SMTL 248B Food Service Equipment Fabrication/Installation I	4	_____

Computation included in SMTL 114B, 115B, 123B, 124B

Human Relations included in SMTL 115B, 121B, 124B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any SMTL journeyman course offered for credit may be substituted for any of the above SMTL apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Sheet Metal Trades Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

SHEMET-CT

32
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Sign Electrician with the International Brotherhood of Electrical Workers. **This is a restricted entry program. Students MUST be indentured in the IBEW Sign Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable electrical tools.
- Comprehend and utilize formulas used in the calculations of all phases of electrical work.
- Install all necessary equipment to complete any electrical system.
- Demonstrate the ability to troubleshoot and repair any problems that arise in electrical systems.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
ELEC 127B Mobile Equipment Safety	1	_____
ELEC 137B OSHA 30	2	_____
ELEC 171B Sign Apprentice I	4	_____
ELEC 172B Sign Apprentice II	4	_____
ELEC 173B Sign Apprentice III	4	_____
ELEC 174B Sign Apprentice IV	4	_____
ELEC 175B Sign Apprentice V	4	_____
ELEC 176B Sign Apprentice VI	4	_____

Computation included in ELEC 172B, 174B, 176B

Human Relations included in ELEC 171B, 176B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Special consideration will be given students who complete the Trade Union Sign Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

ELSIGN-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

APPRENTICESHIP
(COA)

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Stationary and Maintenance Engineer. **This is a restricted entry program. Students MUST be indentured in the Stationary Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable stationary and maintenance engineers tools.
- Comprehend and utilize formulas used in the calculations of all phases of stationary and maintenance engineering work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in stationary and maintenance engineering systems.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPME 102B Fundamentals of Electricity	3	_____
OPME 103B Introduction to the National Electric Code	3	_____
OPME 105B Domestic Refrigeration	2	_____
OPME 106B Mechanical Power Transmission (Instrumentation)	3	_____
OPME 107B Low Pressure Steam	3	_____
OPME 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	3	_____
OPME 109B High Pressure Steam	3	_____
OPME 110B Electrical, Heating and Cooling	4	_____
OPME 114B Automated Manufacturing Control	3	_____

Computation included in OPME 106B, 108B, 110B, 114B
Human Relations included in OPME 108B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPME journeyman course offered for credit may be substituted for any of the above OPME apprenticeship courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Operating Maintenance Engineers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPME-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares the student for employment as a Structural Steel Ironworker Journeyman with the Ironworkers Union. **This is a restricted entry program. Students MUST be indentured in the Structural Steel Ironworkers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable structural steel tools.
- Comprehend and utilize all formulas used in the calculations of all phases of structural steel work.
- Comprehend the ability to troubleshoot and repair any problems that arise in structural steel installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (34 Credits):

	CR	SEMESTER
IRW 110B Introduction to Ironworking	2	_____
IRW 111B Introduction to Major Work Areas	2	_____
IRW 112B Metal Buildings	3	_____
IRW 114B Mixed Base for Ironworkers	3	_____
IRW 150B Rigging for Ironworkers	3	_____
IRW 152B Welding I for Ironworkers	3	_____
IRW 153B Structural Steel I	3	_____
IRW 156B Welding II for Ironworkers	3	_____
IRW 203B Structural Steel II	3	_____
IRW 205B Ornamental Iron I	3	_____
IRW 207B Structural Steel III/Precast	3	_____
IRW 208B Foreman Training for Ironworkers or IRW 209B Ornamental Iron II	3	_____

Computation included in IRW 114B, 205B
Human Relations included in IRW 208B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any IRW journeyman course offered for credit may be substituted for any of the above IRW apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Structural Steel Ironworker Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

IRWSTL-CT

37
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Surveyor with the Operating Engineers Union. **This is a restricted entry program. Students MUST be indentured in the Operating Engineers Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable surveyors' tools.
- Comprehend and utilize formulas used in the calculations of all phases of surveyor's work.
- Demonstrate the ability to troubleshoot and repair any problems that arise in surveyor's work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
OPE 101B Introduction to Apprenticeship/Operation and Maintenance	5	_____
OPE 110B Technical Sketching	5	_____
OPE 111B Land Surveying	5	_____
OPE 116B Machinists/Surveyors Math	5	_____
OPE 117B Applied Math for Surveyors	5	_____
OPE 270B OSHA 30	2	_____

Computation included in OPE 116B, 117B

Human Relations included in OPE 101B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any OPE journeyman course offered for credit may be substituted for any of the above OPE apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Operating Engineers Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

OPESUV-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Convention Teamster with the Teamsters Union. **This is a restricted entry program. Students MUST be indentured in the Convention Teamster Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable convention teamster tools.
- Comprehend and utilize formulas used in the calculations of all phases of convention teamster work.
- Comprehend the ability to troubleshoot and repair any problems that arise in convention teamster work.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
TMST 100B OSHA General Industry Class	1	_____
TMST 120B Introduction to the Convention Industry	2	_____
TMST 130B Beginning Decorating	2	_____
TMST 140B Beginning Systems	1	_____
TMST 150B Beginning Design and Repair	2	_____
TMST 160B Beginning Installation and Dismantle	2	_____
TMST 170B Forklift Theory	3	_____
TMST 200B Advanced Forklift	3	_____
TMST 220B Advanced Installation and Dismantle	3	_____
TMST 230B Lead Foreman Training	2	_____
TMST 240B First Aid/CPR	1	_____
TMST 250B Condor Operating	3	_____
TMST 260B Rigging	1	_____
TMST 270B Scissor Lift	1	_____

Computation included in TMST 160B, 220B

Human Relations included in TMST 130B, 160B, 200B, 220B, 230B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any TMST journeyman course offered for credit may be substituted for any of the above TMST apprentice courses. Please see the program coordinator for details.

Special consideration will be given students who complete the Teamster Convention Training, Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CONVEN-CT

30
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT

This program prepares students for employment as a Journeyman Tile Setter with the Tile Setters Union. **This is a restricted entry program. Students MUST be indentured in the Tile Setters Apprenticeship Program before enrolling in classes.** For further information, contact the Division of Apprenticeship Studies at 651-4163.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend and utilize all applicable tile setter tools.
- Comprehend and utilize formulas used in the calculations of all phases of tile setting.
- Comprehend the ability to troubleshoot and repair any problems that arise in tile setting installations.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: COM 101, 215, ENG 101	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

	CR	SEMESTER
TLS 101B Tile Setter Apprentice I	4	_____
TLS 102B Tile Setter Apprentice IB	4	_____
TLS 105B OSHA/First Aid/CPR for Tile Setters	3	_____
TLS 151B Tile Setter Apprentice II	4	_____
TLS 152B Tile Setter Apprentice IIB	4	_____
TLS 201B Tile Setter Apprentice III	4	_____
TLS 202B Tile Setter Apprentice IIIB	4	_____

Computation included in TLS 101B, 102B, 151B, 152B, 201B, 202B

Human Relations included in TLS 101B, 102B

Students may elect to graduate using the degree requirements in effect at the time of matriculation or completion. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program.

Any TLS journeyman course offered for credit may be substituted for any of the above TLS apprentice courses. Please contact the program coordinator for details.

Special consideration will be given students who complete the Tile Setters Certificate of Achievement if they are affected by the retroactive six year rule.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

TILE-CT

30
Total Credits

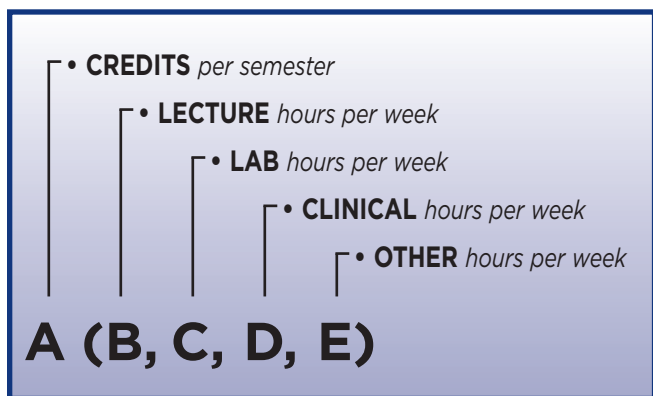
Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

COURSE DESCRIPTIONS

The following course descriptions are intended to briefly describe the nature of each of the courses. For more complete information, departments or faculty can provide specific course syllabuses.

The numbers in the right side of each description define the credits and average weekly contact hours the student will spend in formal classes during a 16 week semester. Classes scheduled for other than a 16 week semester will have the contact hours adjusted accordingly.

- A - defines the number of semester credits
- B - average number of lecture hours per week
- C - average number of laboratory hours per week
- D - average number of clinical hours per week
- E - average number of other formal instructional hours per week



In addition to these hours, students are expected to complete homework assignments on their own time. These assignments may include library research, computer utilization, field trips, cultural performances, and other instructional activities.

EXAMPLE

ENG 101	Composition I	3 (3,0,0,0)
	3 credits	
	3 lecture hours	
	0 laboratory hours	
	0 clinical hours	
	0 other hours	

APPRENTICESHIP

Environmental and Construction Workers

APPRENTICESHIP COURSES

APP 102B Introduction to Apprentice Craft 4 (3,2,0,0)

Skills in building, utility, heavy highway and environmental fields. Job site safety, First Aid/CPR, hazard communication, OSHA awareness and human relations. Graded Pass/Fail.

APP 104B General Construction 4 (4,1,0,0)

Job preparation, planning, site and soils preparation. Material handling, storage, vertical/horizontal measuring techniques, transfer of grade points and safety topics. Graded Pass/Fail.

APP 105B Concrete Flat Work 2 (1,2,0,0)

This course covers mathematics, soil preparation and placement/consolidation procedures. Additional topics include set-up/stripping of forms and finishing of horizontal concrete placements. Graded Pass/Fail.

APP 107B Concrete Walls and Columns Work 2 (1,2,0,0)

This course covers mathematics, soil preparation and placement/consolidation procedures for vertical walls and columns. Additional topics include concrete equipment safety and proper hand signals. Graded Pass/Fail.

APP 108B Body Mechanics and Fall Protection 1 (1,0,0,0)

Proper lifting and prying techniques to minimize physical injuries. OSHA subpart M: fall protection standards. Graded Pass/Fail.

APP 109B Bobcat Operation and Safety 1.5 (1,0.66,0,0)

This course will cover the proper and safe operation of a bobcat using either the front end loader or the backhoe attachment. Graded Pass/Fail.

APP 120B Confined Space Awareness 2 (2,0,0,0)

Definition and recognition of potential hazards involved with working in confined spaces. Air monitoring, protective equipment, evacuation and rescue techniques, OSHA standards and proper documentation. Graded Pass/Fail.

APP 121B Line and Grade 4 (3,2,0,0)

Maintaining elevation/alignment control of heavy highway/civil construction activities. Measurement systems, slope expressions, curb/gutter elevations and quantity calculations. Graded Pass/Fail.

APP 122B Oxyfuel Gas Cutting 4 (3,2,0,0)

Proper and safe use of oxygen and acetylene cutting torches. Various techniques in the construction and demolition field. Graded Pass/Fail.

APP 123B Blueprint Reading for Laborers 3 (3,0,0,0)

Plan reading skills in civil, architectural, structural/mechanical and electrical drawings. Graded Pass/Fail.

APP 127B Rigging and Signaling 2 (2,1,0,0)

Hoisting and signaling procedures, emphasis on load weights, distribution techniques, sling angles and ratios. Graded Pass/Fail.

APP 128B Asphalt 2 (2,1,0,0)

Placement, spreading and compaction of asphaltic materials. Repairing and patching techniques. Graded Pass/Fail.

APP 130B Hazardous Waste Handling for Laborers 4 (3,2,0,0)

Hazard recognition, identification, health effects, decontamination, protective equipment, material handling, storage and sampling techniques. Graded Pass/Fail.

APP 132B Radiation 1 (1,1,0,0)

Properties of radiation, sources of exposure, health effects, and detection instruments. Graded Pass/Fail.

APP 133B Lead Renovator 1 (1,0,0,0)

This course will focus on the approved procedures for identifying lead based paint hazards and minimizing lead dust generation and soil contamination during weatherization, maintenance, renovation and remodeling activities conducted on pre-1978 private housing and public use facilities. Graded Pass/Fail.

APP 134B Lead Abatement 2 (2,1,0,0)

Safe removal procedures for various materials containing lead. Health effects, work practices, disposal procedures, and protective equipment. Graded Pass/Fail.

APP 135B Asbestos Supervisor 2 (2,0,0,0)

This mandatory course meets all OSHA requirements for all workers involved in Class I and Class II asbestos abatement work. The course exceeds EPA's 32 hour minimum course requirements stipulated under 40 CFR Part 763. Graded Pass/Fail.

APP 136B Asbestos Abatement 2 (2,1,0,0)

Hazards, health effects, abatement techniques, safe work practices, protective equipment and regulations pertaining to asbestos removal. Graded Pass/Fail.

APP 137B Pipe Laying (Gravity Flow) 2 (1,2,0,0)

This course covers trenching, shoring and soil types. Additional topics include worker protective systems and confined space entry requirements. Graded Pass/Fail.

APP 139B Pipe Laying (Pressurized) 2 (1,2,0,0)

This course covers installing, joining and testing of pressurized piping systems. Additional topics include worker protective systems, confined space entry requirements and safety inspections. Graded Pass/Fail.

APP 140B Scaffold Building 2 (1,2,0,0)

Basic scaffold assembly in a variety of situations. OSHA standards for scaffolds and ladders. Graded Pass/Fail.

APP 142B Forklift Operations and Awareness 1 (1,0,0,0)

Instruction on forklift operations with emphasis on the rough terrain forklift. Proper operation and maintenance procedures along with OSHA regulations and standards. Graded Pass/Fail.

APP 144B Operation of Motor Driven Power Equipment 1 (1,0,0,0)

This course covers the operation and safety requirements of powered equipment. The OSHA requirements for personal protective equipment and inspection are also covered. Graded Pass/Fail.

APP 146B Operation of Concrete Core Drilling, Saw Cutting and Compaction Equipment 1 (1,0,0,0)

This course covers the operation and safety requirements of powered cutting, core drilling and compaction equipment. Additional topics include OSHA regulations regarding hazardous equipment. Graded Pass/Fail.

APP 150B Mason Tending (Trowel) 2 (1,2,0,0)

This course covers the safety requirements for operator hand signals, vehicle operation and material handling. Additional topics include tool/material identification and tube/coupler scaffolding. Graded Pass/Fail.

APP 152B Plaster Tending (Mixing) 2 (1,2,0,0)

Safety hazards associated with plaster tending and material data sheets are presented. OSHA safety standards for mixing plaster, clean up of plaster mortar, synthetic plaster and additives are covered. Graded Pass/Fail.

APP 160B Miners Preparedness and Awareness 4 (3,2,0,0)

Awareness of hazards and working conditions stressed for workers in mines and tunnel shaft reinforcement techniques. Graded Pass/Fail.

APP 161B Underground Electric Conduit Installation 1 (0,2,0,0)

Terms and definitions. Soil characteristics for type A, B and C soils. Trenching, shoring and excavations. Back-fill compaction techniques. Proper bedding procedures. Graded Pass/Fail.

APP 162B Drilling and Blasting 4 (3,2,0,0)

Operation and safe use of drilling equipment. Explosive blasting agents, caps and layout methods. Graded Pass/Fail.

APP 163B Tunnel and Shaft 3 (2,2,0,0)

The recognition of underground construction hazards and the action following safety standards taken to eliminate them or control them. Graded Pass/Fail.

APP 164B Pneumatic Air Tool Handling 2 (0,4,0,0)

Operation, storage, maintenance and protective equipment relating to air tools common to construction sites. Graded Pass/Fail.

APP 165B Rock and Water 1 (0,2,0,0)

Mixing of plaster mixes and application to semi-structural and structural fabricated wire mesh. Use of latex molds and installation of prefabricated artificial rock sections. Graded Pass/Fail.

APP 166B Mine Rescue 1 (1,0,0,0)

Mine safety and proper techniques for first responder. First Aid and rescue procedures for mine and tunnel shaft workers. Graded Pass/Fail.

APP 167B Drywall Stocking 1 (0,2,0,0)

Calculating square footage by reading the blueprint as to the amount of drywall needed in a particular room and stocking it there. Graded Pass/Fail.

APP 168B Microbial Remediation 1 (1,0,0,0)

Safe abatement procedures for bacterial growth in walls and framework of buildings. Graded Pass/Fail.

APP 169B Landscaping 1 (0,2,0,0)

Proper use of hand tools and machinery related to sprinkler trenching. Techniques in using solvents and solvent cements as it applies to sprinkler installation. Graded Pass/Fail.

APP 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Laborers trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

APP 200B OSHA for Laborers 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Laborers trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders and scaffolding. Graded Pass/Fail.

APP 212B Foreman Preparedness 2 (2,0,0,0)

This course provides prospective foreman the human relations skills and leadership techniques needed in the construction industry. Topics include communication, project organization and problem solving. Graded Pass/Fail.

APP 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Laborers Trade. Graded Pass/Fail.

APP 263B Weatherization Installation Technician 5 (4,2,0,0)

Building Science is detailed. Sealing the building envelope is demonstrated. Insulating and sealing ductwork is displayed. Installing insulation is illustrated. Graded Pass/Fail.

APP 266B Weatherization Supervisor 3 (3,0,0,0)

Inspecting and monitoring the job site is detailed. Diagnostic testing procedures are demonstrated. How to conduct and interpret combustion appliance safety and efficiency tests is illustrated. Graded Pass/Fail. Prerequisite: APP 263B.

APP 269B Weatherization Energy Auditor 3 (3,0,0,0)

This course covers the selection, use and operation of diagnostic equipment for energy efficiency. Job planning, material selection and interpreting diagnostic results are also covered. Graded Pass/Fail. Prerequisites: APP 263B, 266B.

Heat and Frost Insulators

ASB 101B Asbestos Worker I 4 (3,2,0,0)

Understanding and competency in applied math for insulators, labor history and fundamental insulation for piping.

ASB 102B Asbestos Worker II 3 (3,0,0,0)

Understanding and competency in vapor barriers and construction safety.

ASB 111B Asbestos Worker III 3 (3,0,0,0)

Understanding and competency on a higher level in construction safety and applied math for insulators.

ASB 112B Asbestos Worker IV 5 (4,2,0,0)

Understanding and competency in fundamental insulation of equipment.

ASB 120B Asbestos Worker V 4 (3,2,0,0)

Understanding and competency in advanced metal jacketing for piping.

ASB 121B Asbestos Worker VI 4 (3,2,0,0)

Understanding and competency in advanced metal jacketing for equipment.

ASB 150B Environmental Survey 2 (1,2,0,0)

This course introduces the student to the operation and analysis of thermal images produced by an Infrared Thermal Camera. Topics include software used and report analysis created by the system. Graded Pass/Fail.

ASB 160B Environmental Survey II 2 (1,2,0,0)

This course focuses on advanced facility inspections and infrared images to collect data and create Energy Insulation Survey reports. Prerequisite: ASB 150B. Graded Pass/Fail.

ASB 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Heat and Frost Insulators Trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

ASB 201B Asbestos Worker VII 6 (5,2,0,0)

Understanding and competency in removable insulation design, blueprint codes and specifications.

ASB 202B Asbestos Worker VIII 6 (5,2,0,0)

Understanding effective supervision and all aspects of construction safety.

ASB 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Heat and Frost Insulators Trade. Graded Pass/Fail.

Bricklayers

BRL 101B Bricklayers' Apprentice I 4 (2,4,0,0)

Labor/management relations, math, safety, clothing and tools. Materials and equipment. Basic tool/mortar manipulation for spreading, buttering and mason tending. Overhand and veneer bricklaying.

BRL 102B Bricklayers' Apprentice IB 4 (2,4,0,0)

Laying 8"x4", 4"x8", and 8"x8"x16" block. Working masonry veneer with 4"x4"x16", 4"x8"x16" block and brick. Math and safety.

BRL 105B OSHA/First Aid/CPR for Bricklayers 3 (3,0,0,0)

Standards pertaining to construction. Techniques of administering first aid and cardiopulmonary resuscitation. Graded Pass/Fail.

BRL 151B Bricklayers' Apprentice II 4 (2,4,0,0)

Erecting brick masonry veneer. Working the brick and block leads, corners and piers. Math and safety.

BRL 152B Bricklayers' Apprentice IIB 4 (2,4,0,0)

Working the masonry wall with 4" brick and brick/block cavity. Working the mechanical wall using 4" brick/block and 8"x8"x16" block. Math and safety.

BRL 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Bricklayers' Trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

BRL 201B Bricklayers' Apprentice III 4 (2,4,0,0)

Laying pavers using the one and two step method. Building regular and heat form fireplaces. Masonry arch construction using basic block. Math and safety.

BRL 202B Bricklayers' Apprentice IIIB 4 (2,4,0,0)

Masonry arch construction using basic block. Rake wall/chimney off methods for masonry veneering. Radius wall method using glass block or brick. Math and safety.

BRL 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Bricklayers' Trade. Graded Pass/Fail.

Cement Masons

CMA 111B Cement Mason Apprentice I 4 (3,2,0,0)

Identify and employ proficiency using various hand tools for repairing concrete surface defects or finishing concrete. OSHA 10 is presented along with safety procedures while operating on scaffolds, scissor and/or boom lifts.

CMA 112B Cement Mason Apprentice IB 3 (2,2,0,0)

Identify and demonstrate treatment methods in repairing concrete surface defects. First Aid/CPR are demonstrated and practiced. Sexual Harassment Prevention I and Respirator Fit are presented.

CMA 141B Cement Mason Apprentice II 3 (2,2,0,0)

Using levels and transits to determine site layout to include drives, approaches, curbs, and gutters are demonstrated and practiced. Calculate and apply measurements in forming steps to specifications.

CMA 142B Cement Mason Apprentice IIB 4 (3,2,0,0)

Fundamental math, estimating, measuring, and blueprint reading are presented and practiced. Proficiency in First Aid/CPR is repeated. Sexual Harassment Prevention II is presented. Hard troweled floors and decorative saw cutting are demonstrated.

CMA 201B Cement Mason Apprentice III 3 (2,2,0,0)

Structural repairs including epoxy injection and the use of power screeds are demonstrated and practiced. Various floor finishes including stenciling and imprinting designs on concrete are demonstrated and practiced.

CMA 202B Cement Mason Apprentice IIIB 4 (2,4,0,0)

Application of chemical staining/sealants, along with operating a troweling machine and rough terrain forklift are demonstrated and practiced. Pervious and other concrete finishes are demonstrated and practiced. Proficiency in First Aid/CPR is repeated.

CMA 251B Cement Mason Apprentice IV 3 (2,2,0,0)

Demonstrate curing and other protection methods of wet concrete. Develop working knowledge of shotcrete, abrasive blasting, epoxy floors and special coatings. Tilt-up panels, and underlayment/overlayment processes are also discussed.

CMA 252B Cement Mason Apprentice IVB 4 (3,2,0,0)

OSHA 30 is presented along with safety procedures while working on scaffolds, scissor, and/or boom lifts. Develop working knowledge of soil conditions and sub-grade preparation. Certify ACI Flatwork Finisher and Technician.

Carpenters

CPT 102B Orientation 2 (2,0.66,0,0)

This course provides an overview of the construction industry, safety, and green building awareness. Successful students will receive OSHA 10 certification and UBC qualification cards.

CPT 104B Safety and Health Certifications 2 (2,0.66,0,0)

This course covers the safe and appropriate use of scaffolds, aerial lift equipment, and emergency response procedures. Successful students will receive First Aid and CPR certification and UBC qualification cards.

CPT 105B Basic Wall Framing 1.5 (1.33,1.33,0,0)

This course presents the theory, methods, and procedures required to frame basic walls. Hands-on practice using proper tool techniques and appropriate materials will enhance fundamental skill development.

CPT 107B Print Reading 2 (2,0.66,0,0)

This course introduces basic visualization skills needed for reading and interpreting construction prints. Views, elevations and the role of specifications as they relate to prints will be discussed.

CPT 109B Basic Roof Framing 1.5 (1.33,1.33,0,0)

This course provides an introduction to basic gable roof framing, terminology and construction characteristics. Students will interpret print views and drawing elevations for job planning, and to determine rafter systems and layout details.

CPT 111B Wall Forming 1.5 (1.33,1.33,0,0)

This course provides forming methods for reinforced concrete walls. Blueprint reading, estimating, introduction to form design, and hands-on single and double-waler forming projects are included in training.

CPT 113B Doors and Door Frames 1.5 (1.33,1.33,0,0)

This course covers the installation process from constructing rough openings to hanging and adjusting doors. An emphasis will be placed on print interpretation, door schedules, symbols, and hardware recognition.

