ENVIRONMENTAL SAFETY AND HEALTH - ENVIRONMENTAL RESOURCE TECHNOLOGY EMPHASIS 30 Credits

CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is an 18-month program that provides students with the opportunity to acquire the knowledge, skills and abilities to obtain employment in the Environmental Safety and Health field. Courses cover such areas as Transportation of Hazardous Materials, Environmental Laws and Regulations and the 40-Hour HAZWOPER OSHA requirement. Classroom and Laboratory course work is accomplished.

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.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

		CR	SEMESTER
ESH 130	Introduction to Hazardous Materials Management	3	_____
ESH 201	40 Hour Hazwoper Certification	3	_____
ESH 202	Environmental Laws and Regulations	3	_____
ESH 203	Sampling, Analysis, Treatment and Disposal	3	_____
ESH 204	Environmental Site Assessments	3	_____
ESH 205	Transportation of Hazardous Materials	3	_____
ESH 210B	Waste Minimization and Recycling	3	_____
ESH 215	Environmental Computer Applications		
OR			
GIS 109B	Introduction to GIS	3	_____
Plus 3 credits from the following:			
BT 161	Elementary Surveying	3	_____
EMS 108B	Emergency Medical Technician Training	8	_____

Continued in next column.

SPECIAL PROGRAM REQUIREMENTS (27 Credits):

Continued from previous column.

		CR	SEMESTER
ENV 101	Introduction to Environmental Science	3	_____
ENV 220	Introduction to Ecological Principles	3	_____
ESH 220B	Introduction to Wastewater Treatment	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 240B	Wastewater Treatment I	3	_____
ESH 241B	Wastewater Treatment II	3	_____
ESH 242B	Wastewater Treatment III	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 249B	Industrial Pretreatment Programs and Inspection	3	_____
ESH 250B	Pump Operation and Maintenance	3	_____
ESH 251B	Current Issues	3	_____
MT 110B	Material Science I (Ferrous and Non-Ferrous)	4	_____

Computation included in ESH 203

Human Relations included in ESH 130

30
Total Credits

ESH C01

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.