

Occupational and Environmental Safety A.A.S.

— Environmental Technology Emphasis

Program Description

This program is designed to prepare the student to compete successfully for positions in the environmental field. The program provides a solid foundation in math and science. This multidisciplinary approach provides students with the knowledge and skills necessary to meet the needs of today's environmental workplace. Topics in the program include: regulatory laws, site assessment, auditing and compliance, soil physics, risk assessment and environmental management. The MATH, CHEM and ENGL courses are foundational to the entire FPST curriculum and are prerequisites for many courses. The MATH, CHEM and ENGL courses should be completed as soon as possible, preferably before the student has completed 25 credit hours in the program.

Technical Occupational Specialty

			32 Credit Hours	Date	Institution
<input type="checkbox"/>	FPST 1113	Introduction to Environmental Science	3		
<input type="checkbox"/>	FPST 1123	Introduction to Environmental Management	3		
<input type="checkbox"/>	FPST 1513	OSHA Regulations and Safety Codes	3		
<input type="checkbox"/>	FPST 1684	Industrial Loss Protection	4		
<input type="checkbox"/>	FPST 1813	Introduction to Environmental Law	3		
<input type="checkbox"/>	FPST 2344	Elements of Industrial Hygiene	4		
<input type="checkbox"/>	FPST 2413	Industrial Hygiene Instrumentation	3		
<input type="checkbox"/>	FPST 2633	Chemistry of Hazardous Material	3		

Select 6 credit hours from the following:

<input type="checkbox"/>	FPST 2223	Introduction to Environmental Policy	3		
<input type="checkbox"/>	FPST 2313	Introductory Environmental Chemistry	3		
<input type="checkbox"/>	FPST 2323	Environmental Site Assessments	3		
<input type="checkbox"/>	FPST 2423	Environmental Auditing and Compliance	3		
<input type="checkbox"/>	FPST 2963	Environmental Risk Assessment	3		

Degree Awarded

Associate in Applied Science

For More Information Contact:

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Associate Professor

Fire Protection and Safety Technology

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Support and Related Courses

			16 Credit Hours	Date	Institution
<input type="checkbox"/>	CHEM 1104	Basic Chemistry	4		
or					
<input type="checkbox"/>	CHEM 1214	Chemistry I	4		
or					
<input type="checkbox"/>	CHEM 1314	General Chemistry I	4		
<input type="checkbox"/>	CIS	Any 3 credit hours of computer science.	3		
<input type="checkbox"/>		Any 9 hours of course work approved by department head	9		

General Education Requirements

			18 Credit Hours	Date	Institution
<input type="checkbox"/>	ENGL 1113	English Composition I	3		
<input type="checkbox"/>	ENGL 2333	Introduction to Technical Report Writing	3		
<input type="checkbox"/>	HIST 1483	U.S. History to 1865	3		
or					
<input type="checkbox"/>	HIST 1493	U.S. History Since 1865	3		
<input type="checkbox"/>	MATH 1513	College Algebra	3		
<input type="checkbox"/>	POLS 1113	American Government	3		
<input type="checkbox"/>		Any 3 hours of course work approved by department head	3		

Total to Graduate

66 Credit Hours

Student Name:	_____
CWID:	_____
Counselor:	_____

FPST 1113 INTRODUCTION TO ENVIRONMENTAL SCIENCE

This course provides an introduction to Environmental Science and treats it as an interdisciplinary study, combining ideas and information from natural sciences (such as biology, chemistry and geology) and social sciences (such as economics, politics and ethics) to present a general idea of how nature works and how things are interconnected. This study of connections in nature examines how the environment is being used and abused, and what individuals can do to protect and improve it for themselves, for future generations and for other living things.

FPST 1123 INTRODUCTION TO ENVIRONMENTAL MANAGEMENT

This course is a technical overview of the history, terminology and environmental impact issues associated with the petroleum industry. This course helps students prepare for the registered environmental manager exam. Prerequisites: FPST 1813 and FPST 2423.

FPST 1513 OSHA REGULATIONS AND SAFETY CODES

A course designed to give the student a working knowledge of the OSHA (Occupational Safety and Health Administration) regulations including interpretation, protest procedures and inspection procedures. Also, the student will gain an understanding of equipment, material and staffing needs in relation to OSHA requirements.

FPST 1684 INDUSTRIAL LOSS PREVENTION

An examination of specific industrial processes, equipment, facilities and work practices to understand potential hazards and techniques for detecting and controlling such hazards. Lab: three hours per week. Prerequisite: FPST 1213 or consent of instructor.

FPST 1813 INTRODUCTION TO ENVIRONMENTAL LAW

A study of environmental laws, statutory rules, regulations and compliances as they apply to industry.

FPST 2344 ELEMENTS OF INDUSTRIAL HYGIENE

A study of toxic or irritating substances, environmental pollution sources and controls, and physical, biological, ergonomic and other occupational stress factors causing employee illness or discomfort. Prerequisite: CHEM 1314 or CHEM 1214 or CHEM 1104.

FPST 2413 INDUSTRIAL HYGIENE INSTRUMENTATION

Studies specific industrial hygiene problems including evaluation, instrumentation, recognition and control of physical exposure, air contaminants, stress, heat, noise and radiation. Lab: two hours per week. Prerequisites: FPST 2344.

FPST 2633 CHEMISTRY OF HAZARDOUS MATERIALS

Basic chemistry of hazardous materials to include fire/safety concerns and techniques to recognize, evaluate and control potential hazards. Lab: two hours per week. Prerequisites: FPST 1213 and CHEM 1314 or CHEM 1214 or CHEM 1104 or consent of instructor.

Select 6 credit hours from the following:

FPST 2223 INTRODUCTION TO ENVIRONMENTAL POLICY

Issues that effect environmental policy are continuing to change at a rapid rate. This course will help the student understand and do research on issues relating to environmental law.

FPST 2313 INTRODUCTORY ENVIRONMENTAL CHEMISTRY

A study of environmental chemistry involving hazardous waste and pollutants as they affect the ecological systems associated with the hydrologic cycles, biosphere and soils.

FPST 2323 ENVIRONMENTAL SITE ASSESSMENTS

Prepares student in the activities required for industries to meet federal compliance standards. Focusing on site assessments and environmental impact studies on construction, remodeling and manufacturing

FPST 2423 ENVIRONMENTAL AUDITING AND COMPLIANCE

Prepares the student to understand the laws, statutes and regulations that are involved in performing and documenting the Environmental Audit. Students are prepared to take the Certified Environmental Auditor Exam upon completion of this course.

FPST 2963 ENVIRONMENTAL RISK ASSESSMENT

A study of environmental risk assessment and its relationship to environmental concerns. Prerequisite: FPST 1813 or department head approval.