CPT 115B Transit Level/Laser 2 (2,0.66,0,0)

This course covers the terminology, optical principles, and operating procedures for the transit and laser levels. Students will set up levels, determine benchmarks, take and record elevation readings.

CPT 117B Foundations and Flatwork 1.5 (1.33,1.33,0,0)

This course covers the design and function of several types of foundations and concrete flatwork. The methods, techniques and procedures for formwork layout, elevation, and construction will be presented.

CPT 119B Bridge Construction 1.5 (1.33,1.33,0,0)

This course provides students with an overview of basic bridge construction. Descriptions for exterior and interior girders, edge forms, bulkheads and hinge forms will be presented.

CPT 121B Stair and Ramp Forming 1.5 (1.33,1.33,0,0)

This course provides the students with the methods, procedures and practices used to form stair and ramp structures. State and Federal building codes pertaining to stairs and ramps will be covered in this class.

CPT 123B Beam and Deck Forming 1.5 (1.33,1.33,0,0)

This course will introduce the use of various woods, and patented forming systems for construction of concrete beams and decks. Students will identify formwork types and installation techniques including calculating materials and setting beam and deck forms.

CPT 125B Cabinet Millwork and Assembly 1.5 (1.33,1.33,0,0)

This course details cabinetry fabrication from design and function, through the complete production process. An emphasis will be placed on print interpretation, job planning and proper construction sequence.

CPT 127B Commercial Floor Framing 1.5 (1.33,1.33,0,0)

This course covers floor joist construction and the various installation techniques used within the commercial industry. Students will interpret floor plans for job planning, interpretation of the applicable floor joist system and to calculate material take offs.

CPT 129B Advanced Print Reading 2 (2,0.66,0,0)

In this course, students will analyze multi-view drawings to determine construction type, locate benchmark, find building element and review codes, references, and perform calculations for construction purposes.

CPT 131B Cabinet Installation 2 (2,0.66,0,0)

This comprehensive course covers cabinet installation from establishing the design layout to attaching countertops. An emphasis will be placed on print interpretation, job planning, and proper installation sequence.

CPT 133B Moldings and Trim 1.5 (1.33,1.33,0,0)

This course covers how moldings and trims are utilized to finish exterior and interior construction design features. The tools and techniques for cutting, coping and installing various molding and trim types are presented.

CPT 135B Tilt-Up Panel Construction 1.5 (1.33,1.33,0,0)

This class will cover layout techniques on a typical tilt-up panel and the importance of layout methods in squaring a panel. Identifying specific openings and the location of finish floor lines and roof lines through blueprint reading will be included.

CPT 137B Rigging 2 (2,0.66,0,0)

This course presents both lifting theory and practical rigging methods and procedures. Rigging attachment procedures, lifting equipment, limits of operation and communication practices will be covered. Successful students will receive UBC rigging qualification cards. Graded Pass/Fail.

CPT 139B Solar Installer I 1.5 (1.33,1.33,0,0)

This course covers the design and function of several types of solar installation. The methods, sequences and procedures for mounting layout, elevation/positioning, and assembly for solar construction will be presented.

CPT 141B Basic Metal Framing 1.5 (1.33,1.33,0,0)

This course provides an overview of residential metal framing theory and construction techniques. Students will interpret prints for job planning and to estimate materials.

CPT 143B Doors and Door Hardware 1.5 (1.33,1.33,0,0)

This course covers the installation process for several types of security and exit door hardware. Discussion of electrical and card reader systems will be included. An emphasis will be placed on print interpretation, codes, door schedules, symbols, and hardware recognition.

CPT 145B Scaffold Erector Qualification 2 (2,0.66,0,0)

This course will cover the basic techniques and procedures associated with frame, system, and tube/clamp scaffold components. Successful students will receive UBC qualification card.

CPT 147B Trade Show 1.5 (1.33,1.33,0,0)

This course will introduce technical installation and social skills pertaining to the trade show industry. Students will identify configurations and install components for selected types of booths.

CPT 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Carpenters Trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

CPT 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Carpenters trade. Graded Pass/Fail.

CPT 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Carpentry trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

Drywall Applicator

DWA 101B Orientation 2 (2,0.66,0,0)

This course provides an overview of the construction industry, safety and green building awareness. Successful students will receive tool certification and UBC qualification cards.

DWA 103B Safety and Health Certifications 2 (2,0.66,0,0)

This course will provide safety and health training that meets the needs of the interior systems industry. The content of the course will include certification in Power Industrial Trucks, Aerial Lift, American Red Cross First Aid/CPR/AED and OSHA 10.

DWA 105B Basic Metal Framing 1.5 (1.33,1.33,0,0)

Designed to familiarize students with light gage steel products used in the interior systems industry, this course identifies safe tool use, framing materials, various trims and installation techniques.

DWA 107B Print Reading 2 (2,0.66,0,0)

This course introduces basic visualization skills needed for reading and interpreting construction prints. Views, elevations and dimension calculations will be used to complete basic layout for various types of commercial projects.

DWA 109B Basic Lathing 1.5 (1.33,1.33,0,0)

This course introduces basic lathing materials and tools used in the industry for exterior/interior installations. Tool safety, waterproofing, lath and trim application procedures will be explained and demonstrated.

DWA 111B Drywall Application 1.5 (1.33,1.33,0,0)

This course will focus on the needed skills to properly handle and install drywall used in specialized applications including fire resistance and sound control.

DWA 113B Drywall Installation/ Finish Trims 1.5 (1.33,1.33,0,0)

This course will introduce drywall handling methods, applications and recommended levels of drywall finish to achieve the desired esthetics. An emphasis will be placed on trim attachment and finishing techniques.

**DWA 115B Framing
Ceilings and Soffits 1.5 (1.33,1.33,0,0)**

This course identifies various applications and materials used for fire rated walls, ceilings and soffits. Methods and procedures used for layout and template development, dry-wall and trim attachment are covered.

**DWA 117B Framing
Curves and Arches 1.5 (1.33,1.33,0,0)**

This course provides instruction in framing methods for curves and arches and their related structural limitations. Identify the various wall and ceiling types, layout principles and materials used for each. Lath applications and trim are also presented.

**DWA 119B Framing
Suspended Ceilings 1.5 (1.33,1.33,0,0)**

This course identifies the materials used for various types of suspended ceilings and drywall grid systems. The principles of suspension layout, suspension methods and attachment procedures will be presented.

**DWA 121B Advanced
Metal Framing 1.5 (1.33,1.33,0,0)**

This course will begin with a quick review of basic metal framing followed by detailed procedures for framing curved, serpentine and elliptical non-load bearing partitions.

DWA 123B Advanced Lathing 1.5 (1.33,1.33,0,0)

This course presents advanced methods and application techniques for lath and trim products used on exterior/interior metal framing.

**DWA 125B Drywall/
Acoustical Ceilings 1.5 (1.33,1.33,0,0)**

This course identifies the materials and methods used for the installation of acoustical ceilings. Seismic codes, materials and requirements are covered along with installation procedures for various grid systems.

DWA 127B Advanced Print Reading 2 (2,0.66,0,0)

This course will provide in-depth training for on-the-job print reading scenarios. The role of specifications and the importance of codes and regulations will be presented.

DWA 129B Free-Form Lathing 2 (2,0.66,0,0)

This course provides a comprehensive study of the theory and techniques used for the development of free-form lathing projects, including design and cage work development.

**DWA 131B Light Gage
Welding - AWS 2 (2,0.66,0,0)**

The content of this course will focus on written and performance test requirements. Test plates for AWS performance testing will be produced. Successful students will receive AWS D1.3 Light Gage Certification.

**DWA 133B Firestop/Fireproofing
Procedures 2 (2,0.66,0,0)**

This course will focus on the correct methods, technical skills and fireproofing materials required in the work place today. Strict building codes mandate the importance of certified training.

**DWA 135B Reinforced
Substrate Installations 1.5 (1.33,1.33,0,0)**

This course will present the applications, techniques and product considerations typical of reinforced substrate installations. The training will focus on Glass Fiber Reinforced Gypsum (GFRG) and Glass Fiber Reinforced Concrete (GFRC) products.

**DWA 137B Scaffold Erector
Qualification 2 (2,0.66,0,0)**

This course will cover the basic techniques and procedures associated with frame, system and tube/clamp scaffold components. Successful students will receive UBC qualification card. Graded Pass/Fail.

**DWA 139B Light Gage
Welding - AWS A 1.5 (1.33,1.33,0,0)**

This course covers AWS light gage welding methods, codes and techniques. Hands-on experience will reinforce proper use of the welding procedures.

**DWA 141B Exterior Insulation
Finish Systems - EIFS 1.5 (1.33,1.33,0,0)**

This course is an introduction to exterior insulation finish systems including terminology, definitions and specifications. Reinforcing mesh, insulation board installation and application methods for primers and finishes will be covered.

**DWA 143B Door and
Door Frames 1.5 (1.33,1.33,0,0)**

Designed as an introduction to the doors and door frames used in the interior systems industry, the course discussions will incorporate applicable regulation governing door openings and door selection.

DWA 145B Transit Level/Laser 2 (2,0,0.66,0,0)

This course covers the terminology, optical principles and operating procedure for transit and laser levels. Students will set up levels, determine benchmarks and take and record elevation readings.

DWA 147B Basic Hand Finishing 1.5 (1.33,1.33,0,0)

This course develops basic hand finishing skills using the correct tools and materials. The training will include a description of finishing levels, hand tool manipulation, material identification, selection and mixture preparation.

Drywall Finishers

DWF 101B Orientation 1.5 (1.33,1.33,0,0)

This course provides an overview of the construction industry, safety and green building awareness. Successful students will receive tool certification and UBC qualification cards.

DWF 103B Safety and Health Certifications 1.5 (1.33,1.33,0,0)

This course will provide safety and health training that meets the needs of the interior systems industry. The content of the course will include certification in Power Industrial Trucks, Aerial Lift, American Red Cross First Aid/CPR/AED and OSHA 10.

DWF 105B Basic Hand Finishing 1.5 (1.33,1.33,0,0)

This course develops basic hand finishing skills using the correct tools and materials. The training will include a description of finishing levels, materials and mixture preparation.

DWF 107B Print Reading 1.5 (1.33,1.33,0,0)

This course introduces basic visualization skills needed for reading and interpreting construction prints. View, elevations and dimension calculations will be used to complete basic layout for various types of commercial projects.

DWF 109B Automatic Finishing Tools 1.5 (1.33,1.33,0,0)

This course will present basic automatic tool techniques and introduce finish schedule interpretation. Hands on instruction with machine tools and the importance of proper use, assembly and breakdown will be included.

DWF 111B Finishing Trims 1.5 (1.33,1.33,0,0)

In this course an emphasis will be placed on trim attachment and finishing techniques. Local sources and waste reduction will be discussed.

DWF 113B Advanced Hand Finishing 1.5 (1.33,1.33,0,0)

This course will focus on advanced methods and applications using hand tool techniques. Emphasis on proper sequence of operation, phases and materials to be used in order to produce a higher level finished product to industry standards.

DWF 115B Ceiling and Soffit Finishing 1.5 (1.33,1.33,0,0)

This course is designed to provide an advanced level of finishing skill for applications with architecturally detailed ceilings and soffits.

DWF 117B Advanced Automatic Finishing Tools 1.5 (1.33,1.33,0,0)

This course will advance the methods, applications and sequences of the bazoooka, skim boxes, nail spotters, angle boxes and emphasis ergonomics.

DWF 119B Decorative Trims 1.5 (1.33,1.33,0,0)

This course provides advanced hand and automatic tool finishing techniques used to apply decorative trims. Special attention will be given to specialty trim installation sequence and waste reduction.

DWF 121B Wet Wall Finishes 1.5 (1.33,1.33,0,0)

This course will present the industry application methods and product mediums typically used for wet wall finishes. Selection and use of painting equipment and low VOC coatings will be included in the training.

DWF 123B Machine and Hand Applied Textures 1.55 (1.33,1.33,0,0)

This training includes product information for texturing materials and application techniques. Special attention will be given to exploring environmentally safe products and materials.

DWF 125B Drywall Application and Scaffold Safety 1.5 (1.33,1.33,0,0)

This course will focus on environmentally safe materials and the needed skills to properly handle and install drywall. Scaffold set up and safe use will be emphasized in the hands-on activity.

DWF 133B Firestop/Fireproofing Procedures 1.5 (1.33,1.33,0,0)

This course will focus on the correct methods, technical skills and fireproofing materials required in the work place today. Strict building codes mandate the importance of certified training.

Electrical

ELEC 111B Electrical Apprentice I 4 (3,3,0,0)

History and structure of the I.B.E.W. Introduction to mathematics, tools and materials. Fundamentals of electron theory and job-site safety requirements are also discussed.

ELEC 112B Electrical Apprentice II 4 (3,3,0,0)

Introduction to basic electrical circuits. AC and DC current generation systems are discussed. Fundamentals of single phase and multiphase circuit wiring are introduced.

ELEC 115B Residential Apprentice I 4 (4,0,0,0)

Trade history, safety, identification of tools, equipment, materials, knot tying and the National Electrical Code. Mathematical electron theory, Ohm's Law, circuits, switches, receptacles, fasteners and conduit bending.

ELEC 116B Residential Apprentice II 4 (4,0,0,0)

Resistance in DC series, parallel and combination circuits. Current reactions, voltage functions and power calculations. Wire sizing, insulation properties, switches, multiple wire and phase systems.

ELEC 117B Residential Apprentice III 4 (4,0,0,0)

Job costing and drawing structured wiring systems. Comparing DC and AC, AC resistance, inductance and capacitance. Transformer principles, electromagnetism, and generators. Branch and appliance circuits.

ELEC 118B Residential Apprentice IV 4 (4,0,0,0)

Wiring methods, cable assemblies. Identifying boxes, fillings, panel boards, bending, grounding, watt-hour meters. Motor circuit calculations. AC/heating thermostats, furnace controls and wiring systems.

ELEC 119B Residential Apprentice V 4 (3,3,0,0)

Over current protection using fuses/circuit breakers. Electrical load calculation. Telephone systems, circuitry, wiring, ISDN connections and cabling. Sound systems, air conditioning/refrigeration and motors.

ELEC 120B Residential Apprentice VI 4 (3,3,0,0)

Home automation including pools and fountains. Security systems and alarm sensors. Solar power generation. Fire alarms and smoke detectors. Fiber optic installation.

ELEC 121B Electrical Apprentice III 4 (3,3,0,0)

National Electrical Code, mathematics of AC circuits, branch circuits, electrical testing, general lighting (incandescent and fluorescent), inductance, rectifiers and industrial safety.

ELEC 122B Electrical Apprentice IV 4 (3,3,0,0)

Introduction to transformer theories and applications. Principles of motor control and fire alarm systems are discussed. Safety topics and rigging requirements are covered.

ELEC 127B Mobile Equipment Safety 1 (1,0,0,0)

Mobile equipment safety procedures pertaining to work platforms, lift trucks and aerial boom lifts. Graded Pass/Fail.

ELEC 131B Electrical Apprentice V 4 (3,3,0,0)

Wiring systems, power factors, AC motors, control circuits, protective devices and safety.

ELEC 132B Electrical Apprentice VI 4 (3,3,0,0)

Three phase voltage and current relationships, Class I, II and III installations, circuit analysis, trouble shooting, fluorescent lighting and ballasts, National Electrical Code, first aid and safety.

ELEC 137B OSHA 30 2 (2,0,0,0)

OSHA policy and procedures pertaining to fall protection, electrical safety, materials handling, excavations, confined space, ladders, stairways, scaffolding, personal protective equipment and hazard communication. Graded Pass/Fail.

ELEC 141B Electrical Apprentice VII 4 (3,3,0,0)

The National Electrical Code is discussed. Additional topics include basic electronic circuit components, emergency lighting circuits and leadership development.

ELEC 142B Electrical Apprentice VIII 4 (3,3,0,0)

Special transistor circuits, static control logic circuits, instrumentation (electricity, temperature and pressure), static control circuit analysis.

ELEC 150B Electrical Apprentice IX 4 (3,3,0,0)

Human relations, low voltage, process control, telecommunication and high voltage testing.

ELEC 152B Electrical Apprentice X 4 (4,0,0,0)

Air conditioning/refrigeration, cable faults, UPS and programmable logic controllers.

ELEC 161B Installer/Technician Apprentice I 4 (3,3,0,0)

Math covering fractions, decimals, metric system, powers of ten and algebra. The structure of matter, electron theory, Ohm's Law, resistance/current/voltage/power in series circuits.

ELEC 162B Installer/Technician Apprentice II 4 (3,3,0,0)

Voltage resistance, current, power in parallel circuits, wire properties, conductor insulation, cabling and transmission, unshielded/shielded twisted pair cables and coaxial cabling systems. Fiber optics.

ELEC 163B Installer/Technician Apprentice III 4 (3,3,0,0)

DC combination circuits, voltage polarity and drops. DC comparison to AC. Three phase systems, magnetism and electromagnetism. Telephone circuitry/cabling and analog vs. digital signals.

ELEC 164B Installer/Technician Apprentice IV 4 (3,3,0,0)

Horizontal and backbone cabling. Grounding and banding. Network cabling and terminal-to-host computer networks. Servers, hubs, routers and bridges. Paging systems and telephone system interface.

ELEC 165B Installer/Technician Apprentice V 4 (3,3,0,0)

Inductive capacitive reactance, Kirchoff's Law, Thevenin's/Norton's theorems. Semiconductor diodes. Transistors, oscillators, integrated circuits, radio receivers, CCTV security systems. Video signal transmission, monitors, and recorders.

ELEC 166B Installer/Technician Apprentice VI 4 (3,3,0,0)

Camera pan/tilt mechanisms and housings. Video motion detectors and electronic image splitting. Doors, gates, turnstiles and electric locks. Home automation and nurse call systems.

ELEC 171B Sign Apprentice I 4 (4,0,0,0)

History, safety, identifying tools and equipment, knot tying and hoisting loads, sheet metal types. Fractions and trigonometric functions, conduit, neon tube types, voltage polarity and drops bending.

ELEC 172B Sign Apprentice II 4 (4,0,0,0)

Energized circuits and potential hazards. Electrical magnetism, aluminum conductors, overcurrent protection devices and ground fault interrupters. Arc and oxyacetylene welding. National Electric Code and blueprint reading.

ELEC 173B Sign Apprentice III 4 (4,0,0,0)

Three phase systems, circuit calculations and generators. Electrical test instruments including multimeters and oscilloscopes. Capacitors, divider and rectifiers. Vectors, RL circuits and LCR circuits.

ELEC 174B Sign Apprentice IV 4 (4,0,0,0)

Designing the sign. Glass bending, pumping systems, bombarding filling, testing and aging the complete luminous-tube sign. Neon sign chemistry. Production of fluorescent tubes.

ELEC 175B Sign Apprentice V 4 (4,0,0,0)

Kirchoff's Laws, Thevenin's and Norton's Theorems. Semiconductors and Zener diodes. Power supplies, transducers, transistors, switching and basing techniques. SCRs, triacs, diacs, UJT's, amplifiers, JFET's and MOSFET's.

ELEC 176B Sign Apprentice VI 4 (4,0,0,0)

Grounding, calculation of ground fault currents. Methods used for earth testing. Brazing and welding aluminum. Transformer overcurrent protection. Fuses, circuit breakers and short circuit calculations.

ELEC 177B Sign Apprentice VII 4 (4,0,0,0)

Lightning protection systems. AC, DC, repulsion, universal and polyphase motors. High voltage and insulation testing. Manual starters, magnetic coils, overload and phase failure relays.

ELEC 178B Sign Apprentice VIII 4 (4,0,0,0)

AC motor starters, stepping motors, wound-rotor and synchronous motor controls. Remote control and power limited circuits. Determining conductor ampacity. Calculating raceway fill. Fiber optics.

ELEC 230B Fire Alarm Systems - Level I 2 (2,0,0,0)

This course provides a detailed discussion on the topics associated with the installation of fire alarm systems.

ELEC 235 Fire Alarm Systems - Level II 1 (1,0,0,0)

This course is a continuation of ELEC 230B. The student will be preparing and testing for the State of Nevada F Card certification.

ELEC 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Electrical Trade. Graded Pass/Fail.

ELEC 250B Photovoltaic Systems 5 (5,0,0,0)

The course format includes both classroom instruction and hands-on participation, along with the complete process of designing, installing and commissioning photovoltaic systems.

ELEC 260B Photovoltaic Systems II 3 (3,0,0,0)

This course format includes both classroom instruction and hands-on participation dealing with photovoltaic net-metering systems, hybrid, and battery based (off grid) system designs.

ELEC 270B Instrumentation - Level I 4 (3,2,0,0)

This course will be the introduction to the fundamentals of instrumentation and process control.

ELEC 275B Instrumentation - Level II 4 (4,0,0,0)

This course is a continuation of ELEC 270B. The student will be preparing for the EPRI/ISA written exam.

ELEC 280B SMAW - Shielded Metal Arc Welding 4 (3,2,0,0)

This course will aid the student in developing the welding skills and techniques necessary in the industry through theory and practical application in a welding lab.

Floor Coverers

FLCV 100B Introduction to the Union and Construction Trade 1 (1,0,0,0)

The socioeconomic history of Unions as well as employability skills are the primary topics in this class.

FLCV 111B Introduction to the Flooring Trade 3 (3,0,0,0)

Resilient floor coverings, trim products, adhesives, underlayments, tools and equipment, as the basic materials needed by the floor coverer, are presented.

FLCV 121B Floor Installation Process 5 (3,4,0,0)

Procedures for the preparation of different surfaces are discussed. Installation of sheet goods, laminate and floor tile is also covered.

FLCV 131B Carpet Installation Process 5 (3,4,0,0)

Different types of carpeting and installation methods are discussed. Techniques for seaming, pattern match and woven installation are also covered.

FLCV 141B Special Floors and Finishes 3 (2,2,0,0)

Procedures for the installation of safety flooring is discussed. Purpose and maintenance of specialty flooring is also discussed.

FLCV 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Floor Coverers trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

FLCV 200B Math for Floor Coverers 2 (2,0,0,0)

The mathematical concepts from arithmetic, algebra and Pythagorean Theorem are covered. Measuring and estimating job costs are also covered.

FLCV 211B Drawings (Blueprints) for Floor Coverers 2 (2,0,0,0)

Aspects of blueprints including terminology, symbols and specifications are discussed. Additional topics include contract documents and construction methods.

FLCV 221B Safety Awareness 4 (4,0,0,0)

First Aid, CPR and OSHA regulations are discussed in detail. Additional topics include hazardous materials, ergonomics and personal protective equipment.

FLCV 231B Leadership 2 (2,0,0,0)

Effective leadership skills including organization, planning and job scheduling are discussed. Recognizing personality types and communication methods are also covered.

FLCV 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Floor Covers trade. Graded Pass/Fail.

FLCV 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Floor Coverers trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

Glaziers

GLZR 111B Glazier I 5 (4,2,0,0)

Covers the history of the trade, mathematics, hand tools, glass fabrication, power tool safety and sealants.

GLZR 112B Glazier II 3 (2,2,0,0)

Covers installing glass replacements, setting blocks, mirror mounting, communication, safety, rigging and hoisting.

GLZR 121B Glazier III 4 (3,2,0,0)

Covers glazing codes, sealants, mathematics, shop drawings, transits and leveling.

GLZR 122B Glazier IV 3 (3,0,0,0)

Covers aluminum entrances, locks, hinges, shower doors, security glazing, insulated and high performance glass.

GLZR 131B Glazier V 5 (4,2,0,0)

Covers panic hardware, hoisting signals, mathematics, swing stage, curtain wall, high-rise, ribbon wall and pressure wall.

GLZR 132B Glazier VI 5 (4,2,0,0)

Covers structural glazing, skylights, spandrel systems, leveling instruments, brake metal, mathematics and history.

GLZR 141B Glazier VII 5 (5,0,0,0)

Covers improving communications, sketching, drawing, blueprints, estimating, storefronts, revolving doors, seamless mullions, history, foreman and superintendent training.

GLZR 142B Glazier VIII 3 (1,4,0,0)

Covers safe workplaces, proper techniques, skill development and proficiency of Shielded Metal Arc Welding (SMAW). Welding and cutting of mild steels, in flat, horizontal, vertical and overhead positions.

GLZR 152B Lift and Swing Stage Safety 1.5 (1.5,0,0,0)

This comprehensive course covers the safety guidelines of lift and swing stage equipment. Topics covered include the use of hooks and cables to suspend the staging, and the proper use of different lift equipment: rough terrain forklift, scissor lift and boom lift. State, federal and local regulations of swing stage usage are discussed.

