



**Environment, Safety & Health  
(ESH)**

**Oregon State University  
MPH - ESH Track  
Student Handbook**

**2011-2012**





**2011-2012 OMPH Environment, Safety Health Track  
Student Handbook for Oregon State University**

**Table of Contents**

<b>OSU Environment, Safety Health Track Specific Requirements</b>	<b>4</b>
A. ESH Track Competencies	4
B. ESH Degree Requirements	4
C. ESH Sample Course Sequence	7
D. Field Experience	8
E. ESH Minimum Standards for Field Experience	8
F. ESH Culminating Experience	9
 <b>Environment, Safety &amp; Health Student Advising Sheet</b>	 <b>11-12</b>



**2011-2012 OMPH Program Student Handbook**  
**Oregon State University**  
Environment, Safety & Health Track

**I. IMPORTANT:** In addition to this handbook, OSU MPH ESH track students *must reference* the Master of Public Health Oregon State University Student General Handbook for information pertaining to ALL students.

**II. OSU Environment, Safety Health (ESH) Track Specific Requirements**

**A. ESH Track Competencies**

The goal of the Environment, Safety, and Health Track is to train public health professionals in how exposures to hazardous chemical, physical, or biological agents affect human health, the environment and organizational resources. This track prepares students to control such hazards and comply with the myriad of environmental, safety and health legislation.

1. Identify and assess the major environment, safety, and health hazards that impact workers and the general population.
2. Communicate culturally appropriate strategies for preventing and controlling environment, safety and health hazards.
3. Conduct environment, safety and health applied research.
4. Analyze the interrelationship among the organization, delivery, and financing of environment, safety and health-related services.
5. Apply environment, safety and health knowledge and skills in practical settings.
6. Adhere to established ESH professional ethical standards and practices.

**B. ESH Track Degree Requirements**

Completing the MPH degree in the **Environment, Safety & Health Track** at OSU requires:

1. A total of at least 59 approved credit hours. These credits include:

OMP	H Core Courses	16
	Required Track Courses	25
	Area of Specialization/Electives	12
	Field Experience (Internship)	6
2. Students must maintain a minimum 3.0 (B) grade point average in their graduate courses. Additionally, students may not receive lower than a B- in any required course (core or track required courses). If lower than a B- is received then the student will need to retake the course.
3. Successful completion of field experience.
4. Successful completion of final oral exam.

The following courses are required in the Environment, Safety & Health Track:

Track Competency	Courses	Links to Program Learning Competencies
1. Identify and assess the major environment, safety, and health hazards that impact workers and the general population.	H 540 Environmental Health I (3) H 541 Environmental Health II (3) H 546 Industrial Hygiene Instrumentation (3) H 548 Public Health Toxicology and Risk Assessment (3) H 588 Occupational Safety and Health (3) H 595 Design for Environment, Safety and Health (3) H 514 ESH Seminar (1) H 510 Internship (6) Final Oral Exam <b>H 512 Environmental and Occupational Health (3)</b> <b>H 524 Introduction to Biostatistics (4)</b> <b>H 525 Principles and Practices of Epidemiology (3)</b>	PLC #1 PLC #2 PLC #3 PLC #6
2. Communicate culturally appropriate strategies for preventing and controlling environment, safety and health hazards.	H 540 Environmental Health I (3) H 595 Design for Environment, Safety and Health (3) H 512 Environmental and Occupational Health (3) H 548 Public Health Toxicology and Risk Assessment H 510 Internship (6) Final Oral Exam <b>H 571 Principles of Health Behavior</b>	PLC #1 PLC #2 PLC #4 PLC #6
3. Conduct environment, safety and health applied research.	H 526 Epidemiologic Methods (3) H 541 Environmental Health II (3) H 548 Public Health Toxicology and Risk Assessment (3) H 510 Internship Final Oral Exam <b>H 525 Principles and Practices of Epidemiology (3)</b> <b>H 512 Environmental and Occupational Health (3)</b>	PLC #1 PLC #2 PLC #3 PLC #4 PLC #5 PLC #6
4. Analyze the interrelationship among the organization, delivery, and financing of environment, safety and	H 585 Environment, Safety & Health Policy and Law (3) H 595 Design for Environment, Safety and Health (3) Final Oral Exam	PLC #3

health-related services.	<b>H533 Health Systems Organization (3)</b> <b>H524 Introduction to Biostatistics (4)</b>	
5. Apply environment, safety and health knowledge and skills in practical settings.	H 540 Environmental Health I (3) H 510 Internship (6) Final Oral Exam	PLC #4 PLC #5 PLC #6 PLC #7
6. Adhere to established ESH professional ethical standards and practices.	<b>H 525 Principles and Practices of Epidemiology (3)</b> H 510 Internship (6) H 595 Design for Environment, Safety and Health (3 credits) Final Oral Exam	PLC #5

Note: courses in **bold** are OMPH core courses.

