

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	_____

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 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 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.