GLZR 153B Master Sealant 1 (1,0,0,0)

This comprehensive course covers sealant terminology, sealant selection, classifications of sealants, sealant properties, as well as the advantages and disadvantages of different types of sealants.

GLZR 154B Hoisting and Rigging 1 (1,0,0,0)

This comprehensive course covers basic knot, loop and hitches, as well as safe rigging methods and hoisting procedures. Glazing applications involve a crane and various rigging hardware.

GLZR 155B Equipment Safety 1.5 (1.5,0,0,0)

This comprehensive course covers the safety guidelines and proper use of scaffolds. A review in the proper use of swing stages, forklifts, scissor lifts and boom lifts will be conducted. OSHA standards and pertinent industry regulations will also be covered.

GLZR 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Glaziers trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

GLZR 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Glaziers trade. Graded Pass/Fail.

GLZR 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Glaziers trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

Iron Workers

IRW 110B Introduction to Ironworking 3 (2,2,0,0)

Overview of ironworking including rigging, structural steel, welding, burning and reinforcing iron.

IRW 111B Introduction to Major Work Areas 2 (0,4,0,0)

A continuation in a laboratory setting of the five segments introduced in IRW 110B.

IRW 112B Metal Buildings 1 (1,0,0,0)

This class provides the apprentice with hands-on experience in erecting a pre-engineered metal building. Emphasis is placed on interpreting charts and tables as well as safe work practices.

IRW 113B Ironworker History/ C.O.M.E.T. 3 (3,0,0,0)

This course discusses the history of the union, from the factors leading to the birth of the union to the major historic events that have occurred since.

IRW 114B Mixed Base for Ironworkers 3 (3,0,0,0)

Safety (OSHA) blueprint reading and mathematics as it applies to ironworkers.

IRW 116B Reinforcing Iron I 3 (3,0,0,0)

Understanding the forces when iron and concrete are combined as a building material. Techniques/procedures for fabrication and placing the iron. Use of special tools.

IRW 118B Mathematics for Ironworkers 1.5 (1.5,0,0,0)

This course covers basic numerical processes as well as an introduction to geometry, trigonometry, and metric measurement as they apply to ironworker applications.

IRW 120B Blueprint Reading 1.5 (1.5,0,0,0)

This course will cover construction blueprints commonly used in the industry. Students will be introduced to symbols, terms and application with an emphasis on function and interpretation.

IRW 134B Lead Hazard Awareness 2 (2,0,0,0)

This course will cover the health effects caused by lead exposure, OSHA regulations, sampling methods, legal rights of workers, the proper use of personal protective equipment and work methods.

IRW 150B Rigging for Ironworkers 3 (3,0,0,0)

Use of fiberline steel cable and chain in tackle/lever combinations for raising, transporting and storing of heavy loads. Use of access structures such as scaffolds.

IRW 152B Welding I for Ironworkers 2 (1,2,0,0)

This course introduces students to the structure of ferrous metals and their reaction to heat. Topics include the equipment and materials used in metal-shielded arc, gas-shielded arc and oxy-acetylene welding.

IRW 153B Structural Steel I 2 (2,1,0,0)

This course covers structural steel erection topics including history, safety, tools and equipment, drawings, handling materials, erecting structural members, plumbing and aligning structural steel, bolting up, and making connections.

IRW 154B Reinforcing Iron II 3 (3,0,0,0)

Understanding reinforcing iron placed under carefully controlled stresses in concrete being permanently imposed upon the product.

IRW 156B Welding II for Ironworkers 2 (1,2,0,0)

This course is a continuation of IRW 152B. Further study of the structure of ferrous metals and their reaction to heat, as well as, the equipment and materials used in various types of cutting and welding.

IRW 160B Post Tension I 2 (2,0,0,0)

This course covers principles and theories, safety practices, tools and equipment, unloading, handling, storage, installation, stressing, and finishing for all types of single-strand unbonded post tensioning systems.

IRW 162B Post Tension II 2 (2,0,0,0)

This course is a continuation of IRW 160B. Topics are reviewed and the student will be prepared to take the Post Tension Institute (PTI) Level 1&2 Unbonded Post Tension Ironworker Certification test.

IRW 164B Post Tension III 2 (2,0,0,0)

This course covers bonded post tensioning systems, as well as bar and multi-strand systems.

IRW 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Iron Workers trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

IRW 202B Welding III for Ironworkers 2 (1,2,0,0)

This course is a continuation of IRW 156B. Emphasis on skill development in both processes of ferrous and nonferrous metals in the flat, vertical and overhead positions, and for all types of joints.

IRW 203B Structural Steel II 2 (2,1,0,0)

The course is a continuation of IRW 153B. Topics include installation of metal decking and sheeting, erecting bridges, towers, wind turbines, clear span and amusement park structures. Also, the use of composite materials and reading of structural drawings.

IRW 204B Detailing I for Reinforcing Iron 3 (3,0,0,0)

Reading and interpreting the details of reinforcing iron, placing drawings, bar lists/schedules for the shop fabrication and field placement. Mathematical computations.

IRW 206B Detailing II for Reinforcing Iron 3 (3,0,0,0)

Analysis and interpretation of placing patterns and practices in the erection of a wide variety of reinforced concrete structures.

IRW 207B Structural Steel III/Cranes 2 (2,1,0,0)

This course provides training in how to safely erect and dismantle mobile cranes. Crane operation procedures and the responsibility of crane setup is emphasized.

IRW 208B Foreman Training for Ironworkers 3 (3,0,0,0)

Understanding the duties and responsibilities of personnel in a supervisory position. Human relations are emphasized along with employee needs, training employees and economics of supervision.

IRW 211B Architectural I 2 (1,2,0,0)

This course introduces the procedures and practices used in architectural and ornamental ironworking. Topics include the various tools used as well as anchors and fasteners.

IRW 212B Architectural II 2 (1,2,0,0)

This course will teach the apprentice how to erect a wide variety of doors, stairs, handrails, ladders, toilet partitions, vanity supports, relief angles, flagpoles and how to install chain link fences.

IRW 215B Precast Concrete 1 (1,0,0,0)

This course covers the erection of precast concrete buildings. Emphasis will be on proper rigging, handling and installing techniques of the precast concrete members.

IRW 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Iron Workers Trade. Graded Pass/Fail.

IRW 250B Scaffold User/Erector/Dismantler 0.5 (0.66,0,0,0)

This course is designed to provide the apprentice with training in scaffold erection, use and dismantling. Graded Pass/Fail.

IRW 255B Qualified Riggers for Ironworkers 1 (1,0,0,0)

This course will develop skilled Ironworker qualified riggers. The training meets qualification requirements under OSHA Subpart CC. Graded Pass/Fail.

IRW 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Iron Workers Trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

Millwrights

MWA 101B Orientation 2 (2,0.66,0,0)

This course provides an overview of the construction industry for millwrights, 16-hour safety and green building awareness. Successful students will receive OSHA 10 certification and UBC qualification cards.

MWA 103B Safety and Health Certifications 2 (2,0.66,0,0)

This course covers the safe and appropriate use of forklift and aerial lift equipment in industrial setting, and emergency response procedures. Successful students will receive First Aid and CPR certification and UBC qualification cards.

MWA 105B Millwright General Skills A 1.5 (1.33,1.33,0,0)

Students will identify and use hand and power tools, machining equipment and precision instruments at a fundamental level. Students will complete various bench layout tasks using shop drawings.

MWA 107B Millwright General Skills B 1.5 (1.33,1.33,0,0)

Building on basic machine shop skills, students will use hand and power tools, shop equipment and precision instruments to complete various machining operations.

MWA 109B Cutting and Burning 1.5 (1.33,1.33,0,0)

This course provides safety instruction, equipment operation and basic skills needed for successful layout and fabrication of metal parts using an oxy-acetylene torch.

MWA 111B Welding Fabrication A 1.5 (1.33,1.33,0,0)

This course is designed as an introduction to layout and fabrication. The students will be introduced to the basic skills of measuring, torch set-up and cutting, shaping, grinding, welding, filing, heating and bending of metal parts.

MWA 113B Optics and Machinery Alignment 1.5 (1.33,1.33,0,0)

This course covers the terms, characteristics and operating principles for the transit and laser levels. Procedures for establishing machinery and equipment elevation and alignment will be demonstrated and practiced.

MWA 115B Machinery Shaft Alignment 1.5 (1.33,1.33,0,0)

This course covers the terms, characteristics and methods for aligning machine shafts. Conventional dial indicator and computer aided methods will be included in the training.

MWA 117B Structural Welding - AWS A 1.5 (1.33,1.33,0,0)

This course is designed to prepare the student to obtain an AWS structural welding certificate per AWS D1.1 Structural Welding Code, the welding of plates that are 1/8" to unlimited thickness.

MWA 119B Structural Welding - AWS B 1.5 (1.33,1.33,0,0)

This course is designed to prepare the student to obtain an AWS structural welding certification per AWS D1.1 Structural Welding Code, the welding of plates that are 1/8" to unlimited thickness.

MWA 121B Turbine Familiarization 1.5 (1.33,1.33,0,0)

Students will explore the machines and auxiliary equipment used in the power production industry. This course will highlight the function and performance of a typical gas turbine and will include hydraulic bolting procedures.

MWA 123B Rigging 2 (2,0.66,0,0)

This course presents both lifting theory and practical rigging methods and procedures. Rigging attachment procedures, lifting equipment, limits of operation and communication practices will be covered. Successful students will receive UBC rigging qualification cards. Graded Pass/Fail.

MWA 125B Pumps 1.5 (1.33,1.33,0,0)

This course will cover the identification, application and installation skills for typical systems found in the petrochemical industry. Demonstrations and practice exercises will focus on pump types, gaskets, seals and fans.

MWA 127B Turbine Maintenance 1.5 (1.33,1.33,0,0)

Students will use machinery maintenance skills and techniques for disassembly and assembly of a typical gas turbine. Couplings, bearings and rotors will be inspected, and tolerances verified to complete on site hands-on tasks.

MWA 129B Conveyor Systems 1.5 (1.33,1.33,0,0)

This class will cover proper installation, alignment procedures, belt splicing and explain how improper installation affects the maintenance and lifespan of equipment and conveyor systems.

MWA 131B Drives, Pulleys and Belts 1.5 (1.33,1.33,0,0)

This course will cover the identification, application and installation skills for typical power drive systems. Exercises will focus on the belt, chain and gear drives.

MWA 133B Compressor Theory and Maintenance 1.5 (1.33,1.33,0,0)

This course will cover the compressor operating principles, safety, assembly and maintenance skills for industrial compressors. Exercises will focus on the disassembly, inspection and reassembly of compressor components.

MWA 135B Machinery Installation and Erection A 1.5 (1.33,1.33,0,0)

As an introduction, students will explore the machinery used in the manufacturing and package handling industry. Component descriptions and machine drawings illustrate the complex details and important considerations for assembly and disassembly tasks.

MWA 137B Machinery Installation and Erection B 1.5 (1.33,1.33,0,0)

This course will enhance machinery installation skills used in manufacturing applications. Exercises will focus on the importance of machine drawings to identify component tolerances, installation requirements and alignment of parts.

MWA 139B Print Reading 2 (2,0.66,0,0)

This course introduces basic visualization skills needed for reading and interpreting construction prints. Views, elevations and the role of specifications as they relate to prints will be discussed.

MWA 141B Wind Turbines 1.5 (1.33,1.33,0,0)

This course covers the design, function and installation of wind turbine equipment. The methods, sequences and procedures for housings, bolting, power, drive assembly and other components will be presented.

MWA 143B Solar Installer I 1.5 (1.33,1.33,0,0)

This course covers the design and function of several types of solar installation. The methods, sequences and procedures for mounting layout, elevation/positioning and assembly for solar construction will be presented.

Operating Engineers

OPE 101B Introduction to Apprenticeship/Operation and Maintenance 5 (4,2,0,0)

Tool identification, tool and equipment safety, hand signals for surveyors, grading, standards, surveyors, and crane operators. Basic stake markings and stringline usage. Human relation skills.

OPE 103B Plant Electricity 5 (5,0,0,0)

This course covers all aspects of setup and dismantling of portable cement and gravel plants. Topics include distribution equipment, motor controls, and preventative maintenance. Safety with electrical tools and systems is emphasized.

OPE 105B Machine Tools I 5 (3,4,0,0)

Basic hand tools and machine tools such as drills, files, taps, reamers, micrometers, vernier calipers, engine lathes, milling machines, drill presses, saws and pedestal grinders.

OPE 108B Hydraulics 5 (3,4,0,0)

Theoretical basis for hydraulic and pneumatic circuitry. Circuit components and how they work. Assembly, disassembly and troubleshooting.

OPE 110B Technical Sketching 5 (3,4,0,0)

Sketching of mechanical drawings, industrial pictorials and engineering forms.

OPE 111B Land Surveying 5 (3,4,0,0)

Introduction to rectangular land surveys. Record research and application.

OPE 116B Machinists/Surveyors Math 5 (5,0,0,0)

Basics of geometry and trigonometry. Introduction to modern computational equipment and calculators.

OPE 117B Applied Math for Surveyors 5 (5,0,0,0)

Application of math to field problems and advanced field use of equipment.

OPE 121B Boundary Surveys 5 (3,4,0,0)

Field search and monument recognition on boundary surveys.

OPE 122B Construction Surveys 5 (3,4,0,0)

Applying basics of topographic information to boundary and construction surveys.

OPE 124B Blueprint Reading for Welders/Machinists 5 (3,4,0,0)

Basic knowledge and practice in the reading of blueprints required by welders and machinists.

OPE 131B Introduction to Computer Aided Drafting 5 (3,4,0,0)

Introduction to the basic capabilities of CAD systems emphasizing AUTOCAD software.

OPE 153B Grade Checking I 5 (4,2,0,0)

Safety procedures, tool identification, measurements, grading signals and layouts. Information interpretation. Formulas to use with percentages and slope ratios. Standard observations and symbols.

OPE 155B Plan Reading/Grade Checking II 5 (3,4,0,0)

This course is a continuation of OPE 153B. Students will enhance their knowledge of reading and understanding blueprints, codes and calculations.

OPE 157B Specialized Equipment 5 (3,4,0,0)

This course is a continuation of OPE 155B. Students will enhance their skill level on the operation of various pieces of equipment used by the Operating Engineer.

OPE 159B Cranes 5 (3,4,0,0)

Components and terminology. Signaling, communication, mobile crane operation/setup, load charts, rigging/wire ropes and load movement indicators. Safety and accidents.

OPE 173B Drilling I 5 (3,4,0,0)

This course will introduce students to the proper operation of a drill rig in the field.

OPE 175B Drilling II 5 (3,4,0,0)

This course is a continuation of OPE 173B. Students will build on their knowledge of math calculations and well control.

OPE 177B Drilling III 5 (3,4,0,0)

Operations used in special drilling situations. Directional drilling, fishing, well control and optimization. Algebra calculations used for appropriate rig, procedures.

OPE 201B Hazardous Materials Handling Awareness 5 (3,4,0,0)

Hazard recognition, identification, health effects, decontamination, protective equipment, material handling, storage and sampling techniques.

OPE 202B Soils Inspection and Testing 5 (4,2,0,0)

This course covers all principles, procedures, and methods of soil testing. Topics include tool use, soil classification, and calibration of test equipment. Equipment calibration and daily inspection reports are also covered in detail.

OPE 204B Reinforced Concrete Inspector 5 (3,4,0,0)

This course covers all principles, procedures, and methods of reinforced concrete inspection. Topics include daily reports, concrete sampling, concrete placement and safety requirements. In-depth study on reading and interpreting structural plans is also covered.

OPE 206B Pre-Stressed Concrete Inspector 5 (5,0,0,0)

This course covers all principles, procedures and methods of pre-stressed concrete inspection. Topics include cable placement, post tensioned tendons, preparing stressing sheets, and daily reports. In-depth study on reading and interpreting structural plans is also covered.

OPE 208B Structural Masonry Inspector 5 (4,2,0,0)

This course covers all principles, procedures, and methods of structural masonry inspection. Topics include daily reports, reinforcing steel installation, grouting techniques, and safety requirements. In-depth study on reading and interpreting structural plans is also covered.

OPE 209B General Construction Inspector 5 (5,0,0,0)

This course will introduce future inspectors to the materials involved in general construction. Upon successful completion of course, the student will receive certification.

OPE 210B Diesel and High Compression Engines 5 (3,4,0,0)

Engine operations, diagnostics and tune-up. Use of testing equipment and special tools. Specific performance testing procedures. Proper use of an engine dynamometer.

OPE 211B Spray Applied Fire Proofing Inspector 5 (5,0,0,0)

This course will introduce future inspectors to the materials involved in spray applied fire proofing. Upon successful completion of course, the student will receive certification.

OPE 212B Welding 5 (3,4,0,0)

Shielded Metal Arc Welding (SMAW) and cutting of mild steel. Welding in flat, horizontal and vertical positions.

OPE 213B Structural Steel and Bolting Inspector 5 (4,2,0,0)

This course covers all principles, procedures, and methods of structural steel and bolting inspection. Topics include daily reports, bolting techniques, tensile strength, and bolt identification. In-depth study on bolting specifications is also covered.

OPE 214B Heavy Equipment Repair 5 (3,4,0,0)

Diesel injection trouble shooting and repair. Preventive maintenance of diesel power units. Servicing of transmissions and power trains. Starting and charging electrical system.

OPE 215B Machinist - Surfcam 5 (5,0,0,0)

This course will introduce the student to computerized numeric control (CNC) program fundamentals. The student must pass final exam to receive a certificate. Graded Pass/Fail.

OPE 216B Asbestos Training 2 (2,0,0,0)

This course will provide the student with a thorough knowledge of asbestos, the regulations concerning asbestos removal and the proper use of equipment and safety techniques. Satisfies AHERA and OSHA class IV. Student must pass final exam to receive certificate. Graded Pass/Fail. Prerequisites: OPE 101B, 201B.

OPE 217B GPS Rover/CPS Equipment 5 (3,4,0,0)

In this course, the student will be instructed on the proper set up of a GPS system on equipment as well as a rover. Students must pass the final exam in order to receive a certificate. Graded Pass/Fail. Prerequisites: OPE 101B, 153B.

OPE 218B Radiological Worker II 2 (2,0,0,0)

This course satisfies the requirements of 10 CFR 835 Part J radiation training. Students must pass final exam in order to receive a certificate. Graded Pass/Fail. Prerequisites: OPE 101B, 201B.

OPE 219B Residential Inspector 5 (5,0,0,0)

This course covers the proper method of home inspection. Students must pass final exam to receive a certificate. Graded Pass/Fail. Prerequisites: OPE 101B.

OPE 220B Introduction to Survey Systems/ Residential and Applications 5 (5,0,0,0)

This course will provide an overview of how to read grading plans, building plans and underground utilities. Students must pass the final exam in order to receive a certificate. Graded Pass/Fail. Prerequisite: OPE 101B.

OPE 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Operating Engineers trade. Graded Pass/Fail.

OPE 260B Machinists Handbook 5 (3,4,0,0)

Mathematics, mechanics, strength and testing of materials. Properties, treatment, dimensioning, gauging and measuring. Tooling, machining operations, manufacturing processes, fasteners, threading, gears, bearings, splines and cams.

OPE 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Operating Engineers trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

OPE 283B Personnel Supervision 5 (5,0,0,0)

Understanding the duties and responsibilities of personnel in a supervisory position. Human relations is emphasized along with employee needs, training employees and economics of supervision.

Operating and Maintenance Engineers

OPME 102B Fundamentals of Electricity 3 (2,2,0,0)

Fundamentals of constructing electrical circuits, measuring their predictable parameters, using measuring instruments and material needed to maintain and repair electrical systems.

OPME 103B Introduction to the National Electrical Code 3 (3,0,0,0)

Based on the National Electrical Code (National Fire Protection Association) will provide an overview of the code book article format.

OPME 104B Introduction to the Uniform Plumbing Code 3 (3,0,0,0)

Uses the Uniform Plumbing Code (International Conference of Building Officials) for an overview of the principles of plumbing.

OPME 105B Domestic Refrigeration 2 (1,2,0,0)

The course covers sealed system components, defrost and electrical controls, mechanical servicing of domestic refrigerators, troubleshooting, ice makers, window air conditioners and window air conditioning repair.

OPME 106B Mechanical Power Transmission (Instrumentation) 3 (2,2,0,0)

Covers principles of transfer and use, hardware and maintenance of mechanical power. Shaft alignment, belt tension and alignment for optimal efficiency and energy use are discussed and practiced.

OPME 107B Low Pressure Steam 3 (2,2,0,0)

This course explains the fundamentals of low pressure boilers and heat exchangers, hardware, safeties, water treatment and procedures required to maintain and repair such equipment.

OPME 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation) 3 (2,2,0,0)

This course covers principles of generation, transfer and use, hardware and maintenance of fluid power. Pump seals, packings, energy and efficiency, proper use of instrumentation and safeties will also be discussed and practiced.

OPME 109B High Pressure Steam 3 (2,2,0,0)

This course explains the fundamentals of high pressure boilers, hardware, safeties, water treatment and procedures required to maintain and repair such equipment.

OPME 110B Electrical Heating and Cooling 4 (2,4,0,0)

This course will teach single phase electric motor theory, advanced electrical circuit drawing, wiring of air conditioning units with strip heat using time delays, sequences, two speed fans, lockout systems and unit changing methods. Also included will be remote mounted thermostats.

OPME 111B Computer Basics for OPME 3 (3,0,0,0)

Computer terminology, components which make up the system (hardware) and the programs which operate the computers (software) are covered.

OPME 112B Backflow Prevention Certification 4 (3,3,0,0)

Covers the most recent prevention technology in preparation for AWWA Backflow Certification. Attendance in a minimum of forty hours of the total class hours is required to qualify for testing.

OPME 113B F-License 3 (3,0,0,0)

A code based class providing the information to understand installation, operation, maintenance and troubleshooting of fire systems. Terminology, basic fire systems operations and the requirements of the State of Nevada testing and inspection competency exam is covered.

OPME 114B Automated Manufacturing Control 3 (2,2,0,0)

Encompasses the requisition, ordering, expediting and stock control of materials. Principles of computer and sensor operated manufacturing are presented.

OPME 116B Carpet Maintenance 1 (1,0,0,0)

This course will cover the methods, materials and techniques used for carpet repair by the Maintenance Engineer. The student will be given the opportunity to practice and demonstrate such methods.

OPME 117B Tile Repair and Maintenance 1 (1,0,0,0)

This course will cover the methods, materials and techniques used for the repair of tile and grout by the Maintenance Engineer. The student will be given the opportunity to practice and demonstrate such methods.

OPME 120B Electronics Theory DC and AC 3 (3,1,0,0)

Basic concepts of passive electronic circuits, including laws, measurements, calculations and electrical energy sources relating to direct and alternating current. Components and general purpose test equipment used in practical experimentation.

OPME 122B Introduction to Oxy-Acetylene Welding 3 (1,5,0,0)

Basic lab and oxy-acetylene welding safety, preparation, symbols and oxy-acetylene and braze welding in the flat (downhand), vertical and horizontal positions.

OPME 123B Blueprint Reading for the Building Trades 3 (1,4,0,0)

Stress is given to the reading and interpretation of representative construction blueprints.

OPME 130B Kitchen Equipment Repair 3 (3,0,0,0)

Operation of over twenty-five pieces of both electrical and gas kitchen equipment and new products are covered. Safety will be emphasized.

OPME 133B Air Conditioning Theory 6 (6,0,0,0)

Basic fundamentals of refrigeration cycle which includes compressors, condensers, receivers, evaporators, metering devices, basic cycle controls, accessories, refrigerants and piping of air conditioning systems.

OPME 138B Conduit Bending 1 (1,1,0,0)

Mathematical constants for bending three grades of pipe using formulas and Bendfield methods are covered. Electric metallic tube, intermediate grade and rigid schedule forty are utilized on one half inch through two inches pipe.

OPME 139B Hydraulic Conduit Bending 1 (1,1,0,0)

A continuation of OPME 138B, bending pipe from one and three quarter through six inches. Using different formulas for different sized pipe bends that are mastered include fifteen, thirty, forty-five, and ninety degrees offset as well as three bend saddle. Hydraulic benders used are Greenlee and Interpak.

OPME 143B NEC Code Update 1 (1,0,0,0)

Covers OSHA Electrical Safety and the recent changes in the National Electrical Code (NEC) preparing workers for renewal of their journeyman card.

OPME 144B Industrial Electricity 3 (2,2,0,0)

Emphasis placed on troubleshooting, fabrication, maintaining and repairing electrical systems encountered in industry.

