

MEng

HEALTH, SAFETY AND ENVIRONMENT ENGINEERING

About the program

The program is tailored for existing engineers aiming to integrate **Health, Safety and Environment Engineering** into their roles, managing risk and adhering to regulations, and engineering graduates aspiring to take on Health Safety and Environment Engineering responsibilities. Graduates possess diverse capabilities, enabling them to devise innovative solutions to challenges.

The program offers: Fire Protection Engineering Concentration, Process Safety Engineering Concentration, and Radiation Protection Engineering Concentration.

Students undertake a major project under the supervision of a faculty member that brings to bear the competencies acquired through the program.

Capstone Project: Students build on and use earlier course information and draw upon their engineering background, experience, and other pertinent resources for the capstone report.

Students also learn to apply suitable research techniques and methodologies as well as data collecting and analysis methods

An interim and a final presentation will be required.

Graduates of the program will

Design and develop innovative solutions to Health and Safety Engineering challenges in occupational settings, specific, but not limited to, process safety, radiation and fire protection.

Manage risk as they devise optimal engineering and operational solutions within the constraints of regulatory mandates and best practices.

Assume the roles of the general HSE engineering practitioner/manager, and/or embedding health and safety in their existing job functions, in leading local and international companies.

Labs

Ergonomics-based Computer-Aided Design, Human Factors, System Visualization, Human Factors Simulator and Production and Manufacturing.