

Industrial Hygiene (MSPH)

The field of industrial hygiene plays an important role in the protection of worker health through workplace assessment and interventions. The training in industrial hygiene is designed to build on the basic skill of engineers and scientists so that they will be able to anticipate, recognize, evaluate, and control hazards in the work place. The development of research skills is also a critical component of the program. The curriculum includes the public health core courses, and program courses relating to occupational diseases, exposure assessment, control measures, and assessment of risk. Graduates are expected to contribute to worker health through their ability to gather data, form opinions, recommend solutions and interact with management, employees, and the community in implementing the solutions. Students will have the opportunity to expand their technical base through electives in the areas of environmental health, industrial safety, risk management, and ergonomics. It is expected that the students will pursue professional certification. The MSPH in Industrial Hygiene is accredited by the Related Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET).

In addition to the overall [Master in Public Health*](#) degree competencies, *Industrial Hygiene* graduates will be able to:

1. Recognize health hazards that cause illness and injury associated with occupations;
2. Apply basic scientific and engineering principles to anticipate and identify actual and potential health hazards in the workplace;
3. Interpret literature and incorporate this knowledge into the evaluation and management of occupational health hazards;
4. Apply the principles of engineering in the design of appropriate controls for workplace health hazards;
5. Evaluate need, recommend, maintain, and manage the use of appropriate types of personal protective equipment for control of worker exposures;
6. Conceptualize, develop, manage, and evaluate health programs in industry and elsewhere;
7. Communicate verbally and in writing research methods, results, conclusions, and implications as demonstrated through the preparation and defense of a thesis;
8. Communicate verbally and in writing to professional peers, labor, management, and diverse community populations, the nature, risks, and remediation of occupational health hazards; and
9. Interpret and assure compliance with applicable government regulations and national standards for good work practices related to occupational safety and health.

**The MSPH in Industrial Hygiene is a professional degree thus includes the same core degree competencies as our MPH.*

Prerequisites

- Public health course prerequisites: None
- Suggested/preferred undergraduate majors: Science or engineering.
- Prerequisite undergraduate courses: No specific courses, however 63 credit hours of science, mathematics, engineering and technology with at least 15 credit hours in upper division classes.
- In addition, students must have at least 21 credit hours in communications, humanities and social sciences.
- Work experience: None required; however, occupational health related work experience is beneficial.
- Minimum undergraduate GPA: Upper division GPA 3.0
- Verbal GRE score: minimum 450

- Quantitative GRE score: minimum 550
- Other criteria: Three letters of recommendation.

Special Option for Students in Industrial Hygiene MSPH

Students in Industrial Hygiene must take the Comprehensive Core Exam. However, they may elect to exempt the Concentration Exam after successfully passing one of the following:

- American Board of Industrial Hygiene’s certification exam (CIH)
- Board of Certification for Safety Professionals (CSP core exam)

Students must bring a copy of their certification of passing the exam to their advisor and request that the advisor send a memo and a copy of the aforementioned certification to the College Dean for Academic and Student Affairs requesting a waiver of the Concentration Exam. Once approved, this memo and the copy of the certification will be forwarded to the student’s file.

Additional Program Information

- Supervised Field Experience:
 - Students with little or no professional experience: 3 hours minimum
 - Students with relevant professional experience (Full-time employment in the industrial hygiene field for a minimum of 1 year, or equivalent part-time experience): 1 hours minimum
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- Examples of common elective options:
 - PHC 6303 Community Air Pollution
 - PHC 6350 Occupational Health Risk Assessment
 - PHC 6351 Occupational Health
 - PHC 6422 Environmental Health Law (2)
 - PHC 6364 Industrial Hygiene Aspects of Plant Operations (2)
 - PHC 6313 Indoor Environmental Quality (2)
 - PHC 6306 Radiation Health Principles (2)
 - EIN 6216 Occupational Safety Engineering
 - PHC 7935 Biological Monitoring in Environmental Health (2)
 - PHC 7368 Aerosol Technology in IH (2)
 - EIN 6215 Engineering System Safety
 - PHC 7317 Risk Communication (2)
 - PHC 7935 Physiology Topics for Environmental and Occupational Health Professionals (2)
 - PHC 6369 Industrial Toxicology (2)
 - PHC 6354 Safety and Health Administration (2)
 - PHC 6051 Biostatistics II (Because this is a practice degree, Biostatistics II is not required.)

Additional Links

- [College Master of Science in Public Health degree requirements](#)
- [Department Specific Guidelines](#) for Special Project, Field Experience, Comprehensive Exam
- [Academic and Student Affairs](#): Registration, Academic Procedures, etc.
- [Tuition and Financial Aid](#)
- [College Admission Requirements](#)
- [Course Descriptions](#)

College of Public Health - Program Curriculum Check Sheet						
Name:			Dept:	EOH		
Advisor:			Degree:	MSPH		
Semester/Year Accepted:			Concentration:	Industrial Hygiene		
Any grade below a C (C- to F) is required to be retaken. The grade will be included in the student's GPA.						
College Core Courses			Total Needed	15	Grade	Term/Year Taken
PHC	6000	Epidemiology	3			
PHC	6050	Biostatistics I	3			
PHC	6102	Principles of Health Policy and Management	3			
PHC	6357	Environmental and Occupational Health	3			
PHC	6410	Social and Behavioral Sciences Applied to Health	3			
During 2nd semester meet with advisor and begin planning field experience. See http://health.usf.edu/publichealth/academicaffairs/fe/						
Required Concentration Courses			Total Needed	22		
PHC	6356	Industrial Hygiene	2			
PHC	6358	Industrial Hygiene – Physical Agents	2			
PHC	6310	Environmental Occupational Toxicology	3			
PHC	6361	Industrial Ergonomics	2			
PHC	6365C	Analytical Method in Industrial Hygiene I	2			
PHC	6366C	Analytical Method in Industrial Hygiene II	2			
PHC	6367	Control Aspects of Industrial Hygiene	2			
PHC	6423	Occupational Health Law	2			
PHC	6360	Safety Management Principles and Practices	2			
PHC	6362	Industrial Ventilation	2			
PHC	6930	Public Health Seminar	1			
Electives (See notes on previous page)			Total Needed	5		
Culminating Experiences			Total Needed			
PHC	6945	Supervise Field Experience (1-12 credits, see notes on page 1)	1-12			
PHC	6971	Thesis	6			
		Comprehensive Exam* (no credit, 2 credit hour enrollment required)	0			
Minimum 48 credit hours (not including Field Experience)			Total GPA Hours			GPA
			Total Hours Attempted			

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The College Reserves All Rights to Repeal And/or Modify

* See special option for students in Industrial Hygiene MSPH program on preceding page.