

Educational Objectives, Student Outcomes, and Enrollment and Graduation Figures (through May 2020).

Educational Objectives – to produce graduates who will, within a few years of graduation:

- A. Demonstrate a high level of technical and scientific competence in the application of fundamentals principles and the practice of industrial hygiene addressing the health of workers and the community
- B. Address occupational health issues in business, government, education/research, or other work environments
- C. Communicate and interact effectively with technical and non-technical audiences
- D. Integrate ethical and social issues and responsibilities in industrial hygiene practice
- E. Work individually or on teams to critically analyze and address complex problems in occupational health
- F. Recognize that the practice of IH requires ongoing learning, and undertake appropriate activities to address this need.

Student Outcomes of the Industrial Hygiene Curriculum:

1. Anticipate and recognize agents, factors, and stressors generated by and/or associated with defined sources, unit operations, processes, and work tasks
2. Describe qualitative and quantitative aspects of generation of agents, factors, and stressors
3. Understand the physiologic and toxicological interactions of physical, chemical, and biological, agents, as well as ergonomic factors, with biological systems and the potential effects of occupational and environmental contaminants on the human body
4. Evaluate qualitative and quantitative aspects of exposure assessment, dose-response, and risk characterization
5. Properly interpret results from epidemiologic and toxicological studies for the evaluation of health risks associated with occupational and environmental exposures
6. Evaluate and recommend engineering, administrative, and personal protective equipment controls or other interventions to reduce or eliminate hazards
7. Recognize important ethical, social and cultural issues impacting worker health
8. Understand applicable business and managerial practices
9. Interpret and apply applicable occupational and environmental regulations

10. Participate in the development and implementation of applicable IH- and occupational health-related programs
11. Review and interpret occupational hygiene data; calculate appropriate statistics, where needed
12. Prepare scientific and technical summaries and reports, and effectively communicate this information orally, and in writing
13. Propose and conduct a research or other type of project approved by the School of Public Health and the student's committee resulting in a master's thesis or project report or portfolio of related products that demonstrates both mastery of the subject matter and a high level of communication skills
14. Understand fundamental aspects of safety and environmental health
15. Understand the necessity of teamwork among workers, management, industrial hygienists, safety specialists, environmental specialists, engineers, and occupational physicians and nurses
16. Attain recognized professional certification after an applicable period of professional practice.

| IH curriculum enrollment, entry, and graduation, by year | all IH enrolled | masters IH enrolled | all IH entering program | masters IH entered program | of entering year group of masters IH, number graduated | of this entering masters group, avg. time to graduation, months |
|--|-----------------|---------------------|-------------------------|----------------------------|--|---|
| 2015-16 | 26 | 15 | 5 | 3 | 3 | 29 |
| 2016-17 | 21 | 10 | 7 | 6 | 6 | 20.7 |
| 2017-18 | 20 | 11 | 4 | 4 | 4 | 21 |
| 2018-19 | 18 | 9 | 4 | 4 | 4 | 21 |
| 2019-20 | 12 | 7 | 3 | 3 | 3 in May '21 | 21 |

additional EOHS students enter each year