OPME 149B Maintenance Plumbing 3 (3,0,0,0)

This course will cover various operations of plumbing maintenance, from fixture repair and replacement, to proper operation of a plumbing auger (snake).

OPME 150B Plumbing Principles and Methods 3 (2,3,0,0)

Fabrication and erection of piping, layout methods, process piping, blueprint installations as well as testing of plumbing fixtures and appliances.

OPME 152B Chief Engineer 3 (3,0,0,0)

This course provides the aspiring Maintenance Engineer, prospective Chief Engineer, or current Chief Engineer, the necessary administrative and personnel skills to handle the daily operational and leadership challenges associated with the position and title of a Chief Engineer. Topics discussed will include budget preparation, planning, time management, scheduling and record keeping.

OPME 153B Introduction to Direct Digital Controls 3 (3,0,0,0)

This course will cover the installation, maintenance and communications for direct digital control devices (DDC).

OPME 154B Introduction to CFC/EPA Section 608 1 (1,0,0,0)

This course will introduce the student to the laws, standards and procedures associated with the handling and recycling of refrigerant. This course will help the student prepare to take the EPA Clean Air Act, section 608 certification test. Prerequisite: OPME 105B.

OPME 155B Hazardous Waste Operations and Emergency Response (Hazwoper) 3 (3,0,0,0)

This course will cover the standard (29 CFR 1910.120) and the safety requirements employers and public sector responders must meet in order to conduct clean-ups or emergency response operations.

OPME 156B Certified Pool Operator (CPO) 1 (1,0,0,0)

This course will cover various operations of the pool operator. Clark County Health District (CCHD) regulations for the certified pool operator will also be covered. This course will help the student prepare to take the CCHD pool operator's exam.

OPME 157B Cable Terminations 1 (1,0,0,0)

This course will cover methods and techniques to terminate CAT-6, coaxial and fiber optic cables. Cable handling and interference will also be discussed. The student will be given the opportunity to practice and demonstrate such methods.

OPME 202B Ice Machines 3 (3,0,0,0)

Basic ice machine technology, sequential operation and troubleshooting are covered. Emphasis is on Vogt, Hoshizaki, Ice-O-Matic, Scotsman, Maitowac and Cornelius ice machines. Prerequisites: OPME 105B, 110B, 133B.

OPME 211B HVAC Control Systems 6 (6,0,0,0)

Technology updates on HVAC systems, control principles, pneumatics, electrical and electronic controls are emphasized. Building automation, direct digital controls and troubleshooting updates are also covered.

OPME 212 Welding I 3 (1,5,0,0)

Shielded Metal Arc Welding (SMAW) and cutting of mild steel, teaches students some skill in welding flat, horizontal and vertical positions.

OPME 214B Advanced Fabrication MIG and TIG Welding 6 (4,4,0,0)

Advanced design, layout and assembly techniques are covered. Advanced MIG and TIG will be presented in depth.

OPME 216B 6G Welding Certification Preparation 6 (4,4,0,0)

This course will cover the methods and techniques required to pass a 6G pipe welding certification, in addition: several other positions for structural and pipe welds will be discussed. This course will help the student prepare to take the AWS 6G pipe welding certification. The certification test will be available at the completion of the course. Prerequisite: OPME 212.

OPME 217B Welding III 3 (1,5,0,0)

Further student's skill into G.M.A.W. (M.I.G.) on carbon steel and G.T.A.W. (T.I.G.) on aluminum and carbon steel.

OPME 228B OSHA Safety 3 (3,0,0,0)

Fall protection and confined space is covered. Recognizing work environment hazards and how to mitigate them is emphasized. A ten hour General Industry certification and a ten hour Construction OSHA certification are provided upon completion. Graded Pass/Fail.

OPME 229B OSHA 10/10 1 (1,0,0,0)

This course will cover OSHA safety standards and code compliance for General Industry (29 CFR part 1910) and Construction (29 CFR part 1926). Upon completion, the student will receive an OSHA 10 hour General Industry card and an OSHA 10 hour Construction card. Graded Pass/Fail.

OPME 243B Water Treatment Plant Operation 1 (1,1,0,0)

Basic knowledge for the safe operation of drinking water treatment plants. Topics include water resources, reservoir management, coagulation and flocculation, sedimentation, filtration, disinfection, corrosion control and taste and odor control.

OPME 244B Water Distribution I 3 (3,0,0,0)

Basic knowledge for the safe operation and maintenance of water distribution systems. Topics include storage facilities, distribution facilities, water quality considerations, disinfection and safety.

OPME 253B Indoor Air Quality 6 (6,0,0,0)

Organizing and operating a preventive maintenance program. Terminology, regulations and design problems. Chemical storage and handling. IAQ contaminants, related illness, air water sampling.

OPME 254B Air Balancing 6 (6,0,0,0)

Detailed information on fan laws, pump performance, piping practices, air handlers, dampers, airflow control devices, registers and grills.

OPME 291B Locksmithing 6 (6,0,0,0)

Key cutting, master keying and key types are introduced. Types of locking systems, access control systems, closure and panic hardware are covered.

OPME 292B Locksmithing II 6 (6,0,0,0)

Establishment and operation of a hotel lock shop is presented. Updated technical information including safe entry and electronic locks are covered. Prerequisite: OPME 291B.

Pile Drivers

PDA 101B Orientation 2 (2,0.66,0,0)

This course provides an overview of the construction industry for pile drivers, safety and green building awareness. Successful students will receive OSHA 10 certification and UBC qualification cards.

PDA 103B Safety and Health Certifications 2 (2,0.66,0,0)

This course covers the safe and appropriate use of scaffolds, rough terrain lift truck equipment and emergency response procedures. Successful students will receive First Aid and CPR certification and UBC qualification cards.

PDA 105B Piles and Hammers A 1.5 (1.33,1.33,0,0)

This course provides an overview of the types of piles used in construction as load bearing support for commercial buildings, bridges and piers. The methods, techniques and pile hammers utilized in the installation process will be presented.

PDA 107B Piles and Hammers B 1.5 (1.33,1.33,0,0)

This course covers the safe operating techniques and utilization of pile hammers in the installation process. Students will use the proper procedures to install two wood sheet pile systems.

PDA 109B Pile Caps and Columns A 1.5 (1.33,1.33,0,0)

This course describes the purpose and function of pile caps and columns in the bridge anatomy. Structural and loading considerations and layout will be presented. Related safety, math and print reading will also be covered.

PDA 111B Pile Caps and Columns B 1.5 (1.33,1.33,0,0)

This course covers the sequence and installation procedures for selected types of pile caps and columns. The safe use of tools and equipment will be emphasized.

PDA 113B Falsework A 1.5 (1.33,1.33,0,0)

This course presents the basic layout and job planning needed to install a typical structure support system for concrete formwork. Related safety, math and print reading will also be covered.

PDA 115B Falsework B 1.5 (1.33,1.33,0,0)

This course presents the installation sequence and procedures used to install falsework support for concrete forms. The safe use of tools and equipment will be emphasized.

PDA 117B Abutments A 1.5 (1.33,1.33,0,0)

This course provides instruction in the detailing, layout and construction preparation for abutments used in the heavy highway industry.

PDA 119B Abutments B 1.5 (1.33,1.33,0,0)

This course provides instruction in the component assembly and construction for abutments used in the heavy highway industry.

PDA 121B Bridge Deck Forms A 1.5 (1.33,1.33,0,0)

This course provides students with an overview of basic bridge and deck construction layout and job planning. Related safety, math and print reading will be covered in the training.

PDA 123B Bridge Deck Forms B 1.5 (1.33,1.33,0,0)

This course provides students with basic bridge and deck construction sequence and procedures. Formwork project will include panel construction, assembly and hardware installation tasks.

Plasterers

PLA 111B Plasterers Apprentice I 4 (3,2,0,0)

Identify and demonstrate usage of various hand tools for mixing and applying 3-coat Portland cement to vertical walls. OSHA 10 is presented along with safety procedures while operating on scaffolds, scissor, and/or boom lifts.

PLA 112B Plasterers Apprentice IB 3 (2,2,0,0)

Identify and demonstrate treatment methods in repairing plaster surface defects. First Aid/CPR are demonstrated and practiced. Sexual Harassment I Prevention and Respirator Fit are presented.

PLA 141B Plasterers Apprentice II 3 (2,2,0,0)

Mixing and applying 3-coat gypsum plaster are demonstrated and practiced. Identification and application of various fireproofing materials are demonstrated and practiced.

PLA 142B Plasterers Apprentice IIB 4 (3,2,0,0)

Fundamental math, estimating, measuring, and blueprint reading are presented and practiced. Proficiency in First Aid/CPR is repeated. Sexual Harassment Prevention II is presented. Application of Level 5 finish is demonstrated.

PLA 201B Plasterers Apprentice III 3 (2,2,0,0)

Construction of boulders and rocks used in theme settings is demonstrated and practiced. Application of Venetian plaster finish is demonstrated and practiced.

PLA 202B Plasterers Apprentice IIIB 4 (2,4,0,0)

Application of specialty plaster finishes are demonstrated and practiced. Safe operation of rough terrain forklift is demonstrated and practiced. Complete Green Awareness for Construction Workers certification requirements.

PLA 251B Plasterers Apprentice IV 3 (2,2,0,0)

Identify components and demonstrate processes used to construct Exterior Insulation and Finishing Systems (EIFS). Demonstrate thorough knowledge of ornamental plaster procedures with various molds and cornices.

PLA 252B Plasterers Apprentice IVB 4 (3,2,0,0)

OSHA 30 is presented along with safety procedures while working on scaffolds, scissor, and/or boom lifts. Continue knowledge-based application of Exterior Insulation and Finishing Systems (EIFS). Certify as an AWCI-EIFS Mechanic.

Plasterers and Cement Masons

PLCM 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Plasterer and Cement Masons trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

PLCM 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Plasterers and Cement Masons trade. Graded Pass/Fail.

PLCM 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Plasterers and Cement Masons trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

Plumbers/Pipefitters

PPF 101B First Year Plumbers and Pipefitters Apprentice I 4 (4,0,0,0)

Job safety, use and care of tools, recognition of pipe and fittings, trade related math and science, rigging, drawing and blueprint reading, soldering, and brazing.

PPF 102B First Year Plumbers and Pipefitters Apprentice II 4 (4,0,0,0)

Continuation of PPF 101B.

PPF 116B Technical Math for Piping Trades 2 (2,0,0,0)

Measure pipe, fittings, and “take offs” enabling the use of the appropriate formulas for piping measurements. Graded Pass/Fail.

PPF 118B Uniform Plumbing Code Review 5 (5,0,0,0)

This course will review the 2009 Uniform Plumbing Code (UPC) and prepares the student to take the SNBOPE Plumbing Code Test. Strong math skills are needed for this course. Graded Pass/Fail.

PPF 119B Piping Math 2 (2,0,0,0)

This course will provide a review of the basic math formulas and calculations used in the field by Journeymen. This class is recommended for those that wish to take the Pipefitter exam. Graded Pass/Fail.

PPF 120B Blueprint Reading and Isometric Drawing 2 (2,0,0,0)

This course will review basic construction blueprint reading and provide an introduction to isometric drawing. Students will convert the piping systems from blueprints to isometric drawings.

PPF 121B Steam Systems 2 (2,0,0,0)

This course is designed to guide the student through the United Association Steam Systems textbook. Graded Pass/Fail.

PPF 122B Basic Electricity 1 (1,0,0,0)

This course is designed to guide the student through the United Association Basic Electricity Systems textbook. Graded Pass/Fail.

PPF 123B CFC Handling 1 (1,0,0,0)

This course will provide instruction in the safe handling of refrigerants and system testing. Pass/Fail.

PPF 124B Valve Repair Program 2 (2,0,0,0)

This course will cover the practices and techniques of valve repair, the safe handling of valves and repair or replacement of valves used in the piping industry. Graded Pass/Fail.

PPF 129B Pipe Layout 2 (1,1.5,0,0)

This course provides an introduction to pipe layout and the safe and proper use of an Oxygen/Acetylene cutting torch. Students must come dressed in work clothes and safety boots.

PPF 133B Basic Rigging 1 (1,0,0,0)

This course covers the proper rigging techniques and materials used for the piping industry. Graded Pass/Fail.

PPF 134B EPRI Industrial Rigging 3 (3,0,0,0)

This course will provide necessary information needed to assist in taking the EPRI Industrial Rigging examination. Certification exam given at the end of the course. Graded Pass/Fail.

PPF 137B Backflow Assembly Tester Certification 1.5 (1,1.5,0,0)

This course reviews backflow assembly systems and proper testing procedures. Students will take the certification exam at the end of this course. Graded Pass/Fail.

PPF 139B NCCCO Crane Signaling Certification 1.5 (1,1,0,0)

This course will cover the safe and proper signaling methods as approved by the National Commission for the Certification of Crane Operators (NCCCO) and as required by OSHA. Certification exam given at the end of the course. Graded Pass/Fail.

PPF 140B Green Awareness Certification 1.5 (1.5,0,0,0)

This course will introduce the students to the Green Technology movement in construction. Students will participate in an examination for certification at the end of the course. Graded Pass/Fail.

PPF 151B Second Year Plumbers and Pipefitters Apprentice I 4 (4,0,0,0)

Water supply, draining, plumbing fixtures and appliances, gas installations, drawing interpretation and plan reading, and use of the uniform plumbing code illustrated manual.

PPF 152B Second Year Plumbers and Pipefitters Apprentice II 4 (4,0,0,0)

Continuation of PPF 151B.

PPF 154B Weld Certification Preparation 1 (0,2,0,0)

Preparation and welding of steel pipe to pass the UA welding exam rigorous standards to gain UA certification.

PPF 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Plumber and Pipefitters trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

PPF 201B Third Year Plumbers and Pipefitters Apprentice I 4 (1,6,0,0)

Welding theory, basic metallurgy, safety, proper procedures, oxy-acetylene cutting, shielded metal arc welding (structural and pipe) including pipe preparation and pipe fit-up.

PPF 202B Third Year Plumbers and Pipefitters Apprentice II 4 (1,6,0,0)

Fabrications of piping intersections and offsets. Making of templates and their use, trade mathematics, laying out angles, offsets, and appropriate fittings.

PPF 203B Medical Gas Certification Preparation 2 (2,0,0,0)

Recognize components, layouts, brazed gas pipe and understand the National Fire Code Section 99C to pass the Medical Gas Installer/Brazer Certification test. Graded Pass/Fail.

PPF 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Plumber and Pipefitters trade. Graded Pass/Fail.

PPF 251B Fourth Year Plumbers and Pipefitters Apprentice I 4 (4,0,0,0)

Principles of refrigeration and refrigerants, evaporators, compressors, condensers, various valves and fittings, and refrigerant piping. Installation of refrigeration equipment, refrigerant piping, various valves and fittings.

PPF 252B Fourth Year Plumbers and Pipefitters Apprentice II 4 (4,0,0,0)

Continuation of PPF 251B.

PPF 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Plumber and Pipefitters trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

PPF 291B Fifth Year Plumbers and Pipefitters Apprentice I 4 (4,0,0,0)

Advanced plumbing I, solvent system, independent study in any of the following areas; advanced plumbing, advanced layout, welding I, or refrigeration.

PPF 292B Fifth Year Plumbers and Pipefitters Apprentice II 4 (2,4,0,0)

Continuation of PPF 291B.

Painters

PTD 101B Painting/Decorating Apprentice I 4 (4,0,0,0)

History of painting, terms, math and human relations. Tools and equipment identification. Preparation and repair of surfaces. Color mixing/matching and lighting effects.

PTD 102B Painting/Decorating Apprentice IB 4 (3,2,0,0)

Application procedures. Understanding pigments. Paint failure remedies. Finishing problems and schedules. Wood and wood products as well as other material ratings. Ladders, scaffolding and rigging.

PTD 105B OSHA/First Aid/CPR 1 (1,0,0,0)

Painting Safety and Health Outreach program. Standards pertaining to 29 CFR 1926 construction standards. Techniques of administering first aid and cardiopulmonary resuscitation. Graded Pass/Fail.

PTD 151B Painting/Decorating Apprentice II 4 (4,0,0,0)

History of drywall finishing. Taping, texturing and finishing. Spray painting and equipment. Air, airless and specialized spray systems. Coatings, industry inspection and testing.

PTD 152B Painting/Decorating Apprentice IIB 4 (3,2,0,0)

Abrasive blasting and equipment. Water blasting and equipment. Exposed aggregate finishes. Techniques and procedures for glazing, antiquing, wood graining, marbleizing, stippling, texturing, gilding and stenciling.

PTD 155B Respirators/Lead Abatement 1 (1,0,0,0)

Acceptable safe respirators and proper procedures to ensure maximum protection. Safe removal procedures for various materials containing lead. Health effects.

PTD 201B Painting/Decorating Apprentice III 4 (4,0,0,0)

History of wallpapering. Surface preparation and tools/equipment used. Adhesive applications. Standards, ethics, and goals of the painting industry.

PTD 202B Painting/Decorating Apprentice IIIB 4 (3,2,0,0)

Blueprint reading. Understanding lines, symbols, scales and dimensions used on blueprints. Understanding how to read architectural and engineering drawings.

PTD 205B Heavy Equipment Operation 1 (1,0,0,0)

This course covers the safe use of equipment that transports humans and materials up, down and across the side of buildings, such as, scissor lift, man lift, etc.

PTD 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Painters trade. Graded Pass/Fail.

PTD 255B COMET 1 (1,0,0,0)

History and organization of painters in the labor movement. Public relations tactics used by the painters union leaders.

PTD 260B Confined Space 1 (1,0,0,0)

The objective of this course is to develop the respect necessary for the potential hazards in permit and non-permit confined spaces. This course will instruct workers on comprehension and use of the safe entry procedures into confined space environments.

PTD 267B Spray Painting for Painters 2 (1,2,0,0)

This course introduces the operation and maintenance of spray machines used by the professional painter. Topics covered include the safety of workers and the public on the job site during spray applications as well as the different types of spray equipment used.

PTD 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Painters trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

PTD 271B Wall Covering I 2 (2,0,0,0)

This course will introduce the student to wall covering tools, terminology, planning and preparation. Topics discussed include the economics of wall covering materials and the development of good work habits for the wall covering professional.

PTD 272B Wall Covering II 2 (1,2,0,0)

This course is a continuation of PTD 271B. Topics covered include the introduction of new and exotic materials, such as papers, fabrics, foils, cork and carpet. The techniques for application of various products using the proper adhesives and paste will also be discussed.

PTD 273B Wall Covering III 2 (1,2,0,0)

This course is a continuation of PTD 272B. The course will reinforce all aspects concerning the proper preparation of old surfaces. Discussion will include how to rectify various problems encountered on the job site.

Roofer and Waterproofer

RFR 101B Roofers Apprentice I 4 (3,2,0,0)

The socioeconomic history of the Roofing trade and employability skills are the primary topics. Additional topics include OSHA safety regulations and introduction to various roofing methods, tools, and materials.

RFR 102B Roofers Apprentice I s 4 (2.5,3,0,0)

This course covers all aspects of built-up roofing. Additional topics include personal protective equipment, ladder safety, trade related mathematics, and blueprint reading.

RFR 151B Roofers Apprentice II 4 (2.5,3,0,0)

This course covers all aspects of single ply roofing, including tools, materials, and installation methods. Additional topics include maintenance/repair of existing roofs, and various waterproofing methods.

RFR 152B Roofers Apprentice II s 4 (2.5,3,0,0)

This course covers all aspects of steep slope roofing including the OSHA safety requirements regarding tools, equipment and hoisting. Also covered are various types of shingles and photovoltaic shingle installation.

RFR 201B Roofers Apprentice III 4 (2,4,0,0)

This course covers advanced roofing methods including damp proofing, surface preparation, and spray systems. Additional topics include membrane systems, chopped glass, rubberized asphalt and spray foam applications.

RFR 202B Roofers Apprentice III s 4 (2.5,3,0,0)

This course covers the advanced mathematics required in the roofing industry. Additional topics include supervisor training, advanced blueprint reading, and overall job site organization.

RFR 211B Safety 4 (3,2,0,0)

Industry statistics on accident frequency rates are studied. Understanding basic causes of accidents in the workplace are emphasized. Safe practices for each type of work is reviewed extensively. Graded Pass/Fail.

RFR 212B CPR, First Aid, and OSHA 10 4 (3,2,0,0)

This course covers First Aid/CPR and OSHA 10 regulations as applied to the roofing trade. Covered topics include work related injury prevention, health/safety on the job, and basic safety requirements. Graded Pass/Fail.

RFR 270B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Roofers and Waterproofers Trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

Scaffold Erector

SEA 101B Orientation 2 (2,0.66,0,0)

This course provides an overview of the construction industry, safety and green building awareness. Successful students will receive OSHA 10 certification and UBC qualification cards.

SEA 103B Safety and Health Certifications 2 (2,0.66,0,0)

This course covers the safe and appropriate use of scaffolds, aerial lift equipment and emergency response procedures. Successful students will receive First Aid and CPR certification and UBC qualification cards.

SEA 105B Basic Frame Scaffold 1.5 (1.33,1.33,0,0)

This course will cover the basic techniques and erection procedures associated with frame scaffold components. The terminology, components and installation sequence will be presented.

SEA 107B Print Reading 2 (2,0.66,0,0)

This course introduces basic visualization skills needed for reading and interpreting construction prints. Views, elevations and the role of specifications as they relate to prints will be discussed.

SEA 109B Basic System Scaffold 1.5 (1.33,1.33,0,0)

This course will cover the basic techniques and erection procedures associated with system scaffold components. Construction practices and safety considerations will be a major focus of the class.

SEA 111B Basic Suspended Scaffold 1.5 (1.33,1.33,0,0)

This course will cover the basic techniques and procedures associated with suspended scaffolds. The terminology and use of scaffold components in a cable suspended configuration will be the focus of this training.

SEA 113B Basic Tube and Clamp Scaffold 1.5 (1.33,1.33,0,0)

This course will cover the basic techniques and procedures associated with tube and clamp scaffold components and erecting methods. Students will identify custom configurations utilizing this type of scaffolding.

SEA 115B Intermediate Frame Scaffold 1.5 (1.33,1.33,0,0)

This course will enhance the student's basic frame scaffold erecting ability by incorporating variations of standard construction techniques and procedures to accommodate structural, equipment or overhead restrictions.

SEA 117B Intermediate System Scaffold 1.5 (1.33,1.33,0,0)

This course presents the techniques and procedures to build cantilevered platforms that extend beyond a typical scaffold base arrangement using system scaffold components.

**SEA 119B Advanced
Frame Scaffold 1.5 (1.33,1.33,0,0)**

This course will cover the advanced techniques and procedures associated with ground supported frame scaffold. The use of scaffold components for construction of various heavy-duty (industrial) elevated platforms will be the focus of this training.

**SEA 121B Advanced
System Scaffold 1.5 (1.33,1.33,0,0)**

This course will cover the advanced techniques and procedures required when constructing system scaffolds used in industrial boiler installation or repair applications. Students will identify surface obstacles and unique shapes indicative of this application.

**SEA 123B Advanced
Suspended Scaffold 1.5 (1.33,1.33,0,0)**

This course will cover the advanced techniques and procedures required when constructing suspended scaffolds supported by structural members. Students will identify the suitable structural components for this application type.

SEA 125B Scaffold Re-Shoring 2 (2,0.66,0,0)

This course will present students with the principles and techniques for the use of shoring equipment in a re-shore application. The importance of uniform loading and alignment of multi-tower/tandem tower configurations will be explained.

**SEA 127B Scaffold in
Confined Spaces 1.5 (1.33,1.33,0,0)**

This course covers both CAL-OSHA and Federal OSHA regulation for safe access, entry and monitoring for confined space work. Successful students will receive UBC qualification cards.

**SEA 129B Specialty
Scaffold Applications 2 (2,0.66,0,0)**

This course will include specialty scaffold applications focusing on ramps, chutes and mobile towers suitable for light and heavy duty use.

SEA 131B Advanced Print Reading 2 (2,0.66,0,0)

In this course, students will analyze multi-view drawings to determine construction type, locate benchmark, find building element and review codes, references and perform calculations for construction purposes.

Sheet Metal Worker

SMTL 111B First Aid/CPR I 0.5 (0.66,0,0,0)

Covers First Aid procedures for infants and adults, and the latest procedure of CPR. Certification will be issued upon completion. Graded Pass/Fail.

**SMTL 112B Job Site Safety
and Certification 1 (1,0,0,0)**

Covers safe work practices for shop and field along with forklift safety, welding safety, power actuated tools and aerial safety. Certifications are issued upon completion.

