TRAFFIC ENGINEERING
(ADVANCED CERTIFICATE)

NYSED: 84180  HEGIS: 0908.00  CIP: 14.0804

Program Description
Anyone who has spent time in a city knows how frustrating it can be to get from one place to the next. Accidents paralyzed long stretches of freeway, rush hour congestion slows traffic to a crawl, and crowded intersections can become an obstacle course for pedestrians. Traffic engineers understand how highly functional roads and highways ease such frustrations. It's their job to properly design and manage our traffic systems, to act as the caretakers of our cities' economic and social health.

The Advanced Certificate in Traffic Engineering program trains our students to become those caretakers. As one of the world's busiest and most populous regions, the New York City metro area provides a natural testing ground for the study of traffic systems. Our curriculum focuses on urban freeway and intercity networks, the management of arterial and street space, and the design and control of intersections. It also introduces you to the concepts and applications of Intelligent Transportation Systems (ITS) and its increasing importance in the field of traffic engineering.

Whether you're a working professional or a student seeking a highly focused, part-time course of study, our certificate provides specialized knowledge that you can apply immediately in the field. You'll also have the foundation to pursue further studies in the future: each of our courses can be transferred to an advanced degree program.

Admissions
Admission to graduate programs in the Tandon School of Engineering requires the following minimum components:

- Résumé/CV
- Statement of Purpose
- Letters of Recommendation
- Transcripts
- Proficiency in English

The NYU Tandon Graduate Admissions website (https://engineering.nyu.edu/admissions/graduate/apply/requirements/) has additional information on school-wide admission.

Some programs may require additional components for admissions.

See the program's How to Apply (https://engineering.nyu.edu/admissions/graduate/how-apply/) for department-specific admission requirements and instructions.

Program Requirements
Students will complete a total of 12 credits for Traffic Engineering Advanced Certificate.

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TR-GY 6053</td>
<td>TRANSPORTATION ECONOMICS AND FINANCE FUNDAMENTALS</td>
<td>3</td>
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<tr>
<td>TR-GY 6333</td>
<td>TRANSPORTATION &amp; TRAFFIC CONCEPTS, CHARACTERISTICS &amp; STUDIES</td>
<td>3</td>
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<tr>
<td>TR-GY 6343</td>
<td>TRAFFIC OPERATIONS &amp; CONTROL</td>
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Elective Course
Select one of the following:

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<tr>
<td>TR-GY 6223</td>
<td>Intelligent Transportation Systems and Their Applications</td>
<td>3</td>
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<tr>
<td>TR-GY 7033</td>
<td>MULTIMODAL TRANSPORTATION SAFETY</td>
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<tr>
<td>TR-GY 7323</td>
<td>DESIGN OF PARKING &amp; TERMINAL FACILITIES</td>
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Total Credits 12

Sample Plan of Study

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Credits 6

2nd Semester/Term

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Elective 3

Credits 6

Total Credits 12

Learning Outcomes
Upon successful completion of the program, graduates will:

1. Fundamentally understand the nature of traffic facilities.
2. Control and operate traffic and other transportation facilities.
3. Apply information technologies to intelligent transportation systems.

Policies
GPA Requirements
Students must maintain a B (3.0) cumulative grade point average in all graduate courses taken at NYU Tandon School of Engineering.

NYU Policies
University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).

Tandon Policies
Additional academic policies can be found on the Tandon academic policy page (https://bulletins.nyu.edu/graduate/engineering/academic-policies/).