

**ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)**

This degree provides students with the opportunity to acquire the knowledge, skills and abilities to obtain employment in the environmental resource field. Courses include a 40-hour HAZWOPER OSHA requirement. 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 the management of hazardous materials and its impact on the human health and the environment.
- Demonstrate an understanding of the various laws, regulations and guidelines that are applicable to the ESH arena, and how they drive decision making in the management of hazardous materials and hazardous waste.
- Demonstrate an understanding of the concept of Industrial Hygiene as it applies to various industrial settings.
- Demonstrate adequate knowledge of hazardous materials management, relevant skills, and other core degree requirements necessary to assume a supervisory position within the context of Environmental Safety and Health.

**GENERAL EDUCATION REQUIREMENTS (25 Credits):**

	CR	SEMESTER
<b>COMMUNICATIONS:</b> BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
<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, 113, 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 120 or above (except MATH 122, 123)	3	_____
<b>SCIENCE:</b> AST, BIOL, CHEM, EGG 131, 132, ENV, GEOG 103, 104, 117, GEOL, HHP 123B, 124B, PHYS	6	_____
<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 (36 Credits):**

	CR	SEMESTER
<b>ESH 130</b> Introduction to Hazardous Materials Management	3	_____
<b>ESH 201</b> 40 Hour Hazwoper Certification	3	_____
<b>ESH 202</b> Environmental Laws and Regulations	3	_____
<b>ESH 203</b> Sampling, Analysis, Treatment and Disposal	3	_____
<b>ESH 204</b> Environmental Site Assessments	3	_____
<b>ESH 205</b> Transportation of Hazardous Materials	3	_____
<b>ESH 210B</b> Waste Minimization and Recycling	3	_____
<b>ESH 215B</b> Environmental Computer Applications	3	_____
OR		
<b>GIS 109B</b> Introduction to GIS		

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	CR	SEMESTER
<b>Plus 12 credits from the following:</b>		
<b>BIOL 100</b> General Biology for Non-Majors	4	_____
<b>CADD 100</b> Introduction to Computer Aided Drafting	4	_____
<b>CHEM 105</b> Chemistry, Man and Society	3	_____
<b>CHEM 110</b> Chemistry for Health Sciences I	4	_____
<b>CHEM 111</b> Chemistry for Health Sciences II	4	_____
<b>CHEM 121</b> General Chemistry I	4	_____
<b>CHEM 122</b> General Chemistry II	4	_____
<b>EMS 108B</b> Emergency Medical Technician Training	8	_____
<b>ENV 101</b> Introduction to Environmental Science	3	_____
<b>ENV 220</b> Introduction to Ecological Principles	3	_____
<b>ESH 220B</b> Introduction to Wastewater Treatment	3	_____
<b>ESH 225B</b> Ethics and Legal Issues in Environmental Restoration	3	_____
<b>ESH 230B</b> Radiation Health Physics	3	_____
<b>ESH 235B</b> Asbestos Inspection and Abatement	3	_____
<b>ESH 240B</b> Wastewater Treatment I	3	_____
<b>ESH 241B</b> Wastewater Treatment II	3	_____
<b>ESH 242B</b> Wastewater Treatment III	3	_____
<b>ESH 243B</b> Water Treatment Plant Operations	3	_____
<b>ESH 244B</b> Water Distribution I	3	_____
<b>ESH 245B</b> Water Treatment Plant Operations II	3	_____
<b>ESH 246B</b> Water/Wastewater Mathematics I	3	_____
<b>ESH 247B</b> Water/Wastewater Mathematics II	3	_____
<b>ESH 248B</b> Water Quality Analysis and Laboratory	4	_____
<b>ESH 249B</b> Industrial Pretreatment Programs and Inspection	3	_____
<b>ESH 250B</b> Pump Operation and Maintenance	3	_____
<b>ESH 251B</b> Current Issues	3	_____
<b>ET 100B</b> Survey of Electronics	3	_____
<b>FT 101</b> Introduction to Fire Science	3	_____
<b>MT 110B</b> Material Science I (Ferrous and Non-Ferrous)	4	_____
<b>SUR 161</b> Elementary Surveying	3	_____

**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.

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