SMTL 113B Sheet Metal Drafting 4 (4,0,0,0)

Covers the use of drafting tools, lines, lettering, orthographic projections, layout, pictorial drawings, sketches, as well as pictorial, isometric, oblique, freehand and shop drawings.

SMTL 114B Layout/Fabrication I 4 (4,0,0,0)

Covers the use of hand tools, layout construction, layout on metal basics, parallel line layout, radial line layout, triangulation and basic shop equipment.

SMTL 115B Sheet Metal Apprentice I 3 (3,0,0,0)

Covers the trade history, responsibilities, people skills, service, shop equipment, seams, locks and edges. Will become familiar with trade related math including the areas of geometry, trigonometry and layout.

SMTL 121B OSHA 10 1 (1,0,0,0)

Upon completion of this safety class, students will receive an OSHA 10 certificate. Graded Pass/Fail.

**SMTL 122B Sheet Metal Plans
and Specifications 4 (4,0,0,0)**

Covers cut sheets, rfi's, man hours, equipment, rough BID, elevations, penetrations, clearance, equipment size, submittals, moisture controls and specifications.

SMTL 123B Layout/Fabrication II 4 (4,0,0,0)

Covers advanced parallel line development and advanced triangular development.

SMTL 124B Sheet Metal Apprentice II 4 (3,2,0,0)

Covers trade materials, properties of metals, alternative materials, hardware of the craft, shop procedures, field installation, introduction to refrigeration and more trigonometry.

SMTL 221B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Sheet Metal Workers trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

SMTL 230B First Aid/CPR II 0.5 (0.66,0,0,0)

Covers items for recertification of basic First Aid and CPR. Certification will be issued upon completion of the class. Graded Pass/Fail.

SMTL 232B Shop Drawings/Takeoff 2 (1,2,0,0)

Covers Sheet Metal and Air Conditioning Contractors National Association (SMACNA) standards, local codes, shop drawings, cut sheets, along with architectural, structural, mechanical and electrical drawings.

SMTL 233B Introduction to Welding 2 (1,2,0,0)

Covers safety in metallurgy, oxyfuel, plasma cutting, electrical power fundamentals, and gas metal arc welding (GMAW).

SMTL 234B Architectural Sheet Metal I 4 (4,0,0,0)

Covers Architectural Sheet Metal materials, moisture control, expansion and contraction. Material handling, wall systems, project management and special Architectural Sheet Metal are also covered.

SMTL 236B Architectural Sheet Metal II 4 (4,0,0,0)

Covers flashing, seams, locks, edges, fastening, joining, measurements, field installation, shop layout and fabrication. Wall systems, supports, substrates, roofing drainage systems, louvers and ventilators will also be covered.

SMTL 240B CAD/Detailing I 4 (4,0,0,0)

Covers basic CAD commands, introduction to CAD, and two dimensional drawings.

SMTL 241B CAD/Detailing II 4 (4,0,0,0)

Covers introduction to 3D drawing, enabling the creating, drawing and printing of a basic duct system (required).

SMTL 242B TAB I 4 (4,0,0,0)

Covers air pressure, measuring rotational speed, electrical components as well as measurement, air distribution devices and fans.

SMTL 243B TAB II 4 (4,0,0,0)

Covers air balance test reports, air velocity reading instruments, temperature as well as humidity instruments and general procedure for balancing systems.

SMTL 244B Advanced Welding/Industrial I 4 (4,0,0,0)

Covers the Shielded Metal Arc Welding (SMAW) process and learning how to weld on multiple joints with different rods in all positions.

SMTL 245B Advanced Welding/Industrial II 4 (4,0,0,0)

Continue welding processes introduced in SMTL 244B. Exercises are designed for certifications in 18 gauge and 10 gauge.

SMTL 246B HVAC-R Equipment I 4 (4,0,0,0)

Includes understanding the refrigeration cycle, components, piping and start-up of HVAC-R equipment.

SMTL 247B HVAC-R Equipment II 4 (4,0,0,0)

Continuation of SMTL 246B and includes documentation, troubleshooting and diagnosing of refrigerant systems. Additional curriculum covers basic electricity, components, controls, diagrams, troubleshooting, and diagnosing of electrical systems.

SMTL 248B Food Service Equipment Fabrication/Installation I 4 (4,0,0,0)

Covers safety, metallurgy, local codes, materials along with application, and Gas Tungsten Arc Welding (GTAW).

SMTL 249B Food Service Equipment Fabrication/Installation II 4 (4,0,0,0)

Continuation of SMTL 248B including Carbon Arc Braze Welding. Will become competent in installation and modification of various pieces of kitchen/food service equipment.

SMTL 260B Foreman Training 2 (2,0,0,0)

Covers record keeping, legal documents and considerations along with the responsibilities of a foreman in the Sheet Metal industry.

SMTL 261B TAB III 4 (4,0,0,0)

Covers systems balancing, low pressure constant volume supply systems, return air and exhaust systems, variable air volume systems, leak testing, controllers and controlled devices.

SMTL 262B TAB IV 4 (4,0,0,0)

Covers pumps, water balance preparation, water system balance procedures and water chillers.

SMTL 263B Advanced Welding/Industrial III 4 (4,0,0,0)

Covers the Shielded Metal Arc Welding (SMAW) processes for structural welding.

SMTL 264B Advanced Welding/Industrial IV 4 (4,0,0,0)

Continuation of SMTL 263B. Preparation for certification in 3/8 inch plate and a variety of other welding processes.

SMTL 265B HVAC-R Equipment III 4 (4,0,0,0)

Greater detail given in the areas covered in SMTL 247B including refrigerant cycle, components, piping, start-up, commissioning, troubleshooting and diagnosing refrigeration systems.

SMTL 266B HVAC-R Equipment IV 4 (4,0,0,0)

Greater detail given in the areas covered in SMTL 265B including advanced electrical curriculum in components, controls, troubleshooting and diagnosing electrical systems.

SMTL 267B Food Service Equipment Fabrication/Installation III 4 (4,0,0,0)

Covers a variety of processes required to install, modify and repair food service equipment.

SMTL 268B Food Service Equipment Fabrication/Installation IV 4 (4,0,0,0)

Continuation of SMTL 267B. Various specialty items such as hand rails and wall coverings will also be covered.

SMTL 269B CAD/Detailing III 4 (4,0,0,0)

Covers 3D ductwork on architectural and mechanical building layout drawings.

SMTL 270B CAD/Detailing IV 4 (4,0,0,0)

Covers how to generate reports, shipping lists and drawings detailed enough to be utilized for manufacturing, installation, shipping, estimating and ordering.

SMTL 284B Architectural Sheet Metal III 4 (4,0,0,0)

This course is part of the Sheet Metal Local #88 Apprenticeship program and covers moisture control, single-ply roofing and built-up roofing.

SMTL 285B Architectural Sheet Metal IV 4 (4,0,0,0)

This course is part of the Sheet Metal Local #88 Apprenticeship program and is a continuation of SMTL 284B. Topics covered in this course include advanced moisture control, wind uplift, repair and maintenance.

SMTL 290B Journeyman Upgrade I 3 (2,2,0,0)

A review of trade related math skills, drafting, and basic layout skills for Building Trades Sheet Metal Journeymen.

SMTL 291B Journeyman Upgrade II 3 (2,2,0,0)

Covers advanced layout skills, fabrication techniques, and basic welding skills for Building Trades Sheet Metal Journeymen.

SMTL 292B Journeyman Upgrade III 3 (2,2,0,0)

Covers drafting and blueprint reading for Light Commercial Journeymen.

SMTL 293B Journeyman Upgrade IV 3 (2,2,0,0)

Covers foreman training, detailing and bidding for Light Commercial Journeymen.

Tile Setters

TLS 101B Tile Setter Apprentice I 4 (2,4,0,0)

Labor/Management relations and safety. Material and equipment identification. Wall preparation of paper/wire, sheetrock, masonry and wonderboard. Mortars, mixes and adhesive applications. Math ratios.

TLS 102B Tile Setter Apprentice IB 4 (2,4,0,0)

Float strips/floating walls and corners. Cutting materials and setting wall tile. Tub splash installation. Math, safety and human relations.

TLS 105B OSHA/First Aid/CPR for Tile Setters 3 (3,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Tile Setters trade. Additional topics include First Aid and CPR. Graded Pass/Fail.

TLS 151B Tile Setter Apprentice II 4 (2,4,0,0)

Grouting with mixes and additives. Installation on walls, floors, countertops, back splash and showers. Math and safety.

TLS 152B Tile Setter Apprentice IIB 4 (2,4,0,0)

Tiling floors with the two-step method, quarry and ceramics. Setting beds by rodding and screening. Pullmans and continuation on countertops/backsplashes. Math and safety.

TLS 170B OSHA 10 0.5 (0.66,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Tile Setters trade. This course places emphasis on OSHA regulations and policies. Graded Pass/Fail.

TLS 201B Tile Setter Apprentice III 4 (2,4,0,0)

Tile tub splash and shower curb with the scratch and float method. Floating and tiling columns. Math and safety.

TLS 202B Tile Setter Apprentice IIIB 4 (2,4,0,0)

Tiling arches and steps with quarry and split brick. Math and Safety.

TLS 240B First Aid/CPR 0.5 (0.66,0,0,0)

This course provides CPR training and First Aid instruction as applied to the Tile Setters trade. Graded Pass/Fail.

Teamsters

TMST 100B OSHA General Industry Class 1 (1,0,0,0)

An OSHA 10 approved General Industry class on safety in the workplace. Graded Pass/Fail.

TMST 105B OSHA 30 2 (2,0,0,0)

This course provides an overview into 29 CFR 1926 as applied to the Teamsters Trade. This course places emphasis on areas considered hazardous including personal protective equipment, fall protection, hazard awareness, ladders, and scaffolding. Graded Pass/Fail.

TMST 120B Introduction to the Convention Industry 2 (2,0,0,0)

An overview of the convention industry designed to give apprentices knowledge of general information. Procedures for reporting to work, work attire and responsibilities to the industry are covered. Graded Pass/Fail.

TMST 130B Beginning Decorating 2 (2,0,0,0)

Symbols, usage codes, usage, and furniture are identified. Reading work orders and floor plans as they relate to decorating are covered. Customer service skills are emphasized. Graded Pass/Fail.

TMST 140B Beginning Systems 1 (1,0,0,0)

Systems blueprint reading is practiced. How to recognize packages is presented. The ability to identify all the parts and tools associated with the Systems is emphasized. Graded Pass/Fail.

TMST 150B Beginning Design and Repair 2 (2,0,0,0)

Modular Interlocking Systems (MIS) blueprint reading is practiced. How to recognize the different packages is presented. The ability to identify all the parts and tools associated with MIS is emphasized. Graded Pass/Fail.

TMST 160B Beginning Installation and Dismantle 2 (2,0,0,0)

This course introduces blueprint reading, booth construction and tool use. Additionally, basic mathematics and human relations skills are taught. Graded Pass/Fail.

TMST 170B Forklift Theory 3 (3,0,0,0)

Forklift safety following OSHA standards is covered as well as forklift maintenance. Different types of forklifts and their uses are presented. Propane safety is emphasized. Load capacities and proper centering techniques are detailed. Graded Pass/Fail.

TMST 200B Advanced Forklift 3 (3,0,0,0)

This course covers forklift operations including loading trailers, using loading ramps and docks. Logistics of forklift operations is also covered. Graded Pass/Fail.

TMST 220B Advanced Installation and Dismantle 3 (3,0,0,0)

This course covers advanced blueprint reading, custom floor work and graphics. Advanced mathematics and ongoing human relations are also covered. Graded Pass/Fail.

TMST 230B Lead Foreman Training 2 (2,0,0,0)

This course covers leadership skills, customer service and labor calls. Management responsibilities and filling out appropriate paperwork is also covered. Graded Pass/Fail.

TMST 240B First Aid/CPR 1 (1,0,0,0)

Red Cross First Aid/CPR standards and accepted procedures are demonstrated for certification. Graded Pass/Fail.

TMST 250B Condor Operating 3 (3,0,0,0)

Operational techniques and safety are stressed. Additional topics include equipment inspection, hand signals and proper rigging. Graded Pass/Fail.

TMST 260B Rigging 1 (1,0,0,0)

Standard rigging hand signals and acceptable rigging techniques are detailed. Graded Pass/Fail.

TMST 265B Heavy Duty Rigging 1 (1,0,0,0)

In this course, the student will learn heavy rigging fundamentals as well as signal person requirements and qualifications. Graded Pass/Fail.

TMST 270B Scissor Lift 1 (1,0,0,0)

Operational safety following required OSHA standards and operating techniques are demonstrated. Graded Pass/Fail.

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STUDENT CODE OF CONDUCT

POLICY PURPOSE

To establish standards, procedures, and sanctions for students that are consistent with Chapter 6 of the NSHE Code, “Rules and Disciplinary Procedures for Members of the University Community.”

POLICY STATEMENT

The College of Southern Nevada (CSN or College) continually strives to establish a spirit of community in accordance with the highest standards of academic excellence and freedom, institutional integrity, and constitutional protections. Such an environment is essential in fostering intellectual growth and achievement. Each member of the College shares the responsibility of maintaining conditions conducive to the achievement of the College’s mission. CSN has adopted policies that are applicable college wide and in some instances department specific to set forth standards and expectation.

As members of the College community, the behavior of all students is governed by the NSHE Code and the Student Conduct Code. Students are also subject to other Policies including, for example only, the Academic Integrity Policy and the Disruptive and Abusive Student Policy, and such policies will govern when applicable to a situation and the Student Conduct Code will apply as necessary. In addition, students may also be members of other college-based communities that impose additional standards of conduct, for example only, intercollegiate athletic teams and Phi Theta Kappa. Nothing contained in the Student Conduct Code is intended to create a contractual obligation between CSN and members of the CSN Community. CSN reserves the right to modify the Student Conduct Code at any time and the President of the College may suspend or rescind all or any part of this policy or related procedures.

The Nevada System of Higher Education (NSHE) Board of Regents reserves to the President of the College the authority and responsibility for matters of student discipline. This authority is generally delegated by the President to the Vice President for Student Affairs and the staff of the Student Affairs division. The Student Conduct Code consists of standards, procedures, and sanctions that are consistent with Chapter 6 of the NSHE Code, “Rules and Disciplinary Procedures for Members of the University Community.” In the event of a conflict between the Student Conduct Code and the NSHE Code, the NSHE Code shall prevail.

The Student Code of Conduct (SCC) is maintained with latest changes and may be found on the College’s website under Policies and Procedures at <http://www.csn.edu>.

Student Rights and Responsibilities

I. Authority and Jurisdiction

The President is charged by the NSHE Board of Regents with the responsibility of establishing and

enforcing policies governing student conduct. CSN’s policies regarding student conduct enable the College to protect against the conduct of those who, by their actions, impair or infringe on the rights of others or interfere with the orderly operations of the College. CSN may respond to violations of CSN’s Policies occurring at any of the following locations:

- A. College campus, including owned, leased or controlled property.
- B. Any location where a student is engaging in College activities or is engaging in activities arising out of the student’s membership in the College community. Violators may be accountable to both civil and criminal authorities and to the College for actions that constitute violations of its policies. At the discretion of College officials, the College may proceed with enforcement of its policies while other proceedings are pending.

II. Emergency Clause

The President or his designee may order the immediate suspension of a student for an interim period pending a disciplinary hearing for any student who there is cause to believe endangers the health, safety, or welfare of the College community or its property. Simultaneous with such suspension, the President or his designee shall refer the charges to the Student Affairs Division, which shall process such charges in the manner and within the time limits required by the Student Conduct Code. The student has the right to challenge the interim suspension by requesting a hearing within ten (10) days as specified in the NSHE Code.

III. Student Rights

The College shall provide for:

- A. The orderly administration of the SCC. Reasonable deviations from the disciplinary procedures described in the SCC will not invalidate a decision or proceeding unless the Vice President for Student Affairs determines that such errors were substantial enough to prevent a fair hearing. The SCC does not have any application to the discretion of any instructor in awarding final grades. The appeal process for grades is provided in the Grade Appeal Policy and the Academic Integrity Policy, as applicable.
- B. The right to freedom from discrimination on the basis of race, gender, age, religion, creed, national origin, disability, or sexual orientation. Procedures for reporting and investigating allegations of abuse are also available on the College website and posted throughout campus.
- C. The right to engage in inquiry and discussion, to exchange thoughts and opinions, and to speak, write, or print freely on any subject in accordance with the guarantees of federal and state laws, and CSN policies.

- D. The right, as citizens, to exercise their freedoms without fear of College interference.
- E. The opportunity to participate in the formulation of policy directly affecting students through membership on appropriate committees as determined by the President of the College, student government and other recognized groups within the College.
- F. Ready access to established College policies and procedures.
- G. The right to engage in peaceful and orderly speech, protest, demonstration, and picketing within the public forum which do not disrupt the educational functions of the College.

IV. Student Responsibilities

Students are expected to abide by the standards and expectations of the NSHE Code, the College policies, and/or the student's department or program policies.

The following conduct, being incompatible with the purposes of an academic community, is prohibited and shall constitute cause for discipline and may lead to the procedures and disciplinary sanctions established herein, other CSN policies, and/or the NSHE Code, as applicable.

- A. Engaging in conduct that interferes with academic freedom as specified in section 2.1.4 of the NSHE Code.
- B. The use of, or threat to use, force or violence against any member or guest of the College, except when lawfully permissible.
- C. Interference by force, threat or duress with the lawful freedom of movement of persons or vehicles on the premises of the College.
- D. The intentional disruption or unauthorized interruption of functions of the College, including but not limited to classes, convocations, lectures, meetings, recruiting interviews and social events, on or off premises of the College.
- E. Willful damage, destruction, defacement, theft or misappropriation of equipment or property belonging to, in the possession of or on premises occupied by, the College, including, but not limited to, littering or other inappropriate disposal of refuse.
- F. Knowing possession on any premises of the College of any firearms, explosives, dangerous chemicals or other instruments of destruction, such as fireworks, or other dangerous weapons as defined by the laws of the State of Nevada, without the written authorization of the President of the College.
- G. Trespassing or continued occupation of buildings, structures, grounds or premises belonging to, or occupied by, the College after having been ordered to leave by the President or other College official acting in the course and scope of his or her employment.
- H. Forgery, alteration, falsification or destruction of College documents or furnishing false information in documents submitted to the College.
- I. Making an accusation which is intentionally false or is made with reckless disregard for the truth against any member of the College community by filing a complaint or charges under the NSHE Code, the College's policies or under any applicable established grievance procedure at the College.
- J. The repeated use of obscene or abusive language in a classroom or public meeting of the College where such usage is beyond the bounds of generally accepted good taste and which, if occurring in a class, is not significantly related to the teaching of the subject matter.
- K. Willful incitement of persons to commit any of the acts herein prohibited.
- L. Disorderly, lewd or indecent conduct occurring on College premises or at a College sponsored function on or off such premises.
- M. Any act prohibited by local, state or federal law which occurs on College premises or at a College sponsored function on or off such premises. For example, storing, possessing, using distributing, selling, bartering, manufacturing, exchanging, or giving away controlled substances as defined in Nevada Revised Statutes is prohibited. As another example, operating a motor vehicle in violation of traffic rules so as to endanger another person or property is prohibited. As another example, use or possession of alcoholic beverages in violation of state law or in violation of the Board of Regents Policy, Title 4, Chapter 20, Section A. 4 is prohibited.
- N. Any act of unlawful discrimination or harassment based on race, creed, color, sex, age, sexual orientation, handicap or national origin. Harassment is any verbal, visual or physical conduct that is sufficiently pervasive that it adversely affects, or has the purpose or logical consequence of interfering with the student's educational program or creates an intimidating, hostile or offensive environment for other members of the College community.
- O. Acts of academic dishonesty, including but not limited to cheating, plagiarism, falsifying research data or results, or assisting others to do the same. School officials may choose to deal with any act that is a violation of the CSN Academic Integrity Policy in accordance with that policy rather than the discipline procedures set forth in this SCC. (CSN Academic Integrity Policy available at [://www.csn.edu/pages/1722.asp](http://www.csn.edu/pages/1722.asp)).

- P. Willfully destroying, damaging, tampering, altering, stealing, misappropriating, or using without permission any system, program or file of the College or NSHE including any violation of the System Computing Policy as set forth in the Board of Regents Handbook, Title 4, Chapter 1, Section 22.
- Q. Acts of hazing defined as any method of initiation into or affiliation with the college community, a student organization, a sports team, an academic association, or other group engaged in by an individual that intentionally or recklessly endangers another individual.
- R. Any other conduct which violates applicable stated prohibitions, policies, procedures, rules, regulations or bylaws of the Board of Regents or the College, or which violates reasonable directions of the College officials or law enforcement officers acting in the performance of their duties.

PROCEDURE

The Administration of the Student Conduct Code

I. Introduction

The Vice President for Student Affairs appoints the Student Conduct Officers who assist in the administration of the SCC.

- A. The Vice President for Student Affairs may appoint such Hearing Officers and Hearing Committees as required.
- B. Any notices to be served upon a student accused of a violation under the SCC shall be sent by return receipt requested to the student's address of record with the College or will be hand-delivered.
- C. Consistent with the requirements of the Clery Act, both parties to an alleged sexual offense will be notified of the outcome of any disciplinary proceedings.

II. Filing a Complaint

Complaints alleging a violation of the SCC shall be filed with the appropriate Student Conduct Officer or the Vice President for Student Affairs. Such complaints must meet the following criteria:

- A. The complaint must be in writing;
- B. The complaint must be signed by the complainant;
- C. To the extent possible, the date, time, place, name of persons involved and the circumstances of the alleged violation should be specified; and
- D. The name of persons who may have witnessed the alleged prohibited conduct should be listed.

III. Notification and Information Gathering

- A. The student named in the complaint will be notified by letter describing the alleged violation, whom to contact for an interview or information, the date by which that contact must occur, and that

an administrative hold may be placed upon the student's academic records for failure to respond. The letter will include a copy of the SCC or direct where it can be located on the CSN's website.

- B. The Student Conduct Officer will gather information relevant to any complaint indicating that a Student Conduct Code violation may have occurred. The Student Conduct Officer gathering that information has the authority to meet with individuals involved to discuss the matter. Any person believed to have information relevant to the complaint may be contacted and encouraged to discuss this matter.

In the absence of compelling circumstances, the process shall be completed within twenty (20) college working days after the filing of the complaint.

- C. Based on the information gathered, the Student Conduct Officer will decide whether to recommend to dismiss, modify, or forward the charge as presented.
 - 1. If the recommendation regarding the complaint is dismissal, the Student Conduct Officer will notify all concerned in writing of this decision.
 - 2. Similarly, if the determination of the Student Conduct Officer is that the charges are to be modified or forwarded as presented, all concerned will be notified in writing.
- D. If the proposed action against the person charged may lead, in the opinion of the Student Conduct Officer, to suspension or expulsion and the person charged is a minor, the parents or legal guardians shall be notified of the charges and of the proposed hearing at least seven (7) calendar days prior to the pending hearing by certified or registered mail, return receipt requested, sent to the parents' or legal guardians' last known address posted on the records of the Registrar of the member institution involved.

IV. Informal Resolution of charges being brought under the SCC

In all cases, accused students have the right to a formal hearing pursuant to the procedures outlined herein. However, the accused student may request in writing that the Student Conduct Officer resolve the complaint.

- A. The Student Conduct Officer may informally resolve the complaint with the consent of the person charged and the approval of the Vice President for Student Affairs by:
 - 1. Conciliating with the original complainant and the accused student;
 - 2. Permitting the complainant to voluntarily drop the complaint; or
 - 3. Permitting the person charged to voluntarily accept a disciplinary sanction.

B. A resolution discussion will be conducted by the Student Conduct Officer at which the accused student may have an advisor present.

1. Throughout the informal resolution process and only until such time as the accused student voluntarily accepts sanctions, the student has the right to decline an informal resolution.
2. After any initial information gathering, the Student Conduct Officer will provide the accused student with a complete accounting of the proposed sanctions in a letter postmarked within seven (7) college working days of the date of the resolution meeting at which the sanctions were outlined. If the sanctions contained in the written report differ from what was presented at the resolution discussion, those differences are to be noted and explained.
3. This written notice will inform the accused student of the available options, which are to accept the sanctions in full or to reject the sanctions. If the sanctions are rejected in whole or in part, the informal process ends and a formal hearing will be scheduled.
4. This notice will also inform the accused student that the informal process does not provide for an appeal other than to opt for a formal hearing. Because there is no appeal for informal resolutions, if the student accepts the sanctions proposed by the Student Conduct Officer, the sanctions will be imposed immediately.
5. The accused student will be informed of the responsibility to notify the Student Conduct Officer in writing of the student's choice to accept or reject the sanctions within seven (7) college working days of the date the notice of the proposed sanctions was received by the student. If the student rejects the proposed sanctions, the Student Conduct Officer will notify the student that the informal resolution process has ended and the formal hearing process has been initiated.

