



Environmental Science, Safety, and Health Associate of Applied Science (A.A.S.)

2018–2019

DESCRIPTION:

The Environmental Science, Safety and Health A.A.S. degree program provides students with a strong foundation in the technical skills necessary for careers in the environmental field/industry and in occupational safety and health. The degree has a diverse curriculum which includes many science courses as well as technical courses to prepare students for a variety of jobs. In addition to educating technicians with entry-level training, the program provides opportunities for individuals seeking career changes, continuing education, and skills enhancement. For more information, see csc.c.edu/essh.

ADMISSION REQUIREMENTS:

This degree program has a non-competitive, non-selective admission and can be started in any semester.

ONGOING REQUIREMENTS:

The ESSH A.A.S. degree program has no specific ongoing requirements other than the minimum GPA required by the college.

OPPORTUNITIES FOR GRADUATES:

Career:

The job market for environmental and safety technicians continues to be strong, and the demand for technicians capable of performing tasks in this field is increasing. Graduates of the Environmental, Science, Safety and Health A.A.S. degree program work in a wide variety of settings including environmental consulting firms, environmental laboratories, wastewater and water treatment facilities, lead and asbestos abatement contractors, industrial/manufacturing facilities, construction companies, governmental agencies, and other organizations requiring individuals to work in environmental or safety-related positions.

Transfer:

Graduates with the Environmental Science, Safety & Health A.A.S. degree have successfully transferred to four year institutions across the country. Many ESSH A.A.S. students transfer to The Ohio State University to complete one of the baccalaureate degree programs in the School of Environment and Natural Resources. In addition, articulation agreements exist for the ESSH A.A.S. degree for bachelor's degrees in Environmental Management (Columbia Southern University-online), Environmental Health Science (Ohio University), Technical and Applied Studies (Ohio University), B.S. degree for Occupational Hygiene and Safety (Ohio University), and Applied Management (Franklin University).

DEGREE REQUIREMENTS (ENVIRONMENTAL SCIENCE, SAFETY, AND HEALTH A.A.S.):

FIRST SEMESTER

Course	Term	Credits	Milestones/Progress Check
ENGL 1100 Composition I	AU/SP/SU	3	
STAT 1350 Elementary Stats or MATH 1148 College Algebra	AU/SP/SU	3 or 4	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
ESSH 1101 Intro to Environ. Science, Safety & Health	AU/SP/SU	3	
ESSH 1130 - Environmental Laws & Regulations	AU	3	
Semester Credits		13-14	

SECOND SEMESTER

Course	Term	Credits	Milestones/Progress Check
CHEM 1111 Elementary Chemistry I	AU/SP/SU	4	
GEOL 1101 Introduction to Earth Science or GEOL 1121 Physical Geo	AU/SP/SU	4	
ESSH 1140 Industrial/Municipal Pollution Control	SP	3	
ESSH 1580 Environmental Site Assessment	AU/SP	2	
ESSH 2120 Environmental Aspects of Soils	AU/SP/SU	3	
Semester Credits		16	

THIRD SEMESTER

Course	Term	Credits	Milestones/Progress Check
COMM 2204 Technical Writing	AU/SP/SU	3	
Basic Elective (CSCI 1100, ITST 1101, BOA 1102 or BOA 1104)	AU/SP/SU	1-3	
ESSH 2220 Drinking Water Treatment (SU) or ESSH 2230 Wastewater	SU or AU	2	<ul style="list-style-type: none"> • Successful completion of ESSH 2520 meets HAZWOPER 40 Hour Certification • Students completing ESSH 2220 or 2230 are recommended to take the Ohio EPA Class I Water or Wastewater Certification exam
ESSH 2520 Health & Safety Training for Haz. Waste Oper.	AU/SP/SU	2	
Semester Credits		8-11	

FOURTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
HUM Elective (select from approved GE HUM list)	AU/SP/SU	3	
CMGT 1135 Safety & Loss Prevention	AU/SP/SU	2	
ESSH 1650 OSHA 30 Hr Construction Safety & Health or ESSH 1700 OSHA 30 Hr Gen Ind Safety & Health (AU)	AU/SP/SU AU	2	<ul style="list-style-type: none"> • Successful completion of ESSH 1650 or 1700 fulfills the 30 hour OSHA Outreach Training credential.
ESSH 2111 Hazardous Materials Management	AU/SP	3	
ESSH 2240 Environmental Hydrology	AU	3	
ESSH 2500 Environmental Sampling	AU	3	
Semester Credits		16	

FIFTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
SBS elective Refer to approved Gen. Ed. SBS list	AU/SP/SU	3	
ESSH 2400 Environmental Analytical Methods	SP	2	<ul style="list-style-type: none"> • 2900 Field Experience is an elective course providing students credit for employment or internship in the environmental or safety field.
ESSH 2350 Applied Environmental Engineering	SP	2	
ESSH 2550 Air Pollution & Monitoring	SP	3	
Technical Elective - Refer to approved list	AU/SP/SU	2	
Semester Credits		12	
Total		65-69	

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester
Requirements subject to change.