

Occupational and Environmental Health, MS

Requirements

The Master of Science in occupational and environmental health requires 38–43 s.h. of graduate credit. The degree program is offered with three options—the MS in occupational and environmental health (38 s.h.) without a subprogram, the MS with an agricultural safety and health subprogram (42 s.h.), or the MS with an industrial hygiene subprogram (43 s.h.).

MS Without Subprogram

The Master of Science with a major in occupational and environmental health without a subprogram requires a minimum of 38 s.h. and includes the following coursework.

Core Courses

Course #	Title	Hours
All of these (16 s.h.):		
OEH:4240	Global Environmental Health	3
OEH:5010	Occupational and Environmental Health Seminar	1
OEH:5620	Occupational Health	3
BIOS:4120	Introduction to Biostatistics	3
CPH:6100	Essentials of Public Health	2
CPH:7270	Principles of Scholarly Integrity: Public Health	1
EPID:4400	Epidemiology I: Principles	3
At least 6 s.h. from these:		
OEH:4260	Global Water and Health	3
OEH:4310	Occupational Ergonomics: Principles	3
OEH:4510	Injury and Violence Prevention	3
OEH:5410	Occupational Safety	3
OEH:6110	Rural Health and Agricultural Medicine	3
OEH:6710	Human Toxicology and Risk Assessment	3

Electives

Credit earned in elective coursework and the thesis completes the 38 s.h. required for the degree. Students work with their advisor to select courses appropriate for their professional goals.

Thesis

A thesis is required. Students may earn a maximum of 6 s.h. for the thesis.

Course #	Title	Hours
OEH:7000	Thesis/Dissertation	arr.

MS With Agricultural Safety and Health Subprogram

The program prepares students for careers in education, health care, insurance, and agribusiness as specialists in agricultural safety and health.

The Master of Science with a major in occupational and environmental health with an agricultural safety and health subprogram requires a minimum of 42 s.h. and includes the following coursework.

Core Courses, Agricultural Safety and Health Subprogram

Course #	Title	Hours
All of these (29 s.h.):		
OEH:4240	Global Environmental Health	3
OEH:5010	Occupational and Environmental Health Seminar	1
OEH:5410	Occupational Safety	3
OEH:5620	Occupational Health	3
OEH:6110	Rural Health and Agricultural Medicine	3
OEH:6120	Current Topics in Agriculture and Rural Health (taken three times for 1 s.h. each)	3
OEH:6710	Human Toxicology and Risk Assessment	3
OEH:7040	Preceptorship in Occupational and Environmental Health	1
BIOS:4120	Introduction to Biostatistics	3
CPH:6100	Essentials of Public Health	2
CPH:7270	Principles of Scholarly Integrity: Public Health	1
EPID:4400	Epidemiology I: Principles	3

Electives, Agricultural Safety and Health Subprogram

Credit earned in elective coursework and the thesis completes the 42 s.h. required for the degree. Students work with their advisor to select courses appropriate for their professional goals.

Recommended Elective Courses

This is a recommended list of elective coursework; however, any occupational and environmental health course (prefix OEH) may be taken as an elective.

Course #	Title	Hours
OEH:4260	Global Water and Health	3
OEH:4310	Occupational Ergonomics: Principles	3
OEH:4510	Injury and Violence Prevention	3
OEH:6420	Methods in Exposure Science	3
OEH:6431	Assessing Noise Hazards	1
OEH:6432	Assessing Nonionizing Radiation Hazards	1
OEH:6433	Assessing Ionizing Radiation Hazards	1

OEH:6440	Control of Occupational Hazards	3
OEH:6520	Injury Epidemiology	3
OEH:6720	Advanced Toxicology	4
CPH:4200	Agriculture, Food Systems, and Sustainability	3

Approved Elective Courses From Other Departments

Courses not on this list may be used as elective credit with advisor approval.

Course #	Title	Hours
CBH:4105	Introduction to Health Promotion and Disease Prevention	3
CBH:5235	Community-Based Participatory Research	3
CBH:5305	Evaluation: Approaches and Applications	3
CBH:6220	Health Communication Campaigns	3
EPID:5600	Introduction to Epidemiology Data Management and Analysis	3
EPID:6400	Epidemiology II: Advanced Methods	4
ISE:3400	Human Factors	3

Thesis, Agricultural Safety and Health Subprogram

A thesis is required. Students may earn a maximum of 4 s.h. for the thesis.

Course #	Title	Hours
OEH:7000	Thesis/Dissertation	arr.

MS With Industrial Hygiene Subprogram

The program prepares students for careers in industrial hygiene as well as the broad field of occupational and environmental health. Career opportunities are available in health and safety departments of industries; in consulting firms; in academic institutions; and in local, state, and federal public health agencies.

Students choose either the thesis (research option) or nonthesis (internship option). Those that select the thesis option conduct a research project and write a thesis. Those that select the nonthesis option complete an internship.

The Master of Science with a major in occupational and environmental health with an industrial hygiene subprogram requires a minimum of 43 s.h. and includes the following coursework.

Required Courses, Industrial Hygiene Subprogram

Course #	Title	Hours
All of these (22 s.h.):		
OEH:5010	Occupational and Environmental Health Seminar	1
OEH:5620	Occupational Health	3

OEH:6420	Methods in Exposure Science	3
OEH:6440	Control of Occupational Hazards	3
OEH:6710	Human Toxicology and Risk Assessment	3
BIOS:4120	Introduction to Biostatistics	3
CPH:6100	Essentials of Public Health	2
CPH:7270	Principles of Scholarly Integrity: Public Health	1
EPID:4400	Epidemiology I: Principles	3
At least 12 s.h. from these:		
OEH:4240	Global Environmental Health	3
OEH:4310	Occupational Ergonomics: Principles	3
OEH:4510	Injury and Violence Prevention	3
OEH:5410	Occupational Safety	3
OEH:6431	Assessing Noise Hazards	1
OEH:6432	Assessing Nonionizing Radiation Hazards	1
OEH:6433	Assessing Ionizing Radiation Hazards	1
OEH:6450	Aerosol Technology	3
OEH:6520	Injury Epidemiology	3

Thesis or Nonthesis Option, Industrial Hygiene Subprogram

Thesis (Research Option)

Research Project and Thesis

Completion of a research project and thesis is required. A maximum of 6 s.h. is allowed for thesis credit in OEH:7000.

Course #	Title	Hours
OEH:7000	Thesis/Dissertation	arr.

Electives, Industrial Hygiene Subprogram

Thesis option students complete additional elective coursework to earn at least 43 s.h. required for the major. Students work with their advisor to select courses most appropriate for their professional goals.

Nonthesis (Internship Option)

Internship and Internship Report

Completion of an internship and an internship report is required. A maximum of 3 s.h. is allowed for internship credit in OEH:7050. Students are required to complete a minimum 150-hour internship.

Course #	Title	Hours
OEH:7050	Occupational and Environmental Health Internship	0,3

Electives, Nonthesis

Nonthesis option students complete additional elective coursework to earn at least 43 s.h. required for the major. Students work with their advisor to select courses most appropriate for their professional goals.