V. Formal Resolution

- A. Seven (7) college working days following the completion of the initial information gathering process, or the informal resolution process, the Administrative Officer shall make a recommendation to the Vice President for Student Affairs whether to proceed to a formal hearing.
- B. The Vice President for Student Affairs shall notify the parties of a decision to accept or reject the Administrative Officers recommendation, within seven (7) college working days of receipt of the recommendation.
- C. If the Vice President for Student Affairs determines that the matter should not proceed to hearing, unless new evidence sufficient in the opinion of the

Vice President for Student Affairs to reopen the case is subsequently discovered, the complaint shall be dismissed and the disciplinary procedures shall be closed. All documents shall be handled in accordance with section 6.8.2 (f) of the NSHE Code.

- D. If the Vice President for Student Affairs determines that the matter should proceed to a formal hearing, any additional investigation by the Administrative Officer must be concluded within ten (10) college working days, absent compelling circumstances.

VI. Types of Formal Hearings

- A. Pursuant to section 6.4.4 of the NSHE Code, the procedure to conduct a hearing is to be determined by the institutional President or his/her designee.
- B. The student who is charged with a disciplinary infraction shall have the right to recommend to the Vice President for Student Affairs what type of hearing will be held. Within seven (7) college working days after receipt of the decision of the Vice President for Student Affairs to conduct a formal hearing, the student shall notify the Vice President for Student Affairs and the Administrative Officer of the student's recommendation for the type of hearing, either a General Hearing Officer or a General Hearing Committee.
 1. General Hearing Officer: A formal hearing held individually with a Hearing Officer who is appointed by the Vice President for Student Affairs. The Hearing Officer's role is to be an objective party, aware of and knowledgeable about the Student Conduct Code and hearing procedures.
 2. General Hearing Committee: A hearing chaired by the Student Conduct Officer. The Hearing Committee is composed of the chair and at least a three-member panel consisting of at least one student and at least one professional staff and/or faculty. The chair will serve without vote and preside over the hearing. Members will be selected by the Vice President for Student Affairs.
- C. A charged student may petition the Vice President for Student Affairs for, or the Vice President for Student Affairs may choose to have, a hearing before a Special Hearing Officer or a Special Hearing Committee.
 1. Special Hearing Officer: A formal hearing held with a Hearing Officer appointed by the Vice President for Student Affairs, who is an attorney or has the professional experience in presiding at judicial or quasi-judicial adversary proceedings and who holds no contractual relationship with any System institution during the term of appointment.

2. Special Hearing Committee: A formal hearing, administered by a Hearing Officer appointed by the Vice President for Student Affairs and an elected Hearing Committee. The composition of the panels and method of election shall be consistent with section 6.11 of the NSHE Code.
- D. The charged student may challenge a hearing member for cause and may challenge a decision by the Vice President for Student Affairs by following the appeal process in Article X of the Student Conduct Code.
- E. In accordance with Hearing Procedures (Article VIII), the Hearing Officer or Committee shall make findings of fact and, if necessary, recommend sanctions at the close of the hearing. The Hearing Officer or Committee's recommended sanction will include a determination of whether the sanction shall be (a.) imposed after the ten (10) college working days during which a student may file an appeal, or (b.) imposed only after the conclusion of appeal procedures. Nothing in this section abrogates the Vice President of Student Affairs' authority, under extenuating circumstances, to immediately impose the sanction.

VII. Notice of formal hearings:

- A. A notice of hearing letter from the Student Conduct Officer must be provided to the charged student and the complainant a minimum of ten (10) college working days prior to any hearing. This letter shall include the following information:
 1. Date, time, place of hearing;
 2. Specification of the misconduct charged;
 3. Name of complainant;
 4. Specification, to the extent possible, of the time, place, person(s) involved and circumstances of alleged prohibited conduct and name(s) of possible witnesses.
 5. Notification that the person charged may be accompanied by an advisor of the charged person's choice. If the person charged intends to have an attorney or other representative present, he or she must notify the Student Conduct Officer no later than five (5) college working days before the hearing of the name and address of the advisor, if any, and whether the advisor is an attorney. If, at any time during the proceeding, the student desires a representative or a change of representative, that right may be invoked. The proceeding will be stayed for a period of no fewer than five (5) and no more than fifteen (15) college working days. This right may be invoked only once during any disciplinary proceeding, unless the Student Conduct Officer agrees to any additional requests for changes of representation or unless the student's attorney withdraws;
6. A copy of the applicable disciplinary hearing procedures; and
7. Such other information as the Student Conduct Officer may wish to include.
- B. Notices shall be either hand-delivered directly to the person charged or sent by certified or registered mail. Notices delivered by mail are considered delivered when sent, provided that three (3) additional college working days shall be added to the time period set forth for minimum notice (NSHE Code section 6.9.3b).

VIII. Hearing Procedures

The Student Conduct Officer will be responsible for providing in writing a report summary to the Hearing Officer or Hearing Committee members and the charged student, including all information that resulted from the investigation process. This information will be the basis of the formal hearing proceedings.

- A. Upon request, the student charged, the student's attorney or other representative, if any, and the Student Conduct Officer have the right to examine any documentary evidence to be presented at the hearing, at least five (5) college working days prior to the hearing during regular business hours.
- B. Students will be presumed innocent until proven otherwise by a preponderance of the evidence. The burden of proof shall at all times rest upon the party bringing the charge.
- C. Any formal hearing conducted by a General Hearing Committee or Special Hearing Committee requires a majority to determine a student's responsibility.
- D. The hearing is closed unless the person charged requests an open hearing (NSHE Code section 6.9.8).
- E. Relaxed evidentiary standards will apply; hearings are not full-blown legal proceedings.
- F. The charged student, or the student's attorney or other representative, has the right to present, challenge, and/or rebut evidence and to question or cross-examine witnesses at any hearing.
- G. The charged student, or the student's attorney or other representative, has the right to respond to the allegation, to present relevant information, and to call witnesses on the student's behalf. The charged student and the student's attorney or other representative, has the right to hear and question all witnesses at the hearing.
- H. The charged student has the right to appear at a hearing in order to hear the evidence, to offer explanatory and clarifying information, and to question any witnesses. However, it is not necessary that the student be present for action to be taken. The charged student may, at his or her election, choose not to attend a formal disciplinary

- hearing. In such cases, failure to respond or appear will not create a presumption of responsibility or non-responsibility (NSHE Code section 6.9.10).
- I. All findings of fact, recommendations and decisions must be based only on the evidence presented at the hearing.
 - J. Reasonable deviations from the disciplinary procedures described in the SCC will not invalidate a decision or proceeding unless the Vice President for Student Affairs determines that such errors were substantial enough to prevent a fair hearing.
 - K. A single hearing may be held for more than one person charged in cases arising out of a single or multiple occurrences. The Student Conduct Officer makes such determinations, subject to review by the Vice President for Student Affairs. However, each accused student retains the right to have his/her case heard individually.
 - L. An audio tape recording will be made of the hearing for the purpose of review by the Appeals Committee. The record shall be the property of CSN and will be maintained as such for a period of at least one year or longer if the matter is before the courts. Upon the written request of the charged student, a copy of the tape shall be made available to the student by the Administrative Officer, within ten (10) college working days following the request. Confidentiality of tapes from closed hearings shall be maintained by all parties and their representatives.
 - M. The Hearing Officer or Committee's findings of fact and recommended sanction (including the determination of whether the sanctions shall be (a.) imposed after the ten (10) college working days during which the student may file an appeal or (b.) only after the conclusion of the appeal process) shall be made in writing to the Vice President for Student Affairs within ten (10) college working days after the close of the hearing, with copies provided to the student charged and the Administrative Officer. The student's copy shall be sent by certified mail, return receipt requested. Lists of possible sanctions appear in section 6.3 of the NSHE Code and Article IX of the SCC.
 - N. The Vice President for Student Affairs shall review the findings of fact and recommended sanctions reported by the Hearing Officer or Committee, and may:
 1. Dismiss the charge or charges, in any combination;
 2. Affirm the recommended sanctions;
 3. Impose a lesser sanction than recommended; or
 4. Order a new hearing.
 - O. The Vice President for Student Affairs shall submit a written decision within ten (10) college working days after receipt of the findings and recommended sanctions. The Vice President for Student Affairs shall notify the person charged and the Administrative Officer of the decision and of the appeal procedures. Any decision made by the Vice President for Student Affairs, other than to affirm the recommended sanctions, shall include a written explanation as to why the recommended sanctions were not followed. The student charged shall be notified by personal delivery of the decision or by certified mail, return receipt requested. When a minor student is suspended or expelled, the minor's parent or legal guardian shall be notified by certified mail, return receipt requested, sent to the parent's or legal guardian's last known address posted in the records on file with the Registrar.
 - P. If there is no appeal; the decision issued by the Vice President for Student Affairs is final.

IX. Sanctions

In addition to these formal sanctions and depending on the circumstances, a student may be required to perform community service, be advised to seek counseling or other specialized support services, or be required to participate in an activity or program, the clear purpose of which would be to redirect behavior. Failure to comply with any such requirements will constitute a violation of the Student Conduct Code. Available sanctions include:

- A. Warning:

Notice, oral or written, that continued or repeated violation of College policies or regulations may be cause for further disciplinary action, normally in the forms of censure, loss of privileges and exclusion from activities, probation, suspension, or expulsion.
- B. Loss of Privileges and Exclusion from Activities:

Exclusion from participation in privileges and extracurricular activities.
- C. Disciplinary Probation:

Probation may include exclusion from participation in privileged or extracurricular activities. The person placed on probation shall be notified in writing that the commission of prohibited acts will lead to more severe disciplinary sanctions.
- D. Suspension:

Termination of student status for a specified academic term or terms with reinstatement thereafter. The student will be notified of the suspension in a written notice. The official transcript of the student shall be marked "Disciplinary Suspension Effective _____ to _____." Parents or legal

guardians of minor students shall be notified of the action. After the suspension period has elapsed, the student will be placed on disciplinary probation for a period of time that is equal to the amount of time that the student was suspended. At the end of the probationary interval, the student will be classified as being in “good standing” provided that no further Student Conduct Code violations have occurred.

E. Expulsion or Termination:

Termination of student registration and status for an indefinite period of time. The official transcript of the student shall be marked “Disciplinary Expulsion Effective _____.” The parents or legal guardians of minor students shall be notified of the action.

F. Restitution: The requirement to reimburse the legal owners for a loss due to defacement, damage, fraud, theft, or misappropriation of property. It may be imposed either exclusively or in combination with other disciplinary action. Such reimbursement may take the form of monetary payment or appropriate service to repair or otherwise compensate for damages. Failure to make restitution shall be the cause for more severe disciplinary action.

X. The Appeal Process

A student who has been found by a formal hearing (Administration of the Student Conduct Code, Articles V-VIII) to have violated the SCC has the right to appeal that decision to the President or his/her designee. An appeal is consideration by an appellate body, not a new hearing. The charged student(s) and advisor or attorney has the right to review the student's disciplinary file, including any verbatim record (tape recording) of the hearing. Any sanction imposed as a result of a hearing shall not be effective during the ten (10) college working days during which an appeal may be filed, except that the Vice President for Student Affairs has the authority, under extenuating circumstances, to immediately impose the sanction. If recommended by the Hearing Officer or Committee, the imposition of sanctions may be delayed until the conclusion of the appeal process.

A. Criteria for an Appeal

An appeal from a charged student must cite at least one of the following requirements as the reason for appeal:

1. That the procedure under which the person was charged is invalid, or if valid, was not followed;
2. That the person charged did not have adequate opportunity to prepare and present a defense to the charges;

3. That the evidence presented at the hearing was not substantial enough to justify the decision;
4. That the sanction imposed was not in keeping with the gravity of the violation.

B. Appeal Procedures

1. The student charged has ten (10) college working days from receipt of the written decision to file a written appeal.
2. The student charged with the Student Conduct Code violation must include the following information in the appeal:
 - a. The specific grounds for the appeal (See A 1-4 above);
 - b. Supporting arguments and documentation; and
 - c. Other relevant information the student charged wishes to include.
3. The written appeal will be forwarded to the Vice President for Student Affairs. Within ten (10) college working days of receipt, the Vice President for Student Affairs will forward the appeal to The Standing Committee on Student Conduct Code Appeals for its recommendation.
4. The Standing Committee may request a personal appearance of the person charged. The appearance of the person charged shall be limited to the issues raised by the appeal. An appearance is not required nor will nonappearance prejudice the appeal.

C. Student Appeal Record

In considering the appeal, a review will be conducted of the existing record of the case, which will include, but is not limited to:

1. The original statement sent to the student as written notice of the charges;
2. The written decision of the initial Hearing Officer or Committee;
3. The audio recording of the initial Hearing Officer or Committee; and
4. The student's letter of appeal.

D. Appeal Result

Recommendations on appeals by the Standing Committee will be made within twenty (20) college working days following receipt of the appeal from the Vice President for Student Affairs. The committee shall make its recommendation as to the result of the appeal. The recommendation will be to:

1. Dismiss the charge;
2. Affirm the charge;
3. Impose a lesser sanction; or
4. Order a new hearing.

In cases resulting in suspension, the Standing Committee's decision shall constitute a

recommendation to the President, who shall have the final authority. In cases of expulsion, the Board of Regents will be asked to consider the appeal at the next regularly scheduled meeting of that body. The decision of the Board of Regents will be final. In all other cases, including appeals of decisions by the Vice President to automatically impose sanctions other than suspension or expulsion, the recommendation of the Standing Committee will be the final disposition of the case.

E. Distribution of Response

Copies of the written result of the appeal shall be sent to:

1. Student charged;
2. Hearing Officer or Chair of the Hearing Committee; and
3. Administrative Officer.

F. New Hearing

When a new hearing is ordered, the case, along with a written rationale for upholding the appeal, will be heard by a different Hearing Officer or Hearing Committee. In this situation, the student retains the right to appeal as if it were an original hearing.

G. Request for Review

When an appeal is not heard and the student perceives the decision not to hear the appeal was biased, the student has the option of having the case reviewed by requesting, within ten (10) college working days after the date of the decision, a review through the President. This review will be conducted by the President, or his/her designee.

H. Standing Committee on Student Conduct Code Appeals

The Standing Committee is a three member appellate panel consisting of one faculty member, one professional staff member, and one student. Members of the Standing Committee on Student Conduct Code Appeals shall be appointed in the following manner:

1. No later than September 1, or the first college working day thereafter if September 1 is a holiday or weekend, the Vice President for Student Affairs shall submit to the President a list of three professional staff; the Chair of the Faculty Senate shall submit a list of three faculty; and the President of the Associated Students of the College of Southern Nevada (ASCSN) shall submit a list of six students.
2. The President of the College shall invite one member on each list to serve on the Standing Committee; others on the list shall serve as alternates. Should any of the three entities noted above fail to provide such a list, the

President shall have full authority to make an appointment for that position. Ideally, all appointments should be in place no later than September 15.

3. Members of the Standing Committee shall elect their own chair.
4. Members of the Standing Committee serve for a one-year period and are eligible for reappointment.
5. In the event that a member cannot hear an appeal or has a conflict of interest in a given appeal, the remaining members of the Standing Committee shall select an alternate from the previously provided lists. If a particular list has not been provided, the remaining members of the Standing Committee shall have discretion to select an alternate.
6. A conflict of interest shall be deemed to occur whenever an individual has a prior interest in a case as a witness, advisor, hearing panel officer, or other connection that would create the appearance of or an actual conflict.

REGULATIONS FOR DETERMINING RESIDENCY AND TUITION CHARGES

Title 4 Chapter 15

Section 1. Purpose

These regulations have been enacted to provide uniform rules throughout the Nevada System of Higher Education (“the “System”) and all member institutions thereof, for the purpose of determining whether students shall be classified as resident students or nonresident students for tuition charges. (B/R 5/95)

Section 2. Definitions

For the purposes of these regulations, the terms stated below shall have the following meanings:

1. "Alien" means a person who is not a citizen of the United States of America.
2. "Armed Forces of the United States" means the Army, the Navy, the Air Force, the Marine Corps and the Coast Guard, on active duty and does not include the National Guard or other reserve force, with the exception of active members of the Nevada National Guard.
3. "Clear and convincing evidence" means evidence that is clear in the sense that it is not ambiguous, equivocal or contradictory and convincing in the sense that it is of such a credible, reliable, authentic and relevant nature as to evoke confidence in the truth of it.
4. "Continuously enrolled" means enrollment within a normal academic year for which continuous enrollment is claimed. A person need not attend summer sessions or other between-semester sessions in order to be continuously enrolled.
5. "Date of matriculation" means the first day of instruction in the semester or term in which enrollment of a student first occurs, except that at the University of Nevada School of Medicine it means the date that a notice of admittance is sent to a student, and at the community colleges it excludes correspondence courses and community service courses that are not state funded. A person who enrolled in an institution of the Nevada System of Higher Education but withdrew enrollment during the 100% refund period may, for the purposes of these regulations, be deemed not to have matriculated and any determination concerning residency status shall be voided until such time as the person again enrolls at a System institution.
6. "Dependent" means a person who is not financially independent and is claimed as an exemption for federal income tax purposes under Section 152 of the Internal Revenue Code (26 U.S.C. § 152) by another person for the most recent tax year.
7. "Family" means the natural or legally adoptive parent or parents of a dependent person, or if one parent has legal custody of a dependent person, that parent.
8. "Financially independent" means a person who has not been and will not be claimed as an exemption for federal income tax purposes under Section 152 of the Internal Revenue Code (26 U.S.C. § 152) by another person, except his or her spouse, for the most recent tax year.
9. "Graduate Fellow" means a graduate student receiving a stipend that is treated as a scholarship with no specific duties required for the award.
10. "Most recent tax year" means the income tax return submitted for the prior income year.
11. "Legal guardian" means a court-appointed guardian of a dependent person, who was appointed guardian at least twelve (12) months immediately prior to the dependent person's date of matriculation and for purposes other than establishing the dependent person's residence.
12. "Nonresident" means a person who is not a resident.
13. "Objective evidence" means evidence that is verifiable by means other than a person's own statements.
14. "Relocated," means evidence of permanent, full-time employment or establishment of a business in Nevada prior to the date of matriculation.
15. "Residence" a term which for the purposes of these regulations is synonymous with the legal term "domicile," and means that location in which a person is considered to have the most settled and permanent connection, intends to remain and intends to return after any temporary absences. Residence results from the union of a person's physical presence in the location with objective evidence of an intent to remain at that location for other than a temporary purpose.
16. "Resident" means a person who has established a bona fide residence in the State of Nevada with the intent of making Nevada the person's true, fixed and permanent home and place of habitation, having clearly abandoned any former residence and having no intent to make any other location outside of Nevada the person's home and habitation. The term also includes a member of the Armed Forces of the United States who has previously established a bona fide residence in the State of Nevada, but who has been transferred to a military posting outside of Nevada while continuing to maintain a bona fide residence in Nevada. When residence for a particular period is required under these regulations, this shall mean that the person claiming residence for the period must be physically present and residing in Nevada during all of the period required, excluding temporary, short-term absences for business or pleasure.
17. "Returning student" means a student who re-enrolls after a break in enrollment of one of more semesters.
18. "Spouse" means a person's partner in legal marriage or a person's domestic partner if the domestic partnership is registered with the Office of the Nevada Secretary of State.

19. "Student" means a person who is enrolled at an institution of the Nevada System of Higher Education.
20. "Tuition" means a monetary charge assessed against nonresident students, which is in addition to registration fees, or other fees assessed against all students. (B/R 12/09)

Section 3. Tuition — Effective Fall 2014

Tuition shall be charged to nonresident status except as otherwise provided in this section. Tuition shall not be charged:

1. To current enrollees or graduates of a Nevada high school.
2. To returning students who had established an exemption from tuition charges at any NSHE institution in their prior enrollment period.
3. To community college students in community service courses that are not state funded.
4. To a professional employee, classified employee, postdoctoral fellow, resident physician, or resident dentist of the Nevada System of Higher Education currently employed at least half time, or the spouse or dependent child of such an employee.
5. To a graduate student enrolled in the Nevada System of Higher Education and employed by the System in support of its instructional or research programs, only during the period of time of such employment.
6. To graduate fellows.
7. To a member of the Armed Forces of the United States, on active duty, stationed in Nevada as a result of a permanent change of duty station pursuant to military orders, or a person whose spouse, parent or legal guardian is a member of the Armed Forces of the United States stationed in Nevada as a result of a permanent change of duty station pursuant to military orders, including a Marine currently stationed at the Marine Corps Mountain Warfare Training Center at Pickle Meadows, California. If the member ceases to be stationed in Nevada, reside in Nevada, be stationed in Pickle Meadows, California, or be domiciled in Nevada, the spouse, child or legal guardian of the member shall not be charged tuition if the spouse, child or legal guardian of the member was enrolled prior to the reassignment and remains continuously enrolled at an NSHE institution.
8. To a veteran of the Armed Forces of the United States who was honorably discharged and who on the date of discharge was on active duty stationed in Nevada, including a marine stationed at the Marine Corps Mountain Warfare Training Center at Pickle Meadows, California, pursuant to military orders.
9. Except as otherwise provided in Subsection 8 of this Section, to a veteran of the Armed Forces of the United States who was honorably discharged within the two years immediately preceding the date of matriculation of the veteran at any NSHE institution.

10. To a student enrolled in the University Studies Abroad Consortium or in the National Student Exchange Program, only during the period of time of such enrollment. Time spent in Nevada while a student is in the National Student Exchange Program shall not be counted towards satisfying the residence requirement of Section 4, Paragraph 2 below, nor shall enrollment through the Consortium or the Exchange Program be included in the "date of matriculation" for evaluation of Nevada residency.
11. To members of federally recognized Native American tribes, who do not otherwise qualify as Nevada residents, and who currently reside on tribal lands located wholly or partially within the boundaries of the State of Nevada. (B/R 9/13)

Section 4. Resident Students — Effective Fall 2014

Except as otherwise provided in Section 3 of this chapter, as supported by clear and convincing evidence, any person who meets any of the following categories shall be deemed a resident student for tuition purposes:

1. Except as provided otherwise in this section, a dependent person whose spouse, family or legal guardian is a bona fide resident of the State of Nevada for at least twelve (12) months immediately prior to the date of matriculation. Some or all of the following pieces of objective evidence of Nevada residency may be required with the student's application for enrollment and must be issued at least twelve (12) months prior to the date of matriculation:
 - a. Evidence of Nevada as the spouse's, parents' or legal guardian's permanent, primary residence at the date of matriculation. Examples of evidence include home ownership, a lease agreement, rent receipts, utility bills.
 - b. The student's birth certificate or proof of legal guardianship.
 - c. The spouse's, parents' or legal guardian's tax return for the most recent tax year, which indicates the student claimed as a dependent.
 - d. A Nevada driver's license or Nevada identification card for the spouse, parent or legal guardian.
 - e. A Nevada vehicle registration for the spouse, parent or legal guardian.
 - f. Nevada voter registration for the spouse, parent or legal guardian.
 - g. Evidence that the student's spouse, family, or legal guardian has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business in Nevada, (examples of evidence include a letter from the employer or copy of business license)
2. Except as provided otherwise in this section, a financially independent person whose family resides outside the State of Nevada, if the person himself or herself is a bona fide resident of the State of Nevada for

at least twelve (12) months immediately prior to the date of matriculation. Each student who is a resident of the State of Nevada for at least six (6) months but less than twelve (12) months before the date of matriculation for Fall 2005 shall be deemed a bona fide resident. Some or all of the following pieces of objective evidence of Nevada residency may be required with the student's application for enrollment: (B/R 6/05)

- a. Evidence of twelve months physical, continuous presence in the State of Nevada prior to the date of matriculation (examples of evidence include a lease agreement, rent receipts, utility bills). (B/R 6/05)
 - b. The student's tax return for the most recent tax year, indicating a Nevada address. If no federal tax return has been filed by the student because of minimal or no taxable income, documented information concerning the receipt of such nontaxable income. If the student is under the age of 24, a copy of the parent's or legal guardian's tax return for the most recent tax year that indicates the student was not claimed as a dependent.
 - c. The student's Nevada driver's license or Nevada identification card issued prior to the date of matriculation.
 - d. The student's Nevada vehicle registration issued prior to the date of matriculation.
 - e. The student's Nevada voter registration issued prior to the date of matriculation.
 - f. Evidence that the student, and/or the person's spouse, has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business in Nevada (examples of evidence include a letter from the employer or copy of business license).
3. A former member of the Armed Forces of the United States who was relocated from Nevada as a result of a permanent change of duty station pursuant to military orders will be considered a Nevada resident for tuition purposes under the following conditions:
- a. He/She was a resident of Nevada prior to leaving the state as a member of the Armed Forces;
 - b. He/She maintained his/her Nevada residency while a member of the Armed Forces; and
 - c. He/She returns to the State of Nevada within one year of leaving the Armed Forces.
- It will be necessary for the student to supply documentation in support of each of these conditions (e.g., driver's license, property ownership, evidence of absentee voting, etc.)
4. A graduate of a Nevada high school (B/R 8/06)
 5. A financially independent person who has relocated to Nevada for the primary purpose of permanent full-time employment. (B/R 6/05)

6. A financially dependent person whose spouse, family, or legal guardian has relocated to Nevada for the primary purpose of permanent full-time employment. (B/R 12/05)
7. Licensed educational personnel employed full-time by a public school district in the State of Nevada, or the spouse or dependent child of such an employee. (B/R 11/96)
8. A teacher who is currently employed full-time by a private elementary, secondary or postsecondary educational institution whose curricula meet the requirements of NRS 394.130, or the spouse or dependent child of such an employee. (B/R 11/96)
9. An alien who has become a Nevada resident by establishing bona fide residence in Nevada and who holds a permanent immigrant visa, or has been granted official asylum or refugee status, or has been issued a temporary resident alien card, or holds an approved immigration petition as a result of marriage to a U.S. citizen. An alien holding another type of visa shall not be classified as a resident student, except as may be required by federal law or court decisions and upon due consideration of evidence of Nevada residence. (B/R 6/05)

Section 8. Reclassification of Nonresident Status — Effective Fall 2014

There is a rebuttable presumption that a nonresident attending an institution of the Nevada System of Higher Education is in the State of Nevada for the primary or sole purpose of obtaining an education. Therefore, a nonresident who enrolls in an institution of the System shall continue to be classified as a nonresident student throughout the student's enrollment, unless and until the student demonstrates that his or her previous residence has been abandoned and that the student is a Nevada resident. Each student seeking reclassification from nonresident to resident student status must satisfy the conditions described in Subsections 1 through 3.

