

## Requirements for Master's Non-Thesis Students:

*Master's Program Plan of Study (PPS):* The student must complete the *Master's PPS* and obtain their advisor's signature by the midterm of the first semester. Signed forms must be submitted to [gradforms@essie.ufl.edu](mailto:gradforms@essie.ufl.edu) for processing. **Students will have an advising hold until their first PPS has been submitted.**

*Transfer Credits* (if any): The request for the use of transfer credits toward the degree program must be made using the PPS.

*Course Selection and Revision of PPS:* If the student is selecting courses following the approved PPS, they can proceed with course selection on their own. If they would like to select courses not listed on the PPS, students must contact their advisor for approval of the proposed course selection before the registration periods of the upcoming semesters. They should also discuss with their advisor on revising the PPS. Submit revised PPS forms to [gradforms@essie.ufl.edu](mailto:gradforms@essie.ufl.edu) for processing.

*Supervisory Committee:* The supervisory committee of non-thesis students comprise only of the student's advisor. However, when a minor is pursued, a graduate faculty member from the minor department should be included in the committee.

Additional requirements may be imposed by the Department of Civil and Coastal Engineering or the UF Graduate School; therefore, the student should consult the Civil and Coastal Engineering *Graduate Student Handbook* for additional information.

Graduate classes offered in Transportation Engineering are broadly grouped into three streams (a) Operations and Simulation, (b) Planning and Analytics, and (c) Networks, Safety, and Design. The courses offered under each stream are listed below:

### **Operations and Simulation**

<b>Instructor</b>	<b>Course No.</b>	<b>Title</b>
Elefteriadou	TTE 6267	Traffic Flow Theory
Elefteriadou	TTE 6259	Urban Streets Simulation and Control
Washburn	TTE 5256	Traffic Engineering
Washburn	TTE 6205	Freeway Operations
Washburn	CGN 6905	Advanced Traffic Simulation*

### **Planning and Analytics**

<b>Instructor</b>	<b>Course No.</b>	<b>Title</b>
Srinivasan	TTE 5106	Advanced Urban Transportation Planning
Srinivasan	TTE 6505	Discrete Choice Analysis
Zhao	EGN 5215	Machine Learning Applications in Civil Engineering
Zhao	CGN 6905	Transportation Data Analytics
Yan	CGN 6905	Applied Data Science in Civil and Environmental Engineering
Yan	CGN 6905	Sustainable Transportation and Public Transit

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**Networks, Safety, and Design**

Instructor	Course No.	Title
Du	TTE 5305	Advanced Transportation Systems Analysis
Du	TTE 6606	Urban Transportation Models
Guo	TTE 6315	Highway Safety Analysis
Guo	TTE 5805	Geometric Design of Transportation Facilities

\* This class will be offered in place of Freeway Operations occasionally.

The following are the course work requirements:

- Total Credits: Minimum of 30
- Core Courses: 9 credits. Select one course from each of the three streams.
- Transportation Electives: At least 9 credits. Select at least three courses from any of the remaining Transportation courses.
- Other Electives: At most 12 credits. Students are encouraged to choose electives from other branches of civil engineering and a variety of other disciplines including but not limited to: Industrial and Systems Engineering, Computer Science and Engineering, Urban and Regional Planning, Geography, and Statistics. Students must choose electives in consultation with their advisors. The electives may be chosen to obtain a minor in another discipline.
- A student may pursue an internship during their graduate studies (with approval from the advisor). Up to 3 credits (EGN 5949) from the internship can count towards the degree. The internship will be considered under the “other electives” category.
- A student may be able to transfer up to 9 credits from a previous degree with the approval of his/her advisor and per UF guidelines. These credits will count towards the category of electives unless the student can demonstrate that these transfer courses are equivalent to one or more of the core courses.
- UF also offers a variety of courses on written and spoken English<sup>1</sup>. Students are strongly encouraged to take one or more such classes to enhance their communication skills in English. These classes will not count towards the credit requirements of the graduate degree.

Non-thesis students obtaining a Master of Science degree must satisfy the final exam requirements by submitting a completed term project that earned a grade of B or better from any of the twelve Transportation Engineering courses listed in the coursework requirements. Projects from outside the curriculum will not be considered. Projects are to be submitted to the student’s advisor for approval and must be comprehensive in nature. Master of Engineering students are not required to complete the final examination per the Graduate Catalog.

Per the UF Graduate School Policy, students must have an overall GPA of 3.00 and an overall 3.00 GPA within the departmental courses to be eligible for graduation.

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<sup>1</sup> <http://graduateschool.ufl.edu/admissions/international-applicants/english-language-programs/>