

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	_____

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	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 100 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	_____

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.

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