

Security and Resilience in the Transportation Sector, Undergraduate Certificate

Goal 1: Develop Fully all Certificate Offerings

Goal Description:

This goal relates to all activities aimed at finalizing course development, assessment, and content review

Providing Department: Security and Resilience in the Transportation Sector, Undergraduate Certificate

Progress: Ongoing

RELATED ITEMS/ELEMENTS -----

RELATED ITEM LEVEL 1

Performance Objective Item for Goal 1

Performance Objective Description:

Develop certificate courses fully - finalize course material.

RELATED ITEM LEVEL 2

KPI, Target, and Results Item for Goal 1: Develop Fully all Certificate Offerings

KPI Description:

KPI 1 - all courses in the certificate will be fully developed

KPI 2 - course content will be assessed to ensure student performance can be adequately measured

KPI 3 - undergraduate director will oversee adjunct and full faculty familiarity with courses and best practices in delivery

Target Description:

KPI 1 - by Fall 2024 all PDL courses will be completed in 5 week design

KPI 2- in 2023/2024 course content will be assessed for appropriate exercises testing student achievement

KPI 3 - all faculty and adjuncts will review course content and submit any required changes to Master Copies of all courses within certificates

Results Description:

All courses in the certificate have been designed. In Fall 2023 formal assessment by the department necessitated changes in course design to include exercises - 3 critical thinking and 2 applied - as norm for student measure of content mastery. In Spring 2024 all courses in the certificate were augmented by said exercises. In Fall 2023 and Spring 2024 all faculty already teaching courses contained in the certificate provided editing, review, and reports of changes. Courses not yet taught have yet to be reviewed as adjunct faculty get assigned to teaching them.

RELATED ITEM LEVEL 3

Action item Goal 1: Develop Fully Certificate Offerigs

Action Description:

In 2023/2024 all courses within the certificate were completed. Moreover, the Department faculty was engaged in thorough overhaul of the courses' assessment. Each course was enhanced by 3 additional critical thinking exercises and 2 applied exercises. There are few courses yet to be taught. For year 2024/2025 if those courses have full enrollment, faculty will be tasked with completing their reviews to ensure content excellence.

Goal 2: Recruit Students into the Certificate

Goal Description:

This goal relates to all activities aimed at recruitment efforts to enroll students in the certificate

Providing Department: Security and Resilience in the Transportation Sector, Undergraduate Certificate

Progress: Ongoing

RELATED ITEMS/ELEMENTS -----

RELATED ITEM LEVEL 1

New Performance Objective Item

Performance Objective Description:

Conduct recruitment efforts to increase enrollment in the Security and Resilience in the Transportation Sector undergraduate certificate.

RELATED ITEM LEVEL 2

KPI, Target, and Results Item for Goal 2: Recruit Students into the Certificate

KPI Description:

KPI 1 - Recruitment efforts among incoming freshmen, in undergraduate classes, and in professional organizations

KPI 2 - Recruitment via conferences

KPI 3 - recruitment via UNIV 1101

Target Description:

KPI 1 - fliers and information sheets will be disseminated by Department administration and faculty at freshmen events, professional organizations, and undergraduate classes

KPI 2 - Faculty/staff will attend at least one conference where certificate will be promoted in vendor area; recruitment will double for 2023/2024

KPI 3 - Faculty teaching UNIV 1101 will promote the certificate in class

Results Description:

The new Undergraduate Program Director personally attended Bearkat week, Saturdays at Sam, new freshmen orientations, parent of freshmen orientation working with Luke Putnam on flyer distribution during all those events. Dr. Denham attended Texas Division of Emergency Management (TDEM) conference in May 2024 where the Department and Miss Carlson had set the vendor tent and advertised the certificate during presentation and during vendor exhibitions. Dr. Denham promoted the certificate during the annual conference of Emergency Management of Texas (EMAT) in March 2024 and at the Memorial Hermann Hospital System, Humble location in December 2023 and during LIFE at LEMIT in January 2024 and March 2024. Finally, Dr. Denham advertised the certificate in her Fall 2023 UNIV 1101 course. Other efforts consisted of Senior Director for Strategy and Innovation efforts at COCJ to promote the certificate. Overall, the recruitment in the certificate increased from 0 student in Fall 2023 to 3 in Fall 2024.

Attached Files

 [Department of Security Studies enrollment 2 Assessment Cycle 2023-2024.xlsx](#)

RELATED ITEM LEVEL 3

Action Item Goal 2: Recruit Students into the Certificate

Action Description:

In 2023/2024 all courses within the certificate were completed. Moreover, the Department faculty was engaged in thorough overhaul of the courses' assessment. Each course was enhanced by 3 additional critical thinking exercises and 2 applied exercises. There are few courses yet to be taught. For year 2024/2025 if those courses have full enrollment, faculty will be tasked with completing their reviews to ensure content excellence.

Goal 3: Provide Strong Knowledge Base

Goal Description:

This goal related to Undergraduate Certificate in Security and Resilience in the Transportation Sector educating students working in, or seeking careers in, areas relating to security and resilience of infrastructures in the transportation sector. The undergraduate certificate covers all aspects of the homeland security cycle—from protection, prevention, and mitigation to response and recovery—as they relate to the transportation sector.

Providing Department: Security and Resilience in the Transportation Sector, Undergraduate Certificate

Progress: Ongoing

RELATED ITEMS/ELEMENTS -----

RELATED ITEM LEVEL 1

Learning Objective Two for Goal 3: Provide Strong Knowledge Base

Learning Objective Description:

The Undergraduate Certificate in Security and Resilience in the Transportation Sector is designed to provide graduates with the following marketable skills:

- Risk Assessment.
- Emergency Management.
- Transportation Sector Security and Resilience.

RELATED ITEM LEVEL 2

Indicator, Criterion, and Findings for Learning Objective Two Goal 3: Providing Strong Knowledge Base

Indicator Description:

This indicator will be scores on applied exercises and critical thinking exercises across all courses in the certificate in Security and Resilience in the Transportation Sector measuring knowledge in areas relating to security and resilience of infrastructures in the chemical and transportation sectors.

Criterion Description:

This indicator will be scores on applied exercises and critical thinking exercises across all courses in the certificate in Security and Resilience in the Transportation Sector measuring knowledge in areas relating to security and resilience of infrastructures in the chemical and energy sectors.

Findings Description:

The Department could not receive diagnostics for Spring 2024 and no data to assess this item were thus available.

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

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

Closing Summary

Recruitments efforts are ongoing for the certificate program. Targeted efforts were initiated in Summer 2023 to recruit students into the Security and Resilience in the Transportation sector certificate. Emails were sent to students who have completed at least one of the required certificate courses to encourage enrollment.

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

Update of Progress to the Previous Cycle's PCI:

Emails were sent to students who have completed at least one of the required certificate courses to encourage enrollment.

Learning Objectives and indicators were assessed in the 2023-2024 assessment plan.

New Plan for Continuous Improvement Item

Closing Summary:

The Department will work with the Senior Director for Strategy and Innovation as well as with Institute for Homeland Security to find ways to recruit students into the certificate. The Undergraduate Program Director will continue marketing efforts through agencies, conferences, freshmen events, courses, and other venues. As more students enroll, we will be able to monitor their progress on objectives. We will also ensure that courses not yet taught will be diligently assessed by faculty teaching them for the first time and we will streamline methods to receive exercises results/score data at the Department after each class session.