

Security and Resilience in the Chemical Energy Sectors, Undergraduate Certificate

Improve marketability

Goal Description:

The Undergraduate Certificate in Security and Resilience in the Chemical and Energy Sectors is designed to educate students working in, or seeking careers in, areas relating to security and resilience of infrastructures in the chemical and energy sectors.

Providing Department:

Security and Resilience in the Chemical Energy Sectors, Undergraduate Certificate

RELATED ITEMS/ELEMENTS -----

RELATED ITEM LEVEL 1

Language, Frameworks, and vulnerabilities in Security & Resilience in the Chemical and Energy Sectors

Learning Objective Description:

Students will learn the language, frameworks, and vulnerabilities associated with Security and Resilience in the Chemical and Energy Sectors.

RELATED ITEM LEVEL 2

Knowledge check

Indicator Description:

Students who complete this program will be able to:

- Summarize key concepts in risk evaluation
- Sketch interdependences within the chemical and energy sectors
- Interpret the role of planning and liaison in crisis management
- Recognize a range of cyber vulnerabilities impacting critical infrastructures
- Integrate vulnerabilities, features, and stakeholders pertaining to the maintenance of resilience in the chemical and energy sectors

Knowledge checks will be completed in blackboard associated with each of the above-mentioned learning objectives.

Criterion Description:

80% of students will pass the knowledge check with a score of 70% or higher.

Findings Description:

No findings to report. There were no students enrolled in the Security and Resilience in the Chemical and Energy Sectors Certificate during the 2022-2023 assessment cycle.

RELATED ITEM LEVEL 3

Recruitment & Enrollment

Action Description:

Targeted efforts were initiated in Summer 2023 to recruit students in to the Security and Resilience in Chemical Energy Sectors certificate. Emails were sent to students who have completed at least one of the required certificate courses to encourage enrollment.

New Update to Previous Cycle's Plan for Continuous Improvement Item

Previous Cycle's Plan For Continuous Improvement (Do Not Modify):

New unit, no previous PCI

Update of Progress to the Previous Cycle's PCI:

New unit, no previous PCI

New Plan for Continuous Improvement Item**Closing Summary:**

Targeted emails will continue to be sent to students who have completed at least one of the required courses for the Security & Resilience in Chemical Energy Sectors certificate encouraging their enrollment in the certificate program. Emails will be sent and tracked through EMMA, with follow-up enrollment reports run to capture any new student enrollment.

Multiple Learning Objectives and indicators will also be identified to incorporate in the 2023-2024 assessment plan.