

TRANSPORTATION ENGINEERING, CERTIFICATE

Student Learning Outcomes

1. Understand the theory, operation, safety and future aspects of at least one transportation system.\n
2. Design a few basic components in at least one transportation area.\n
3. Demonstrate a desire for and ability to acquire and apply new knowledge through effective lifelong learning strategies.

Outcomes Assessment Activities

- Students will be assessed and evaluated with various activities such as critical thinking assignments, homework, class exams, semester assignments, final exams, etc.

Specific Program Requirements

Please note: Non-engineering students may need additional courses to fulfill the prerequisites of the required courses.

| Course | Title | Credits |
|---|--|----------|
| Select 9 credits from the following: | | 9 |
| TENG 140 | Railway Basics & Safety | 3 |
| TENG 405 | Multimodal Transportation Systems | 3 |
| TENG 440 | Railway Transportation | 3 |
| CE 341 | Introduction to Transportation Engineering | 3 |
| or CET 372 | Traffic Analysis and Control | |
| CE 473 | Highway Design | 3 |
| Total Credits | | 9 |