

OCCUPATIONAL SAFETY PROGRAM

OVERVIEW OF THE PROGRAM:

The Occupational Safety program prepares competent professionals who serve as valued members of the management, engineering and business team providing solutions to complex Safety/Environmental problems.

This program focuses on principles drawn from engineering technology, health, physics, math, psychology, language and speech. Hands-on applications of these principles are emphasized through preparatory and professional courses. Preparatory courses include math, chemistry, physics, human anatomy, statistics, speech, written composition and psychology. Professional courses include industrial hygiene and toxicology, safety engineering and design, systems safety, safety and environmental law, fire prevention, ergonomics, environmental hazard control, OSHA compliance and program management. Computer skills and experiential learning are heavily emphasized, including laboratory activities, industrial projects and internships. Internships, which provide experiential learning, are required prior to graduation and may be paid or unpaid.

The curriculum is a highly flexible 2 + 2 curriculum. Once the two-year degree is earned, graduates may choose to enter the workforce or to continue their education with two additional years at the baccalaureate level.

Students graduating with an Occupational Safety BS degree from Fairmont State earn the designation as a Graduate Safety Practitioner (GSP) which is recognized by the Board of Certified Safety Professionals (BCSP). Fairmont State's Occupational Safety program is one of only 12 safety BS degrees in the world to offer this graduate designation.

EMPLOYMENT OPPORTUNITIES:

The need for safety professionals will continue to grow 14.3% between 2023-2033. Major employers of our graduates include insurance companies, government entities, state and local agencies, businesses and consulting firms. Increased emphasis on ergonomics, hazardous waste, accident costs, workers' compensation, regulatory compliance and health hazard control will require more professionals in the industry.

The average annual salary of a Certified Safety Professional is about \$120,000.

[FAIRMONTSTATE.EDU/collegeofscitech](https://www.fairmontstate.edu/collegeofscitech)



**FAIRMONT STATE
UNIVERSITY™**
College of Science & Technology



OCCUPATIONAL SAFETY PROGRAM

BACHELOR OF SCIENCE IN OCCUPATIONAL SAFETY

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL 1101 WRITTEN ENGLISH I	3
MATH 1410 APPLIED TECHNICAL MATH I OR MATH 1430/1530 ALGEBRA	3-4
SCIE 1100 HUMAN BIOLOGY	4
CHEM 1101 GENERAL CHEMISTRY OR CHEM 1105	4-5
SFTY 1100 SAFETY & ENVIRON. COMPONENTS OF INDUSTRY	3

TOTAL 17-18

FRESHMAN SECOND SEMESTER

ENGL 1103 TECHNICAL REPORT WRITING	3
MATH 1520 APPLIED TECHNICAL MATH II OR MATH 1540 TRIGONOMETRY	3
SFTY 1150 SAFETY MGT. & CONCEPTS IN ACCIDENT PREV	3
CHEM 1102 GENERAL CHEMISTRY II OR CHEM 2200	4
COMM 2202, 2200, OR 2201	3
SOAR 1100 FIRST YEAR SEMINAR	1

TOTAL 17

SOPHOMORE FIRST SEMESTER

PHYS 1101 INTRODUCTION TO PHYSICS I OR PHYS 1001	4
SFTY 2250 SAFETY LAW & COMPLIANCE	3
SFTY 2291 ENVIRONMENTAL ENGR. TECH.: HAZ. WASTE	4
TECH ELECTIVE	2

TOTAL 13

SOPHOMORE SECOND SEMESTER

BIOL 1180 HUMAN ANATOMY & PHYSIOLOGY	3
BIOL 1181 HUMAN ANATOMY & PHYSIOLOGY LAB	1
PHYS 1102 INTRODUCTION TO PHYSICS II OR PHYS 1002	4
SFTY 2290 INDUSTRIAL HYGIENE AND TOXICOLOGY	4
SFTY 2280 CONSTRUCTION SAFETY & LAW	3

TOTAL 15

JUNIOR FIRST SEMESTER

SFTY 3300 INDUSTRIAL HYGIENE APPLICATIONS AND PRACTICES	4
SFTY 3360 FIRE PREVENTION	3
MECH 1100 STATICS	3
PSYC 1101 (RECOMMENDED)	3
CORE CURRICULUM	3

TOTAL 16

JUNIOR SECOND SEMESTER

MANF 2250 TOTAL QUALITY & SPC	3
SFTY 3310 ERGONOMICS & HUMAN FACTORS	3
SFTY 3355 AIR AND WATER POLLUTION	3
MATH 1550 APPLIED STATISTICS	3
MANF 2205 ENGINEERING ECONOMY	3

TOTAL 15

SENIOR FIRST SEMESTER

SFTY 4400 SAFETY ENGINEERING DESIGN	3
SFTY 4415 SAFETY INTERNSHIP	3
SFTY 4420 SYSTEM SAFETY AND MANAGEMENT	3
CORE CURRICULUM	3
TECH ELECTIVE	3

TOTAL 15

SENIOR SECOND SEMESTER

SFTY 4480 APPLICATION OF SAFETY STRATEGIES	4
BSBA 3306 BUSINESS LAW I	3
CORE CURRICULUM	3
TECH ELECTIVE	3

TOTAL 13

Please note:

- The Occupational Safety minor (not for Occupational Safety majors) requires 23-24 credit hours. The courses in maroon text are included in the Occupational Safety minor as well as one minor elective (3-4 credit hours).
- The upper level chemistry courses are recommended for students interested in obtaining their Certified Industrial Hygienist Certification.



**FAIRMONT STATE
UNIVERSITY™**
College of Science & Technology

FAIRMONTSTATE.EDU/collegeofscitech

CONTACT INFORMATION

Abby Chapman
Department of Engineering Technology
415 Engineering Technology
Abby.Chapman@fairmontstate.edu
Phone: (304) 367-4633