

**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 (26 Credits):**

	CR	SEMESTER
<b>COMMUNICATIONS:</b> BUS 108, COM 101, 102, 215, ENG 102, 114, 205, JOUR 102, THTR 105	3	_____
<b>ENGLISH:</b> ENG 100, 101, 107, 113	3-5	_____
<b>HUMAN RELATIONS:</b> 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	_____
<b>MATHEMATICS:</b> MATH 111B, 116, 124, 126, 127 or higher	3	_____
<b>SCIENCE:</b> EGG 131 <b>Plus one of the following:</b> AST, BIOL, CHEM, EGG 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	7	_____
<b>FINE ARTS/HUMANITIES/ SOCIAL SCIENCES:</b> 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	_____
<b>U.S. AND NEVADA CONSTITUTIONS:</b> PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

**SPECIAL PROGRAM REQUIREMENTS (38 Credits):**

	CR	SEMESTER
<b>MT 102B</b> Fundamentals of Electricity	4	_____
<b>MT 104B</b> Industrial Electricity	4	_____
<b>MT 106B</b> Mechanical Power Transmission	4	_____
<b>MT 108B</b> Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____
<b>MT 110B</b> Material Science I (Ferrous and Non-Ferrous)	4	_____
<b>MT 115B</b> Programmable Logic Controllers I	3	_____
<b>MT 116B</b> Programmable Logic Controllers II	3	_____

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	CR	SEMESTER
<b>Plus 12 Credits from the following</b>		
<b>FOR ELECTRICAL MAINTENANCE:</b>		
<b>AC 102B</b> Introduction to HVAC Electrical Theory and Application	5	_____
<b>AC 103B</b> Introduction to HVAC Mechanical Theory and Application	5	_____
<b>CADD 105</b> Intermediate Computer Aided Drafting	3-4	_____
<b>CONS 130B</b> Construction Electricity	3	_____
<b>ESH 207B</b> Introduction to Safety Management	3	_____
<b>ESH 240B</b> Wastewater Treatment I	3	_____
<b>ET 100B</b> Survey of Electronics	3	_____
<b>ET 104B</b> Fabrication and Soldering Techniques	.5-6	_____
<b>ET 106B</b> Test Equipment Operation	3	_____
<b>MT 180B</b> Co-Op/Internship First Semester	3	_____
<b>MT 181B</b> Co-Op/Internship Second Semester	3	_____
<b>FOR MECHANICAL MAINTENANCE:</b>		
<b>CADD 105</b> Intermediate Computer Aided Drafting	3-4	_____
<b>ESH 240B</b> Wastewater Treatment I	3	_____
<b>MT 180B</b> Co-Op/Internship First Semester	3	_____
<b>MT 181B</b> Co-Op/Internship Second Semester	3	_____
<b>WELD 130B</b> Welding Support Equipment Operation	3	_____
<b>WELD 132B</b> Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations	2	_____
<b>WELD 133B</b> SMAW (Stick)	4	_____
<b>WELD 134B</b> GTAW (Tig)	4	_____
<b>FOR PLANT OPERATION:</b>		
<b>CADD 105</b> Intermediate Computer Aided Drafting	3-4	_____
<b>EMA 101</b> Principles of Emergency Management	3	_____
<b>EMA 102</b> Disaster Mitigation and Preparedness	3	_____
<b>ESH 207B</b> Introduction to Safety Management	3	_____
<b>ET 100B</b> Survey of Electronics	3	_____
<b>ET 104B</b> Fabrication and Soldering Techniques	.5-6	_____
<b>ET 106B</b> Test Equipment Operation	3	_____
<b>MT 180B</b> Co-Op/Internship First Semester	3	_____
<b>MT 181B</b> Co-Op/Internship Second Semester	3	_____

**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.