

SAFETY ENGINEERING - CERTIFICATE

Designed for professionals aspiring to make a tangible impact, graduates emerge equipped to enhance safety protocols across diverse sectors, from offshore and onshore oil and gas facilities to renewable energy and carbon sequestration processes.

The graduate certificate in Safety Engineering requirements are achievable and relevant to all engineering disciplines. Graduate students in any engineering discipline can choose this option as part of their curriculum. Through this option, students are exposed to principles and case histories from a wide variety of engineering disciplines. The curriculum emphasizes the interdisciplinary nature of safety, health and environmental engineering. It also emphasizes the knowledge and skills most likely to be needed by any engineer, as well as those who specialize in Safety Engineering.

The graduate certificate in Safety Engineering seeks to serve all engineering disciplines equally well.

This program is also approved for delivery via asynchronous distance education technology.

Program Requirements

The certificate requires 12 hours of coursework. It is the intent that these hours are applicable to the hours necessary for graduation and not an additional load, but this will depend on the disciplines' specific course requirements. Receiving the certificate is not dependent on conferral of a degree. Of the total hours required for the certificate, six hours are dedicated to Basic Topics and are required for everyone in the program. An additional six hours address more specific or advanced topics. The advanced topics are cross-listed with numerous departments.

Code	Title	Semester Credit Hours
SENG 655/ CHEN 655	Process Safety Engineering	3
SENG 670	Safety Management Systems	3
SENG 677	Consequence and Impact Analysis	3
Select one of the following:		3
ISEN 627	Bayesian Models of Perception and Decisions	
ISEN 630	Human Operator in Complex Systems	
ISEN 660	Risk Engineering	
NUEN 612	Radiological Safety and Hazards Evaluation	
NUEN 689	Special Topics in...	
PHEO 655	Human Factors	
SENG 660/ CHEN 660	Risk Engineering	
SENG 674	System Safety Engineering	
SENG 680	Fundamentals of Safety	
SENG 689	Special Topics in...	
Total Semester Credit Hours		12