1. Application and Written Declaration:

An application for reclassification may be submitted under the provisions of this section if the material facts of a student's residency, or the residency of the student's spouse, parent or legal guardian, have substantially changed following matriculation. The student must apply in writing to the appropriate office of the institution for reclassification to resident student status. The application must include a written declaration of intent to relinquish residence in any other state and to certify to the establishment of bona fide residence in Nevada. A declaration form prescribed by the Chancellor and approved by the Board shall be utilized by each institution. The filing of a false declaration will result in the payment of nonresident tuition for the period of time the student was enrolled as a resident student and may also lead to disciplinary

sanctions under Title 2, Chapter Ten of the Nevada System of Higher Education Code. Disciplinary sanctions include a warning, reprimand, probation, suspension or expulsion.

2. Bona Fide Residence and Intent to Remain in Nevada:

The student, or the parents or legal guardian of the student, must document continuous physical presence as a Nevada resident for at least twelve (12) months immediately prior to the date of the application for residency reclassification and must present clear and convincing, objective evidence of intent to remain a Nevada resident. No fewer than four (4) of the following pieces of objective evidence must be submitted with the application for residency reclassification to the satisfaction of the institution. Any evidence or documentation associated with these pieces of evidence must be issued 12 months prior to the first day of the semester for which reclassification is requested:

- a. Ownership of a home in Nevada.
- b. Lease of living quarters in Nevada.
- c. Utility receipts for home or leased quarters.
- d. Nevada driver's license or Nevada identification card
- e. Nevada vehicle registration
- f. Nevada voter registration
- g. Evidence of employment in Nevada such as a letter from employer on employer's letterhead, W-2 income tax form, or pay stubs
- h. A license for conducting a business in Nevada
- i. Admission to a licensed practicing profession in Nevada
- j. Registration or payment of taxes or fees on a home, vehicle, mobile home, travel trailer, boat or any other item of personal property owned or used by the person for which state registration or payment of a state tax or fee is required
- k. A Nevada address listed on Selective Service registration
- l. Evidence of active savings or checking accounts in Nevada financial institutions
- m. Evidence of summer term enrollment at a NSHE institution within the prior academic year or
- n. Any other evidence that objectively documents intent to abandon residence in any other state and to establish Nevada residence

3. Financial Status:

An application for reclassification must include the following objective evidence of financial status:

- a. If financially independent, a true and correct copy of the student's federal income tax return for the most recent tax year showing a Nevada address

must be submitted with the application for residency reclassification. If the student is under the age of 24, a copy of the parent's or legal guardian's tax return for the most recent tax year must be submitted that indicates the student was not claimed as a dependent. If no federal tax return has been filed because of minimal or no taxable income, documented information concerning the receipt of such nontaxable income must be submitted.

- b. If financially dependent, a true and correct copy of the spouse, parent or legal guardian's federal income tax return for the most recent tax year showing a Nevada address must be submitted and must indicate the student filed jointly with a spouse or was claimed as a dependent. Students may also be required to provide documentation such as a birth certificate proof of legal guardianship, or a marriage certificate to prove the relationship. A dependent person whose parent or legal guardian is nonresident is not eligible for reclassification to resident student status.
4. The presentation by person or one or more items of evidence as indicia of residence is not conclusive on the issue of residency. Determinations of residence shall be made on a case-by-case basis and the evidence presented shall be given the weight and sufficiency it deserves, after taking all available evidence into consideration.
5. Residence in a neighboring state other than Nevada is a continuing qualification for enrollment in the WICHE Western Undergraduate Exchange program at a NSHE institution. A student who was initially enrolled in a System institution under the WICHE Western Undergraduate Exchange program shall not be reclassified as a resident student following matriculation. A nonresident student who subsequently disenrolls from the WICHE Western Undergraduate Exchange program and pays full nonresident tuition for at least 12 months may apply for reclassification to resident student status. An application for reclassification may be submitted under the provisions of this section if the material facts of a dependent student's residency as it relates the parents' or legal guardian's residency, have substantially changed following matriculation.
6. When a student has been reclassified to a resident student status, the reclassification shall become effective at the registration period in the System institution immediately following the date the student receives notice of the reclassification decision.
7. No reclassification under these regulations shall give rise to any claim for refund of tuition already paid to NSHE. (B/R 9/13)

Section 9. Administration of the Regulations — Effective Fall 2014

Each institution of the NSHE shall designate an appropriate office to implement and administer these regulations.

1. Each designated office shall make the initial decisions on the resident or nonresident student status of persons enrolling in the institution. If a verifiable error occurs when the initial decision is made to classify a student as a nonresident for tuition purposes, the designated office shall correct the decision and reclassify the student as a resident for tuition purposes without requiring the student to apply for residency reclassification.
2. Each designated office shall make the initial decisions on applications for reclassification from nonresident to resident student status.
3. The President of each System institution shall establish an appellate procedure under which a person may appeal decisions of the designated office concerning tuition or status as a resident or nonresident student to an appellate board.
 - a. A person may appeal a decision of the designated office to the appellate board within thirty (30) days from the date of the decision of the office. If an appeal is not taken within that time, the decision of the designated office shall be final.
 - b. The appellate board shall consider the evidence in accordance with the standards and criteria of these regulations and shall make a decision that shall be final. No further appeal beyond the appellate board shall be permitted.
4. In exceptional cases, where the application of these regulations works an injustice to an individual who technically does not qualify as a resident student, but whose status, either because of the residence of the student or his family, is such as to fall within the general intent of these regulations, then the appellate board shall have the authority to determine that such a student be classified as a resident student. It is the intent of this provision that it applies only in the infrequent, exceptional cases where a strict application of these regulations results, in the sole judgment of the appellate board, in an obvious injustice.

(B/R 9/13)

Section 10. Uniformity of Decisions

The decision of an institution of the NSHE to grant resident student or nonresident student status to a person shall be honored at other System institutions, unless a person obtained resident student status under false pretenses or the facts existing at the time resident student status was granted have significantly changed. Students granted nonresident student status by an institution retains the right to apply for reclassification under the provisions of the chapter.

(B/R 2/05)

WESTERN UNDERGRADUATE EXCHANGE PROGRAM (WUE)

Western Undergraduate Exchange (WUE) is a program coordinated by the Western Interstate Commission for Higher Education (WICHE). Students who are residents of WUE states are eligible to request a reduced tuition rate of 150% of resident tuition at participating institutions. WUE states include: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming.

Only newly admitted students who plan to maintain residency at any of the above states while attending CSN are eligible to apply. The WUE application process must be completed before the student is in attendance at CSN. Once the student has been admitted and enrolled at CSN without WUE status, he/she is no longer eligible for the WUE program. Students must apply for WUE prior to matriculating and must comply with Instate Residency Application Deadlines.

A student enrolled at College of Southern Nevada under WUE must withdraw in writing from the program and pay full nonresident tuition for at least 12 months after which she or he is eligible to apply for reclassification to resident student status.

NSHE NON-DISCRIMINATION POLICY

A. NSHE Non-Discrimination Policy

1. Policy Applicability and Sanctions:

The Nevada System of Higher Education (NSHE) is committed to providing a place of work and learning free of discrimination on the basis of a person's age, disability, whether actual or perceived by others (including service-connected disabilities), gender (including pregnancy related condition), military status or military obligations, sexual orientation, gender identity or expression, genetic information, national origin, race, or religion. Where discrimination is found to have occurred, the NSHE will act to stop the discrimination, to prevent its recurrence, to remedy its effects, and to discipline those responsible.

No employee or student, either in the workplace or in the academic environment, should be subject to discrimination.

It is expected that students, faculty and staff will treat one another and campus visitors with respect.

2. Policy Applicability and Sanctions:

All students, faculty, staff, and other members of the campus community are subject to this policy. Students, faculty, or staff who violate this policy are subject to discipline up to and including termination and/or expulsion, in accordance with the NSHE Code (or in the case of students, any applicable student code of conduct) or, in the case of classified employees, the Nevada Administrative Code. Other lesser sanctions may be imposed, depending on the circumstances. Complaints may also be filed against visitors, consultants, independent contractors, service providers and outside vendors whose conduct violates this policy, with a possible sanction of limiting access to institution facilities and other measures to protect the campus community.

3. Training:

All employees shall be given a copy of this policy and each institution's Human Resources Office shall maintain documentation that each employee received the policy. New employees shall be given a copy of this policy at the time of hire and each institution's Human Resources Office shall maintain documentation that each new employee received the policy.

Each institution shall provide this policy to its students at least annually and may do so electronically.

Each institution shall include this policy and complaint procedure on its website and in its general catalog.

Each institution shall have an on-going non-discrimination training program and shall designate a person or office to be responsible for such training.

4. Discriminatory Practices:

It is illegal to discriminate in any aspect of employment or education, such as:

- hiring and firing;
- compensation, assignment, or classification of employees;
- transfer, promotion, layoff, or recall;
- job advertisements;
- recruitment;
- testing;
- grading;
- acceptance or participation in an academic program or school activity;
- use of employer's facilities;
- training programs;
- fringe benefits;
- pay, retirement plans, and disability leave; or
- Other terms and conditions of employment.

Determining what constitutes discrimination under this policy will be accomplished on a case by case basis and depends upon the specific facts and the context in which the conduct occurs. Some conduct may be inappropriate, unprofessional, and/or subject to disciplinary action, but would not fall under the definition of discrimination. The specific action taken, if any, in a particular instance depends on the nature and gravity of the conduct reported, and may include non-discrimination related disciplinary processes as stated above.

Discriminatory practices also include:

- discrimination on the basis of a person's age, disability (including service connected disabilities), gender (including pregnancy related condition), military status or military obligations, sexual orientation, gender identity or expression, genetic information, national origin, race, or religion.
- retaliation against an individual for filing a charge of discrimination, participating in an investigation, or opposing discriminatory practices;
- employment or education decisions based on stereotypes or assumptions about the abilities, traits or performance of individuals of a certain age, disability (including service-connected disabilities), gender (including pregnancy related condition), military status or military obligations, sexual orientation, gender identity or expression, genetic information, national origin, race, or religion; and
- conduct that has the purpose or effect of substantially interfering with an individual's academic or work performance, or of creating an intimidating, hostile or offensive environment in which to work or learn.

This behavior is unacceptable in the work place and the academic environment. Even one incident, if it is sufficiently serious, may constitute discrimination. One incident, however, does not necessarily constitute discrimination.

B. Policy Against Sexual Harassment

1. Sexual Harassment is Illegal under Federal and State Law:

The Nevada System of Higher Education (NSHE) is committed to providing a place of work and learning free of sexual harassment, including sexual violence. Where sexual harassment is found to have occurred, the NSHE will act to stop the harassment, to prevent its recurrence, to remedy its effects, and to discipline those responsible in accordance with the NSHE Code or, in the case of classified employees, the Nevada Administrative Code. Sexual harassment, including sexual violence, is a form of discrimination; it is illegal. No employee or student, either in the workplace or in the academic environment, should be subject to unwelcome verbal or physical conduct that is sexual in nature. Sexual harassment does not refer to occasional compliments of a socially acceptable nature. It refers to behavior of a sexual nature that is not welcome, that is personally offensive, and that interferes with performance.

It is expected that students, faculty and staff will treat one another with respect.

2. Policy Applicability and Sanctions:

All students, faculty, staff, and other members of the campus community are subject to this policy. Individuals who violate this policy are subject to discipline up to and including termination and/or expulsion, in accordance with the NSHE Code (or applicable Student Code of Conduct) or, in the case of classified employees, the Nevada Administrative Code. Other, lesser sanctions may be imposed, depending on the circumstances.

3. Training:

All employees shall be given a copy of this policy and each institution's Human Resources Office shall maintain documentation that each employee received the policy. New employees shall be given a copy of this policy at the time of hire and each institution's Human Resources Office shall maintain a record that each new employee received the policy.

Each institution shall provide this policy to its students at least annually and may do so electronically.

Each institution shall include this policy and complaint procedure on its website and in its general catalog.

Each institution shall have an on-going sexual harassment training program for employees.

4. Sexual Harassment Practices:

Under this policy, unwelcome sexual advances, requests for sexual favors, and other visual, verbal or physical conduct of a sexual or gender bias nature, constitute sexual harassment when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic status;
- Submission to or rejection of the conduct is used as a basis for academic or employment decisions or evaluations, or permission to participate in an activity; or
- The conduct has the purpose or effect of substantially interfering with an individual's academic or work performance, or of creating an intimidating, hostile or offensive environment in which to work or learn.

Sexual harassment may take many forms—subtle and indirect, or blatant and overt. For example,

- It may occur between individuals of the opposite sex or of the same sex.
- It may occur between students, between peers and/or co-workers, or between individuals in an unequal power relationship (such as by a supervisor with regard to a supervised employee or an instructor regarding a current student).
- It may be aimed at coercing an individual to participate in an unwanted sexual relationship or it may have the effect of causing an individual to change behavior or work performance.
- It may consist of repeated actions or may even arise from a single incident if sufficiently severe.
- It may also rise to the level of a criminal offense, such as battery or sexual violence [sexual assault].
- Sexual violence is a physical act perpetrated against a person's will or where a person is incapable of giving consent due to the victim's use of drugs or alcohol. An individual also may be unable to give consent due to an intellectual or other disability. Sexual violence includes, but is not limited to, rape, sexual assault, sexual battery, and sexual coercion.

Determining what constitutes sexual harassment under this policy is dependent upon the specific facts and the context in which the conduct occurs. Some conduct may be inappropriate, unprofessional, and/or subject to disciplinary action, but would not fall under the definition of sexual harassment. The specific action taken, if any, in a particular instance depends on the nature and gravity of the conduct reported, and may include disciplinary processes as stated above.

Examples of unwelcome conduct of a sexual or gender related nature that may constitute sexual harassment may, but do not necessarily, include, and are not limited to:

- Rape, sexual assault, sexual battery, sexual coercion or other sexual violence; [Sexual assault;]
- Sexually explicit or gender related statements, comments, questions, jokes, innuendoes, anecdotes, or gestures;
- Other than customary handshakes, uninvited touching, patting, hugging, or purposeful brushing against a person's body or other inappropriate touching of an individual's body;
- Remarks of a sexual nature about a person's clothing or body;
- Use of electronic mail or computer dissemination of sexually oriented, sex-based communications
- Sexual advances, whether or not they involve physical touching;
- Requests for sexual favors in exchange for actual or promised job or educational benefits, such as favorable reviews, salary increases, promotions, increased benefits, continued employment, grades, favorable assignments, letters of recommendation;
- Displaying sexually suggestive objects, pictures, magazines, cartoons, or screen savers;
- Inquiries, remarks, or discussions about an individual's sexual experiences or activities and other written or oral references to sexual conduct.

Even one incident, if it is sufficiently serious, may constitute sexual harassment. One incident, however, does not usually constitute sexual harassment.

C. Complaint and Investigation Procedure.

This section provides the complaint and investigation procedure for complaints of discrimination or sexual harassment, including sexual violence (except that complaints against students may be referred to student disciplinary processes). The Chancellor (for the System Office) and each president shall designate no fewer than two administrators to receive complaints. The administrators designated to receive the complaints may include the following: (1) the Title IX Coordinator; (2) the Affirmative Action Program Officer; (3) [P-7] the Human Resources Officer; or (4) any other officer designated by the president. The President shall also designate a primary investigating officer (Primary Officer) to process all complaints. The Primary Officer may be any of the individuals identified above. All complaints, whether received by the Affirmative Action Officer, Human Resources Officer or other designated officer, must immediately be forwarded to the Primary Officer. All Title IX complaints must be immediately forwarded to the Title IX Coordinator.

An individual filing a complaint of alleged discrimination or sexual harassment shall have the opportunity to select an independent advisor for assistance, support, and advice and shall be notified of this opportunity by the Primary Officer, or by her designee. It shall be the choice of the individual filing the complaint to utilize or not utilize the independent advisor. The independent advisor may be brought into the process at any time at the request of the alleged victim. The means and manner by which an independent advisor shall be made available shall be determined by each institution or unit.

An individual against whom a complaint of alleged discrimination or sexual harassment is filed shall have the opportunity to select an independent advisor for assistance, support, and advice and shall be notified of this opportunity by the Primary Officer, or by her designee. It shall be the choice of the individual against whom the complaint is filed to utilize or not utilize the independent advisor. The independent advisor may be brought into the process at any time at the request of the alleged perpetrator. The means and manner by which an independent advisor shall be made available shall be determined by each institution or unit.

If anyone in a supervisory, managerial, administrative or executive role or position, such as a supervisor, department chair, or director of a unit, receives a complaint of alleged discrimination or sexual harassment, or observes or becomes aware of conduct that may constitute discrimination or sexual harassment, the person must immediately contact one of the individuals identified above to forward the complaint, to discuss it and/or to report the action taken. Title IX complaints must be immediately provided to the Title IX Coordinator.

Complaints of discrimination or sexual harassment should be filed as soon as possible with the supervisor, department chair, dean, or one of the administrators listed above and/or designated by the president to receive complaints of alleged sexual harassment or discrimination.

1. Employees:

- a. An employee who believes that he or she has been subjected to discrimination or sexual harassment by anyone is encouraged – but it is neither necessary nor required, particularly if it may be confrontational – to promptly tell the person that the conduct is unwelcome and ask the person to stop the conduct. An employee is not required to do this before filing a complaint. A person who receives such a request must immediately comply with it and must not retaliate against the employee.
- b. The employee may file a discrimination or sexual harassment complaint with his or her immediate supervisor, who will in turn immediately contact one of the officials listed above.

- c. If the employee feels uncomfortable about discussing the incident with the immediate supervisor, the employee should feel free to bypass the supervisor and file a complaint with one of the other listed officials or with any other supervisor.
 - d. After receiving any employee's complaint of an incident of alleged discrimination or sexual harassment, the supervisor will immediately contact any of the individuals listed above to forward the complaint, to discuss it and/or to report the action taken. The supervisor has a responsibility to act even if the individuals involved do not report to that supervisor.
2. Students:
 - a. A student who believes that he or she has been subjected to discrimination or sexual harassment by anyone is encouraged-but it is neither necessary nor required particularly if it may be confrontational-to promptly tell the person that the conduct is unwelcome and ask the person to stop the conduct. A student is not required to do this before filing a complaint. A person who receives such a request must immediately comply with it and must not retaliate against the student.
 - b. The student may file a complaint with his or her major department chair or director of an administrative unit, who will in turn immediately contact one of the officials listed above.
 - c. If the student feels uncomfortable about discussing the incident with the department chair or director of an administrative unit, the student should feel free to bypass the person and file a complaint with one of the above officials or to any chair, dean, or director of an administrative unit who will in turn immediately contact one of the officials listed above to forward the complaint, to discuss it and/or to report the action taken. The chair, dean or director of an administrative unit has a responsibility to act even if the individuals involved do not report to that person.
 3. Non-Employees and Non-Students:

Individuals who are neither NSHE employees nor NSHE students and who believe they have been subjected to discrimination or sexual harassment by a NSHE employee during the employee's work hours or by a NSHE student on campus or at a NSHE-sponsored event may utilize any of the complaint processes set forth above in this section.
 4. Investigation and Resolution:
 - a. After receiving a complaint of the incident or behavior, the Primary Officer, or designee, will initiate an investigation to gather information about the incident. If the Primary Officer is unable to initiate an investigation, due to a conflict or for any other reason, the President shall designate another individual to act as Primary Officer for the matter. Each institution may set guidelines for the manner in which an investigation shall be conducted. The guidelines shall provide for the prompt, thorough, impartial, and equitable investigation and resolution of complaints, and shall identify the appropriate management level with final decision-making authority. The guidelines shall, at a minimum, provide the person subject to the complaint with information as to the nature of the complaint, and shall further provide that the person filing the complaint and the person who is the subject of the complaint have [a] equal rights to be interviewed, identify witnesses and provide documentation pertaining to the complaint. In most cases, an investigation should be completed within 45 calendar days of receipt of the complaint.
 - b. The standard for evaluating complaints shall be a preponderance of the evidence. At the completion of the investigation, a recommendation will be made to the appropriate management regarding the resolution of the matter. The recommendation is advisory only.
 - c. After the recommendation has been made, a determination will be made by appropriate management regarding the resolution of the matter. If warranted, disciplinary action up to and including involuntary termination or expulsion will be taken. Any such disciplinary action shall be taken, as applicable, in accordance with NSHE Code Chapter 6 (or applicable Student Code of Conduct), or, in the case of classified employees, NAC Chapter 284. Other appropriate actions will be taken to correct problems and remedy effects, if any, caused by the conduct, if appropriate. If proceedings are initiated under Chapter 6, the applicable Student Code of Conduct, or the Nevada Administrative Code, the investigation conducted pursuant to this policy may be used as part of such investigations. The administrative officer, in his or her discretion, may also supplement the investigation with additional investigation. In any disciplinary hearings conducted pursuant to a Student Code of Conduct or under Title 2, Ch. 6, the burden of proof shall be by a preponderance of the evidence. In connection with any such disciplinary hearings, the person filing the complaint and the person who is the subject of the complaint have equal rights to be interviewed, identify witnesses, and provide and receive documentation and witness lists pertaining to the complaint, and if an appeal is provided, to appeal the decision.
 - d. After the appropriate management has made a determination regarding the resolution of the matter, and depending on the circumstances, both parties may be informed concurrently of the resolution.

e. In the event actions are taken against an individual under NSHE Code Chapter 6 (or applicable Student Code of Conduct) or NAC Chapter 284, such matters generally remain confidential under those sections, except that final decisions following hearings or appeals of professional employees and State of Nevada personnel hearings involving classified employees are public records. Student matters generally remain confidential under FERPA.

f. When discriminatory conduct or sexual harassment involves a crime of violence or a non-forcible sex offense, FERPA permits the institution to disclose to the alleged victim the final results (limited to the name of the alleged perpetrator, any violation found to have been committed, and any sanction imposed) of a disciplinary proceeding against the alleged perpetrator, regardless of whether the institution concluded that a violation was committed. With respect to an institutional disciplinary proceeding alleging a sex offense, the Clery Act requires that the accuser and the accused must be informed of the outcome.

g. In the event a student is found to have engaged in sexual harassment of another student, the institution shall disclose to the student who was harassed, information about the sanction imposed on the student who was found to have engaged in harassment when the sanction directly relates to the harassed student.

5. Prompt Attention:

Complaints of discrimination or sexual harassment are taken seriously and will be dealt with promptly, thoroughly, impartially, and equitably. Where discrimination is found to have occurred, the NSHE institution or unit where it occurred will act to stop the discrimination or sexual harassment, to prevent its recurrence, to remedy its effects, if any, and to discipline those responsible.

