

Coordinated M.S. Civil Engineering/Master of Public Health

The coordinated Public Health/Civil Engineering degree program is offered through the [UAB School of Public Health \(SOPH\)](#) and the [UAB School of Engineering \(SOE\)](#). Earning these two advanced degrees prepares students for a broad range of careers in urban planning, urban sustainability, healthy and livable city design, the management of air, water, and land resources, and creating healthy communities.

Students in this coordinated program earn a Master of Public Health (MPH) with a concentration in Population Health. In this concentration, students gain a solid foundation in public health through completion of the MPH core (based on the Evidence-based Public Health framework), an Applied Practice Experience (Internship), and an Integrative Learning Experience (Capstone). Students also complete environmental health sciences courses focusing on urban health issues including air and water pollution, occupational safety, and assessing and managing environmental risks. In addition, in this coordinated degree program students earn a [Master of Science in Civil Engineering \(MSCE\)](#) with a specialization in environmental engineering focusing on green building and water supply design, drainage and stormwater runoff design, and energy resources.

Curriculum

A total of 60-62 credit hours of coursework are required for the coordinated MSCE/MPH. Normally, 42-44 credit hours are required for the MPH and 33 credit hours for the MSCE; however, because of the coordinated nature of the degree 12 credit hours from the MSCE curriculum are credited to the MPH and 3 credit hours from the MPH are credited to the MSCE. This allows students to earn both degrees in reduced time and at reduced cost.

Students may complete the MPH portion of this coordinated degree program totally online, in-class or through a mix of online and in-class experiences. Online students pay less than the out-of-state tuition rate for the MPH portion of this coordinated degree.

Requirements	Hours
MPH Core Requirements: (14 hours)	
PUH 601 This is Public Health	1
PUH 602 Community Assessment	3
PUH 603 Quantitative Methods in Public Health	3
PUH 604 Programs and Policies	3
PUH 605 Public Health Management and Evaluation	3
PUH 606 Leadership for Evidence-Based Public Health	1
MPH Degree Requirement: (1 hour)	
ENH 690 Environmental Health Perspectives	1
Population Health Degree Requirement: (3 hours)	
PUH 610 Population Health	3
Recommended Environmental Health Sciences: (at least 7 hours required)	
ENH 600 Fundamentals of Environmental Health Science	
ENH 612 Assessing & Managing Environmental Risks	
ENH 660 Fundamentals of Air and Water Pollution	
Applied Practice Experience: (3 hours)	

PUH 688 Public Health Internship	3
Integrative Learning Experience: (2 hours)	
HB 689 Health Behavior Integrative Learning Experience	2
or ENH 689 Environmental Health Sciences Integrative Learning Experience	
or EPI 689 Epidemiology Integrative Learning Experience	
or HPO 689 HPO Integrative Learning Experience	
Total Unique SOPH Hours (at least 30 hours are required)	30
MPH Shared Hours from MSCE Curriculum: (12 hours)	
CE 580 Introduction to Water and Wastewater Treatment	3
CE 585 Engineering Hydrology	3
CE 530 Water Supply/Drainage Design	3
CE 608 Green Building Design	3
Total Hours Earned for MPH Degree	42
Total Hours Completed for MPH/MSCE Degree	60-62