### **DEGREE REQUIREMENTS Environment, Safety & Health Track (59 credits)**

#### **MPH Core Courses (16 credits)**

- H 512 Environmental and Occupational Health (3 credits)
- H 524 Introduction to Biostatistics (4 credits)
- H 525 Principles & Practices of Epidemiology (3 credits)
- H 533 Health Systems Organization (3 credits)
- H 571 Principles of Health Behavior (3 credits)

#### **Environment, Safety and Health Required Track Courses (25 credits)**

- H 514 ESH Seminar (1 credit)
- H 526 Epidemiologic Methods (3 credits)
- H 540 Environmental Health I (3 credits)
- H 541 Environmental Health II (3 credits)
- H 546 Industrial Hygiene Instrumentation (3 credits)
- H 548 Public Health Toxicology and Risk Assessment (3 credits)
- H 585 Environment, Safety and Health Policy and Law (3 credits)
- H 588 Occupational Safety and Health (3 credits)
- H 595 Design for Environment, Safety and Health (3 credits)

#### **Area of Specialization (minimum of 12 credits)**

All ESH students are required to select an area of specialization and take additional coursework in that area. Students should consult with their advisor about areas of specialization, career interests, and specific courses that would enable them to develop the specialization. For example, students may develop a specialization in epidemiology, toxicology, water resources, food safety, human factors engineering, health promotion, biostatistics, or international health. Because specialization courses are frequently offered outside the School or College, ESH students will often take courses from the departments of Environmental and Molecular Toxicology, Geosciences, Business, Engineering, and Food Science and Technology.

#### **Internship (6 credits)**

H 510 Internship/organizational experience (6 credits)

**C. ESH Sample Course Sequence**

It is recommended that OMPH courses be taken in a particular sequence to maximize the educational experience. Always consult your advisor regarding your program of study to determine the schedule that fits best for you. The following shows a typical recommended sequence of courses.

**Recommended Course Schedule for classes taken at OSU in the ESH Track**

Year	Fall	Winter	Spring	Summer
First	<b>H 524 Introduction to Biostatistics</b> <b>H 512 Environmental and Occupational Health</b> <b>H 525 Principles and Practice of Epidemiology</b> H 588 Occupational Safety and Health	H 541 Environmental Health II <i>(not a sequence with H 540).</i> H 514 ESH Seminar (1 credit) H 526 Epidemiologic Methods Courses in Specialization	H 540 Environmental Health I H 585 Environment, Safety and Health Policy and Law Courses in Specialization	TBA
Second	<b>H 533 Health Systems Organization</b> <b>H 571 Principles of Health Behavior</b> H 548 Public Health Toxicology Courses in Specialization	H 595 Design for Environment, Safety and Health Courses in Specialization	H 510 Internship H 546 Industrial Hygiene Instrumentation	TBA

Note: Courses in bold are OMPH core courses.

**H 510 Internship (6 credits): Must be taken after completion of both MPH and Track Core classes.**

There are no general elective credits in the ESH Track. Students will take courses in their area of specialization. This is not an exhaustive list of graduate courses in the College. Please check with your advisor about other elective courses in the College and in other departments on campus.

## D. Field Experience

### Field Experience Information and Orientation

The OMPH Program Office has a database that contains data on field experience sites utilized by students. The database contains information about field experience sites including: agency background information, contact information, specialty track(s) served, and the number of students placed each year. Students at all of the collaborative universities can request access to this database from the Program Office by contacting the Program Coordinator, Alison Schneiger at [alison@oregonmph.org](mailto:alison@oregonmph.org).

Links to the Field Experience guidelines and orientation presentations for both students and preceptors can be found on the OMPH website at:  
<http://www.oregonmph.org/register/register.html#Field>

### Program Minimum Standards for Field Experiences

In addition to meeting track field experience criteria, all OMPH field/organizational experiences must meet the following:

- Precepted experience: Preceptor may not be program faculty member or advisor; Preceptors must have public health credentials or appropriate health related credentials and experience to provide appropriate mentorship/supervision in your learning experience. All site preceptors and sites will be assessed on a case by case basis.
- Competency-based, meeting track and student-specified competencies
- Competencies and field experience site/work scope are pre-approved by advisor
- Evaluated by both student and preceptor, demonstrating competency mastery
- Community or population focus (e.g., public health agency, health care delivery, reimbursement, community organizing, health voluntary, population-based research, worksite setting)
- Minimum of 200 practice hours, 6 units.

## E. ESH Track Minimum Standards for Field Experience

In addition to meeting the OMPH Program Minimum Standards for field experiences, internships for students in the Environment, Safety, & Health Track must meet the following requirements:

- Students must complete all required courses before beginning an internship or have written consent from their faculty advisor.
- Students must complete an internship application, which must be approved by their major professor/advisor prior to the start of placement.
- As part of their internship applications:
  - Students must develop appropriate learning competencies for the internship and document them in the internship application.

