

# Environmental Health: Industrial Hygiene (MS)

## COURSE REQUIREMENTS

### School of Public Health Requirements (These courses can be taken on-line during Fall, Spring & Summer semesters)

PUBH 6102	Issues in Environmental Health	2 cr
PUBH 6250	Foundations of Public Health	2 cr
PUBH 6320	Fundamentals of Epidemiology	3 cr
PUBH 6450	Biostatistics I	4 cr
PUBH 6742	Ethics in Public Health: Research and Policy	1 cr

### Division of Environmental Health Sciences Requirements:

PUBH 7195	MS in Environmental Health Sciences Plan B Project	3 cr
PUBH 7196	Applied Practice Experience: Environmental Health	3 cr

### Occupational Health and Safety Requirements:

PUBH 6130	Occupational Medicine: Principles and Practice	2 cr
PUBH 6150	Interdisciplinary Evaluation of Occupational Health & Safety Field Problems	3 cr
PUBH 6170	Introduction to Occupational Health and Safety	3 cr

### Industrial Hygiene Program Requirements (These courses are only offered every other year)

PUBH 6159	Principles of Toxicology I	2 cr
PUBH 6172	Industrial Hygiene Applications	2 cr
PUBH 6173	Exposure to Physical Agents	2 cr
PUBH 6174	Control of Workplace Exposures	3 cr
PUBH 6175	Environmental Measurements Laboratory	2 cr
PUBH 6192	Measurement and Properties of Air Contaminants	2 cr
PUBH 6193	Advanced Topics in Human Exposure Science	2 cr

### Industrial Hygiene Electives (At least 11 credits are required; F = Fall Semester, S = Spring Semester):

PUBH 6020	Fundamentals of Social and Behavioral Science	2 cr (F&S)
PUBH 6109	Environmental Health: Science, Politics and Policy	4 cr
PUBH 6112	Environmental Health Risk Assessment	2 cr (F)
PUBH 6115	Worker Protection Law	1 cr (S)
PUBH 6116	Environmental Law	1 cr (S)
PUBH 6120	Injury Prevention in the Workplace, Community, and Home	2 cr (S)
PUBH 6131	Working in Global Health	2 cr (S)
PUBH 6132	Air, Water, and Health	2 cr (S)
PUBH 6140	Occupational and Environmental Epidemiology	2 cr (S)
PUBH 6161	Regulatory Toxicology	2 cr (S)
PUBH 6162	Biomarkers	2 cr (F)
PUBH 6177	Nanotechnology Health and Safety	3 cr (every other F)
PUBH 6182	Emerging Infectious Disease	3 cr (S)
PUBH 6190	Environmental Chemistry	3 cr (F)
PUBH 6451	Biostatistics II	4 cr (F&S)
PUBH 6751	Principles of Management in Health Services Organizations	2 cr (F&S)
CEGE 4561	Solids and Hazardous Wastes	3 cr
CEGE 5551	Environmental Microbiology	3 cr (F)
CMGT 4031	Construction Safety and Loss Control	3 cr (F&S)
IE 5511	Human Factors and Work Analysis	4 cr (F)
IE 5513	Engineering Safety	4 cr (F&S)
KIN 5001	Foundations of Human Factors/Ergonomics	3 cr (F)
ME 5113	Aerosol/Particle Engineering	4 cr (F)
PA 5721	Energy Systems and Policy	3 cr (F)
Other courses approved by your academic advisor		

**MINIMUM TOTAL CREDITS:**

**52 cr**

### CONTACT INFORMATION

Program Coordinator  
Khosi Nkosi  
Email: [nkosi001@umn.edu](mailto:nkosi001@umn.edu)  
Phone: 612-625-0622

[SPH.UMN.EDU](http://SPH.UMN.EDU)

# Environmental Health: Industrial Hygiene (MS)

## SAMPLE PLAN OF STUDY

Fall	Spring	Summer
<b>YEAR 1</b>		
PUBH 6159 Principles of Toxicology I (2 cr) PUBH 6170 Introduction to Occupational Health and Safety (3 cr) PUBH 6450 Biostatistics I (4 cr)  <u>Odd years</u> PUBH 6192 Measurement and Properties of Air Contaminants (2 cr) PUBH 6193 Advanced Topics in Human Exposure Science (2 cr)  <u>Even years</u> INDUSTRIAL HYGIENE ELECTIVES (2-4 cr)	PUBH 6102 Issues in Environmental Health (2 cr) PUBH 6150 Interdisciplinary Evaluation of Occupational Health & Safety Field Problems (3 cr) INDUSTRIAL HYGIENE ELECTIVES (2-4 cr)  <u>Even years</u> PUBH 6173 Exposure to Physical Agents (2 cr) PUBH 6175 Environmental Measurements Laboratory (2 cr)  <u>Odd years</u> PUBH 6172 Industrial Hygiene Applications (2 cr) PUBH 6174 Control of Workplace Exposures (3 cr)	PUBH 7196 Applied Practice Experience: Environmental Health (3 cr)
<b>YEAR 2</b>		
PUBH 6250 Foundations of Public Health (2 cr) PUBH 6320 Fundamentals of Epidemiology (3 cr) PUBH 6742 Ethics in Public Health: Research and Policy (1 cr)  <u>Even years</u> INDUSTRIAL HYGIENE ELECTIVES (5-7 cr)  <u>Odd years</u> PUBH 6192 Measurement and Properties of Air Contaminants (2 cr) PUBH 6193 Advanced Topics in Human Exposure Science (2 cr) INDUSTRIAL HYGIENE ELECTIVES (2-4 cr)	PUBH 6130 Occupational Medicine: Principles and Practice (2 cr) PUBH 7195 MS in Environmental Health Sciences Plan B Project (3 cr) INDUSTRIAL HYGIENE ELECTIVES (1-3 cr)  <u>Odd years</u> PUBH 6172 Industrial Hygiene Applications (2 cr) PUBH 6174 Control of Workplace Exposures (3 cr)  <u>Even years</u> PUBH 6173 Exposure to Physical Agents (2 cr) PUBH 6175 Environmental Measurements Laboratory (2 cr)	