6. Confidentiality:

The NSHE recognizes that confidentiality is important. However, confidentiality cannot be guaranteed. The administrators, faculty or staff responsible for implementing this policy will respect the privacy of individuals reporting or accused of discrimination or sexual harassment to the extent reasonably possible and will maintain confidentiality to the extent possible. Examples of situations where confidentiality cannot be maintained include, but are not limited to, necessary disclosures during an investigation, circumstances where the NSHE is required by law to disclose information (such as in response to legal process), or when an individual is in harm's way.

7. Retaliation:

Retaliation against an individual who in good faith complains of alleged discrimination or sexual harassment or provides information in an investigation about behavior that may violate this policy is against the law, will not be tolerated, and may be grounds for discipline. Retaliation in violation of this policy may result in discipline up to and including termination and/or expulsion. Any employee or student bringing a discrimination or sexual harassment complaint or assisting in the investigation of such a complaint will not be adversely affected in terms and conditions of employment and/or academic standing, nor discriminated against, terminated, or expelled because of the complaint. Intentionally providing false information is also grounds for discipline.

"Retaliation" may include, but is not limited to, such conduct as:

- the denial of adequate personnel to perform duties;
- frequent replacement of members of the staff;
- frequent and undesirable changes in the location of an office;
- the refusal to assign meaningful work;
- unwarranted disciplinary action;
- unfair work performance evaluations;
- a reduction in pay;
- the denial of a promotion;
- a dismissal;
- a transfer;
- frequent changes in working hours or workdays;
- an unfair grade;
- an unfavorable reference letter.

a. Employees

1. An employee who believes that he or she has been subjected to retaliation may file a retaliation complaint with his or her immediate supervisor, who will in turn immediately contact one of the officials listed above.
2. If the employee feels uncomfortable about discussing the alleged retaliation with the immediate supervisor, the employee should feel free to bypass the supervisor and file a complaint with one of the other listed officials or with any other supervisor.
3. After receiving any employee's complaint of an incident of alleged retaliation, the supervisor will immediately contact any of the individuals listed above to forward the complaint, to discuss it and/or to report the action taken. The supervisor has a responsibility to act even if the individuals involved do not report to that supervisor.

b. Students

1. A student who believes that he or she has been subjected to retaliation may file a retaliation complaint with his or her major department chair or director of an administrative unit, who will in turn immediately contact one of the officials listed above.
2. If the student feels uncomfortable about discussing the alleged retaliation with the department chair or director of an administrative unit. The student should feel free to bypass the person and file a complaint with one of the above officials or to any chair, dean, or director of an administrative unit who will in turn immediately contact one of the officials listed above to forward the complaint, to discuss it and/or to report the action taken. The chair, dean or director of an administrative unit has a responsibility to act even if the individuals involved do not report to that person.

c. Complaints of retaliation under Title IX must be immediately provided to the Title IX Coordinator.

8. False Reports:

Because discrimination and sexual harassment frequently involve interactions between persons that are not witnessed by others, reports of discrimination or sexual harassment cannot always be substantiated by additional evidence. Lack of corroborating evidence or "proof" should not discourage individuals from reporting discrimination or sexual harassment under this policy. However, individuals who make reports that are later found to have been intentionally false or made maliciously without regard for truth, may be subject to disciplinary action under the applicable University and Board of Regents disciplinary procedures. This provision does not apply to reports made in good faith, even if the facts alleged in the report cannot be substantiated by subsequent investigation.

9. Supervisors' Responsibilities:

Every supervisor has responsibility to take reasonable steps intended to prevent acts of discrimination or sexual harassment, which include, but are not limited to:

- Monitoring the work and school environment for signs that discrimination or harassment may be occurring;
- Refraining from participation in, or encouragement of actions that could be perceived as discrimination or harassment (verbal or otherwise);
- Stopping any observed acts that may be considered discrimination or harassment, and taking appropriate steps to intervene, whether or not the involved individuals are within his/her line of supervision; and

- Taking immediate action to minimize or eliminate the work and/or school contact between the two individuals where there has been a complaint of sexual harassment, pending investigation.

If a supervisor receives a complaint of alleged discrimination or sexual harassment, or observes or becomes aware of conduct that may constitute discrimination or sexual harassment, the supervisor must immediately contact one of the individuals identified above to forward the complaint, to discuss it and/or to report the action taken.

Failure to take the above action to prevent the occurrence of or stop known discrimination or harassment may be grounds for disciplinary action.

10. Relationship to Freedom of Expression:

The NSHE is committed to the principles of free inquiry and free expression. Vigorous discussion and debate are fundamental rights and this policy is not intended to stifle teaching methods or freedom of expression. Discrimination or sexual harassment, however, is neither legally protected expression nor the proper exercise of academic freedom; it compromises the integrity of institution's, the tradition of intellectual freedom and the trust placed in the institutions by their members.

(BOR, Title 4, Chapter 8, Section 13)

Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI, Title VII, of the Civil Rights Act of 1964, Title IX Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans with Disability Act of 1990, has been delegated to Debbie Tanner, Compliance Investigator II, Charleston Campus - 6375 West Charleston Blvd., Office E-128, Las Vegas, NV 89146, (702) 651-5783, debbie.tanner@csn.edu.

Additional information regarding CSN's grievance procedures may be found in the Affirmative Action Plan located on the Affirmative Action web page at www.csn.edu

SAFETY AND SECURITY

The Nevada System of Higher Education puts forth the following Environmental Health and Safety Statement for all institutions in the system in accordance with federal, state and local laws and regulations.

The NSHE Board of Regents declares that the development, implementation and compliance monitoring of environmental health and safety programs is integral to the NSHE mission. The programs will be structured in such a way that they will become an essential part of campus life.

It is the intention of the NSHE Board of Regents that all CSN institutions be good neighbors in their communities in regard to environmental health and safety issues.

Environmental health and safety programs should be administered at the institutional level. The NSHE Board of Regents delegates the authority for the development, implementation and compliance monitoring of environmental health and safety programs to the Presidents of each institution. Each institution shall develop environmental health and safety programs that best address the problems specific to that institution.

Each institution shall develop an administrative structure to implement environmental health and safety programs in a manner that educates all employees and students to provide knowledge and understanding of the programs. These programs shall include but are not limited to:

- Biological safety
- Chemical safety
- Diving safety
- Disaster preparedness
- Fire protection
- Industrial hygiene
- Radiation protection
- Sanitation
- Occupational safety and accident prevention
- Environmental protection/hazardous materials management
- Relations with governmental agencies

Each institutional administrative structure shall establish oversight, advisory and compliance programs for monitoring institutional operations and activities. The NSHE Board of Regents recognizes the right of institutions to enter into cooperative agreements with each other in order to address all environmental health and safety concerns.

COVERT VIDEO SURVEILLANCE POLICY

The use of covert video surveillance for anything other than a criminal investigation on the campuses of the College of Southern Nevada is prohibited. This policy shall not interfere with the legitimate use of videotaping for academic purposes.

EMERGENCY PROCEDURES

Flip charts outlining “Emergency Procedure Actions” are posted in classrooms, in offices and common areas on each campus. Instructors will ensure students are made aware of these procedures and, in the case of an emergency, take appropriate action to evacuate the classroom and/or building. Students should review this information on the first day of class and understand what actions they may be expected to take during an emergency. Public Safety and floor wardens are trained for specific evacuation actions. Emergency Assembly Points have been established on all upper floor levels. Individuals with disabilities will be provided with information pertaining to this program from the Disability Resource Center. In case of a disaster situation, CSN will fall within the scope of the Clark County Emergency Operations Plan and its own emergency operations plan. Copies of this plan are located here:

<http://www.csn.edu/Include/Updated%20032513%20EMERGENCY%20OPERATIONS%20PLAN%20--%20COLLEGE-WIDE%20DISTRIBUTION--FINAL%20WITH%20PRESIDENT'S%20SIGNATURE.pdf>

CSN POLICE DEPARTMENT

The CSN Police Department consists of a Chief of Police, Assistant to the Chief, 1 Police Lieutenant, 2 Police Sergeants, 9 Police Officers, and 58 contract public safety officers. The Chief of Police reports to the Senior Vice President, Finance and Administration. All campus public safety officers are service-oriented security professionals trained to handle security and safety matters on campus.

All members of the public safety department are trained in first aid and cardiopulmonary resuscitation (CPR). All public safety personnel carry a two-way radio, flash light, and are in distinctive uniforms. The enforcement authority of the Department of Public Safety and its College Police Officers, as well as their working relationship with state and local police agencies, may be found in Nevada Revised Statute 396.325. All college police officers are Nevada POST Category 1 certified. They are armed, have arrest powers, and are service-oriented law enforcement professionals trained to handle police and safety matters on campus.

Contract Security Officers are deployed throughout the campus 24 hours a day, 7 days a week in a campus security vehicle and on foot patrol. A public safety vehicle is used primarily for inner perimeter patrol. Police Officers work overlapping shifts on the 8x6 and 1x11 tours. This type of deployment allows for optimum coverage during peak hours and also permits the officers to engage in community relations programs for public safety to better interact with students, faculty, staff and visitors. Security officers are non-sworn officers and do not have arrest powers above that of a private citizen.

The CSN Police Department has an excellent working relationship with external law enforcement authorities.

THE JEANNE CLERY DISCLOSURE OF CAMPUS SECURITY POLICY AND CAMPUS CRIME STATISTICS ACT

The Federal Student Right-to-Know and Campus Security Act of 1990, recently renamed “The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act”, (Clery Report) was enacted by congress and signed into Law in November of 1990. In 1992, and most recently in 1998, Congress significantly amended the law, expanding the reporting criteria. It requires institutions of higher learning to prepare, publish, and distribute a report concerning campus crime statistics and security policies on an annual basis through appropriate publications, mailings, or computer network to all current students, and employees, and to all prospective students and prospective employees upon request. This report contains the annual report concerning specific campus crime and arrest statistics as well as information about campus policies and practices intended to promote crime awareness, campus safety and security.

In order to comply with provisions of this Federal Law, reports from the College and several local law enforcement agencies are compiled and published annually by the CSN Police Department.

As public safety professionals responsible for providing and maintaining a safe and secure environment, we have an obligation to provide an accurate and comprehensive report describing the services we provide to the college community and accurate accounting of any incidents of crime, which occurred on our premises.

Crime Statistics for the three calendar years are also provided as is information regarding the number of arrests made for certain designated criminal offenses during these time periods. It should be noted that the crime statistics included in this report are organized by location that are identified as either owned or leased property belonging to the College of Southern Nevada. The statistics include incidents involving non-student, non-faculty and non-staff individuals.

Successful public safety is a campus-wide endeavor and requires the cooperation and support of the entire college community. For this reason, we have prepared this information. We hope that it will be informative and useful in maintaining the safety and well being of the College of Southern Nevada community and our guests.

The CSN Annual “Clery Notice” Compliance:

Copies of this report may be obtained in person at any of the CSN Police Department Offices located at our three main campus sites or on-line at the CSN Police Department website located at: <http://www.csn.edu/police>. The CSN “Clery Notice” is made available to anyone upon request. It is also distributed (directly) via Internet email to all students, faculty and staff in October each year.

In accordance with the Office of the President, and pursuant to federal law: “Jeanne Clery Disclosure of Campus Security and Policy and campus Crime Statistics Act of 1998” all currently enrolled students, campus employees and all prospective students and prospective employees are entitled to request and receive a copy of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act Annual Security Report.

The Report contains crime statistics about certain specified crimes/incidents that have been reported to Campus Public Safety Authorities over the past three years and that have occurred either on-campus, in off-campus buildings or property owned or controlled by the College, or on public property adjacent to the campus.

The report also contains policies and practices pertaining to campus security, crime reporting, alcohol and drugs, victims’ assistance programs, student discipline, campus resources, community safety alerts, crime prevention, access to campus facilities as well as personal safety tips.

The report encourages the reporting of all crime occurrences. The report tells how and to whom to report crimes, especially sexual assault crimes.

The CSN Clery Notice is printed and distributed via email, on numerous college department web pages posting, publication in various campus periodicals, to ensure campus-wide dissemination and to meet federal law mandates.

The CSN Police Department: Offices

The CSN Police Department has offices located at each of the three main campuses and individual officers are assigned at all of the Urban and Rural Learning Centers. The Department takes proactive measures to create and maintain a safe environment for all members of the college community and our guests. While our contract security officers are trained to be alert for anything that might breach campus safety and security, it is important that any irregularity noticed by you be reported immediately.

The CSN Department of Public Safety: 24-Hour Patrol Coverage

Public safety personnel staff the office, 24 hours a day, 365 days a year, including holidays. While on patrol, the officers are instructed to be alert for anything that might breach campus safety and security on the campus. It is important that any irregularity noticed by you be reported immediately.

NON-Emergency:(702) 651-5613
Emergency:(702) 651-7911

Campus Security Policies and Crime Reporting Procedures:

We encourage all students, faculty, staff and visitors of the college to report actual or suspected criminal behavior or other emergencies that occur on campus to The Department of Public Safety in a timely manner. To report a crime or emergency, call:

Charleston Campus(702) 651-5613
Cheyenne Campus(702) 651-4055
Henderson Campus(702) 651-3113
CSN Police Administrative Office (702) 651-2677

Learning Centers Main Number:

City Hall Center	(702) 651-4880
Green Valley Center	(702) 651-2650
Mesquite Center	(702) 346-2485
Moapa Valley Center	(702) 398-7545
Nellis Center	(702) 651-4155

Sahara West Center	(702) 651-4747
Summerlin Center	(702) 651-4900
Western Center	(702) 651-4800

You may also call the CSN Public Safety Emergency Telephone Number: (702) 651-7911. This number is manned 24 hours a day by a trained contract security officer. You may also use the emergency Red and Yellow call boxes located throughout the campus.

The CSN Police Department is the official “Campus Security Authority” and will accept for investigation a report of a crime from any member of the college community.

In cases of off-campus criminal activity, the complainant is encouraged to report the incident to the proper law enforcement authorities. CSN has always advocated prompt and accurate reporting of all crimes. Every report of a criminal incident received is recorded on a CSN Campus Security Incident Report and assigned a sequential number for that reporting period. All crimes that are reported are logged in the daily crime log and reports are filed with a unique identification number. This daily log contains the nature of the crime, date, time, general location, and disposition of the complaint. Also, crime information is exchanged between the College’s Police Department and local police authorities. In compliance with the Student Right To Know “Clery Act” our crime reporting statistics are published annually and are available at The CSN Police Department, Student Information Center, and on our CSN Police Department website at: <http://www.csn.edu/police>.

Illegal Weapons:

In accordance with NRS 202.265, it is illegal to carry or possess a firearm on any NSHE property unless the owner has written permission from the College President.

Crime Prevention Tips:

The CSN Police Department believes it is more beneficial to prevent crime than to react after the fact. All members of the college community are encouraged to take responsibility of his/her own security, and when possible assist other with their security needs. A primary vehicle for accomplishing this goal is the department’s comprehensive crime prevention strategy. This strategy is based on a multi-layered approach that includes proactive area patrol of the campus and crime prevention education and training.

Crime Prevention/awareness programs begin with new student orientation presentations. Topics of discussion include the Student conduct code, academic dishonesty, sexual harassment, substance abuse, alcohol, and hate violence.

Public Safety personnel are available to provide seminars on a host of topics: workplace violence, sexual awareness and responsibility, crime prevention/personal safety, domestic

violence and acquaintance rape. The college makes every effort to advise and update students about public safety procedures and security conditions on campus. Some of the media utilized to notify and inform students are:

1. Campus Security related articles published in the college newspaper.
2. Notices in the college bulletin, student newsletter, and college website.

CRIME AWARENESS, CAMPUS SECURITY AND CRIME REPORTING

In compliance with the Campus Security Act of 1990, the following information is a result of reviewing valid incidents at CSN. These categories must be reported and distributed to current students and employees.

Copies of this report may be obtained in person at any of the Public Safety Offices located at our three main campus sites or on-line at the CSN Police Department website under Jeanne Clery Disclosure of Campus Crimes Statistics: <http://www.csn.edu/police>.

STUDENT RIGHT TO KNOW

The Student Right to Know and Campus Security Act requires that CSN comply with provisions and updates on the graduation rate and/or persistence rate of all fall first time, first year degree seeking or certificate seeking undergraduate students. This information is listed as follows:

Cohort Group	Full-Time		Part-Time		Total	
Fall 2010						
Female	1171	55%	2332	43%	3503	46%
Male	964	45%	3089	57%	4053	54%
Total	2135		5421		7556	
African American	287	13%	639	12%	926	12%
Asian	172	8%	426	8%	598	8%
Caucasian	778	36%	2132	39%	2910	39%
Hawaiian/Pac Isl	50	2%	105	2%	155	2%
Hispanic	566	27%	1715	32%	2281	30%
Multi (non-Hisp)	99	5%	113	2%	212	3%
Native American	11	1%	47	1%	58	1%
Non-res Alien	113	5%	6	0%	119	2%
Unknown	59	3%	238	4%	297	4%
Total	2135		5421		7556	
Fall 2010 in 2011						
Returning:	61%		32%		41%	
Female	753	58%	958	54%	1716	56%
Male	544	42%	801	46%	1345	44%
Total	1302		1759		3061	
African American	149	11%	207	12%	356	12%
Asian	126	10%	168	10%	294	10%
Caucasian	457	35%	709	40%	1166	38%
Hawaiian/Pac Isl	28	2%	41	2%	69	2%
Hispanic	353	27%	527	30%	880	29%
Multi (non-Hisp)	64	5%	37	2%	101	3%
Native American	4	0%	11	1%	15	0%
Non-res Alien	83	6%	3	0%	86	3%
Unknown	38	3%	56	3%	94	3%
Total	1302		1759		3061	

Cohort Group	Full-Time	Part-Time	Total
Fall 2010 in 2012			
Returning:	40%	21%	26%
Female	479 56%	642 57%	1121 57%
Male	369 44%	493 43%	862 43%
Total	848	1135	1983
African American	87 10%	125 11%	212 11%
Asian	83 10%	118 10%	201 10%
Caucasian	298 35%	429 38%	727 37%
Hawaiian/Pac Isl	18 2%	20 2%	38 2%
Hispanic	255 30%	359 32%	614 31%
Multi (non-Hisp)	37 4%	29 3%	66 3%
Native American	2 0%	13 1%	15 1%
Non-res Alien	44 5%	4 0%	48 2%
Unknown	24 3%	38 3%	62 3%
Total	848	1135	1983
Fall 2010 in 2013			
Returning:	23%	15%	17%
Female	286 57%	458 56%	744 56%
Male	214 43%	361 44%	575 44%
Total	500	819	1319
African American	42 11%	80 12%	122 9%
Asian	50 15%	91 10%	141 11%
Caucasian	173 34%	303 38%	476 36%
Hawaiian/Pac Isl	13 4%	17 3%	30 2%
Hispanic	158 27%	267 29%	425 32%
Multi (non-Hisp)	21 2%	20 1%	41 3%
Native American	3 1%	5 1%	8 1%
Non-res Alien	25 3%	2 0%	27 2%
Unknown	15 4%	34 5%	49 4%
Total	500	819	1319
Graduates (to Aug '13)	259	Pct of Cohort:	3.4%
Fall 2011			
Female	904 53%	1599 53%	2503 53%
Male	787 47%	1390 47%	2177 47%
Total	1691	2989	4680
African American	227 13%	499 17%	726 16%
Asian	141 8%	233 8%	374 8%
Caucasian	551 33%	983 33%	1534 33%
Hawaiian/Pac Isl	26 2%	64 2%	90 2%
Hispanic	481 28%	834 28%	1315 28%
Multi (non-Hisp)	97 6%	139 5%	236 5%
Native American	11 1%	23 1%	34 1%
Non-res Alien	64 4%	0 0%	64 1%
Unknown	93 5%	214 7%	307 47%
Total	1691	2989	4680
Fall 2011 in 2012			
Returning:	59%	38%	46%
Female	536 54%	642 56%	1178 55%
Male	454 46%	500 44%	954 45%
Total	990	1142	2132
African American	84 8%	111 10%	195 9%
Asian	105 11%	116 10%	221 10%
Caucasian	308 31%	379 33%	687 32%
Hawaiian/Pac Isl	13 1%	23 2%	36 2%
Hispanic	312 32%	353 31%	665 31%
Multi (non-Hisp)	63 6%	64 6%	127 6%
Native American	6 1%	8 1%	14 1%
Non-res Alien	44 4%	0 0%	44 2%
Unknown	55 6%	88 8%	143 7%
Total	990	1142	2132
Fall 2011 in 2013			
Returning:	38%	26%	30%
Female	360 56%	429 56%	789 56%
Male	288 44%	343 44%	631 44%
Total	648	772	1420
African American	38 6%	48 6%	86 6%
Asian	79 12%	75 10%	154 11%
Caucasian	205 32%	256 33%	469 33%
Hawaiian/Pac Isl	9 1%	16 2%	25 2%
Hispanic	213 33%	256 33%	469 33%
Multi (non-Hisp)	35 5%	37 31%	72 5%
Native American	4 1%	5 1%	9 1%
Non-res Alien	30 5%	0 0%	30 2%
Unknown	35 5%	63 8%	98 7%
Total	648	772	1420
Graduates (to Aug '12)	33	Pct of Cohort:	0.7%

Cohort Group	Full-Time	Part-Time	Total
Fall 2012			
Female	838 52%	1319 52%	2157 52%
Male	779 48%	1225 48%	2004 48%
Total	1617	2544	4161
African American	192 12%	379 15%	571 14%
Asian	112 7%	191 8%	303 7%
Caucasian	488 30%	795 31%	1283 31%
Hawaiian/Pac Isl	34 2%	34 1%	68 2%
Hispanic	502 31%	818 32%	1320 32%
Multi (non-Hisp)	93 6%	134 5%	227 5%
Native American	6 0%	12 0%	18 0%
Non-res Alien	66 4%	1 0%	67 2%
Unknown	124 8%	180 7%	304 7%
Total	1617	2544	4161
Fall 2012 in 2013			
Returning:	60%	44%	50%
Female	513 53%	591 53%	1104 53%
Male	458 47%	522 47%	980 47%
Total	971	1113	2084
African American	82 8%	80 7%	162 8%
Asian	80 8%	110 10%	190 9%
Caucasian	299 31%	374 34%	673 32%
Hawaiian/Pac Isl	19 2%	17 2%	36 2%
Hispanic	312 32%	392 35%	702 34%
Multi (non-Hisp)	58 6%	50 4%	108 5%
Native American	2 0%	3 0%	5 0%
Non-res Alien	45 5%	1 0%	46 2%
Unknown	76 8%	86 8%	162 7%
Total	971	1113	2084
Fall 2013			
Female	889 53%	1632 48%	2521 50%
Male	783 47%	1777 52%	2560 50%
Total	1672	3409	5081
African American	186 11%	416 12%	602 12%
Asian	128 8%	243 7%	371 7%
Caucasian	522 31%	1045 31%	1567 31%
Hawaiian/Pac Isl	21 1%	64 2%	85 2%
Hispanic	449 27%	1147 34%	1596 31%
Multi (non-Hisp)	135 8%	184 5%	319 6%
Native American	11 1%	19 1%	30 1%
Non-res Alien	91 5%	0 0%	91 2%
Unknown	129 8%	291 9%	420 8%
Total	1672	3409	5081

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CSN Locations



MESQUITE CENTER
MOAPA VALLEY CENTER

WESTERN CENTER
SUMMERLIN CENTER
CHARLESTON CAMPUS
SAHARA WEST CENTER
GREEN VALLEY CENTER

NELLIS CENTER
CHEYENNE CAMPUS

HENDERSON CAMPUS



650-2276
csn.edu

CHARLESTON CAMPUS
6375 W. Charleston Blvd.
Las Vegas, NV 89146
702-651-5000

CHEYENNE CAMPUS
3200 E. Cheyenne Ave.
North Las Vegas, NV 89030
702-651-4000

HENDERSON CAMPUS
700 College Dr.
Henderson, NV 89002
702-651-3000

GREEN VALLEY CENTER
1560 Warm Springs Rd.
Henderson, NV 89014
702-651-2629

MESQUITE CENTER
140 N. Yucca St.
Mesquite, NV 89027
702-346-2485

MOAPA VALLEY CENTER
2400 N. St. Joseph St.
P.O. Box 359
Logandale, NV 89021
702-398-7545

NELLIS CENTER
99th MSS/DPE
4475 England Ave., Suite 318
Nellis AFB, NV 89191
702-651-4155

SAHARA WEST CENTER
2409 Las Verdes St.
Las Vegas, NV 89102
702-651-4747

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