- Students must describe how their area of emphasis, internship, and career objectives are connected.
- Students must be able to demonstrate that the placement is competency-based including opportunities to develop Track Competencies #1-6.
- Students may seek placements in public and/or private sector organizations with qualified preceptors in the area of Environment, Safety, & Health.
- Students must submit both bi-weekly progress reports and a final summary of their work in the practice setting. These reports must be accepted by students' faculty advisors.
  - In their final reports, students must describe and evaluate the degree to which they demonstrated their individual and ESH Track learning competencies during their practica.
- Preceptors must evaluate the degree to which students accomplished the stated individual and ESH Track learning competencies, using a Likert-scale instrument provided in the MPH Student General Handbook. This evaluation form must be submitted to the student's faculty advisor.

## **F. Culminating Experience in ESH Track - Final Oral Exam**

Upon completion of all required coursework and the internship experience, all MPH students must schedule a final oral examination. (Note: All required coursework and the internship must be completed before taking the exam.) Students must receive approval to take the exam from their academic advisors. All deviations from policy must be approved by the Track Coordinator (OSU).

### *Purpose*

The Graduate School at Oregon State University requires all students in a graduate degree-seeking program to participate in a final oral examination. The purpose of the oral examination is to provide students with an opportunity to integrate their educational experiences and draw from coursework and the internship to respond to substantive, methodological, and theory-based questions. In conjunction with the internship, the exam is designed to test the Environment, Safety, and Health track competencies and to provide the student an opportunity to assess his or her mastery of the competencies.

### *Format*

The examination will last approximately 2-3 hours. Student will give an oral presentation of their internship experience and committee members and guests will be present. Students are responsible to provide committee members a copy of their written report one week in advance of the final oral exam. At the conclusion of the general presentation all visitors will be asked to leave and the oral examination will continue with only the committee members and the student present. Questions will focus on the program, internship, and track competencies.

### *Committee*

The exam committee will be comprised of three faculty members, including the student's advisor and two additional members who are faculty in the College. Students should discuss the procedure for creating committees with their faculty advisor, graduate coordinator, or the Track Coordinator.

### *Assigning Grade*

Students will be assigned a "pass" or "fail" grade. A grade of "pass" means that the student has responded to the exam questions satisfactorily. If the student receives a grade of "fail" on their examination, faculty must provide specific comments, feedback, and suggestions for improvement. Failure of the examination may result in additional coursework, remedial assignments or readings, prior to retaking the examination. Students will be allowed \*one\* retake of the examination, which will include new questions and follow the same procedures as above. The examination may be retaken no sooner than 10 weeks (one full academic term) after the date of the failed exam.

If the student fails the second oral examination, the student will be terminated from the OMPH program.



**III. Environment, Safety & Health Student Advising Sheet**

**OSU Student Advising Sheet  
Environment, Safety & Health Track**

**Student** \_\_\_\_\_ **Today's Date** \_\_\_\_\_

**Date Entered School** \_\_\_\_\_ **Expected Graduation** \_\_\_\_\_

**Address** \_\_\_\_\_ **Phone** \_\_\_\_\_

**Email** \_\_\_\_\_ **ID#** \_\_\_\_\_

**Oregon MPH Core Courses (16 credits)**  
**Track Required Courses (25 credits)**  
**Emphasis Area Courses (12 credits)**  
**Internship (6 credits)**  
**Total: 59 credits**

<b>MPH Core Requirements (16)</b>	Term	Grade
H 525 Principles and Practices of Epidemiology (3 credits)		
H 524 Intro to Biostatistics (4 credits)		
H 533 Health Systems Organization (3 credits)		
H 571 Principles of Health Behavior (3 credits)		
H 512 Environmental and Occupational Health (3 credits)		
<b>Total</b>	_____	

<b>ESH Track Required Courses (25)</b>	Term	Grade
H 514 ESH Seminar (1 credit)		
H 526 Epidemiologic Methods (3 credits)		
H 540 Environmental Health I (3 credits)		
H 541 Environmental Health II (3 credits)		
H 546 Industrial Hygiene Instrumentation (3 credits)		
H 548 Public Health Toxicology and Risk Assessment (3 credits)		
H 585 Environment, Safety and Health Policy and Law (3 credits)		
H 588 Occupational Safety and Health (3 credits)		
H 595 Design for Environment, Safety and Health (3 credits)		
<b>Total</b>	_____	
<b>H 510 Internship/Field Experience (6 credits)</b>	<b>Total</b>	_____

**Program Total** \_\_\_\_\_

**List of Specialization courses completed:**

---

---

---

---

---

**Please note any special arrangements where course substitutes have been approved.  
Provide details:**

---

---

---

---

---



# NOTES