

CERTIFICATE OF UNDERGRADUATE STUDY IN TRANSPORTATION ENGINEERING

The CUGS in Transportation Engineering will allow students to increase the depth and breadth of knowledge in transportation engineering fundamentals during their undergraduate studies.

This will allow students to graduate from Rowan University better prepared for a career specifically in Transportation Engineering than they would with just the BS degree, and provide them with an additional credential beyond the BS, yet prior to earning a MS degree.



Transportation Engineering CUGS Courses

Complete Two Courses from the Following List:

CEE 08463	Transportation Planning and Demand Analysis	3 Credits
CEE 08464	Elements of Transportation Engineering for Seniors	3 Credits
CEE 08465	Pavement Analysis and Evaluation	3 Credits
CEE 08466	Introduction to Transportation System Modeling	3 Credits
CEE 08468	Introduction to Intelligent Transportation Systems	3 Credits

Complete Two Courses from the Following List:

GEOG 16260	Fundamentals of Geographic Information Systems	3 Credits
GEOG 16307	Geography of Transportation	3 Credits
GEOG 16360	Applications of Geographic Information Systems	3 Credits
PLAN 31280	Foundations of Planning and Environmental Design	3 Credits

* CEE 08361 Transportation Engineering and GEOG 16160 Introduction to Mapping and Geographic Information Systems are prerequisites for admission into the CUGS.

* CEE 08361 Transportation Engineering is a prerequisite for all of the CEE courses listed.

* GEOG 16160 is a prerequisite for GEOG 16260 Fundamentals of Geographic Information Systems which in turn is a prerequisite for GEOG 16360 Applications of Geographic Information Systems.

Certificate of Undergraduate Study in Transportation Engineering

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CEE 08361 Transportation Engineering and GEOG 16160 Introduction to Mapping and Geographic Information Systems are prerequisites for admission into the CUGS. CEE 08361 Transportation Engineering is a prerequisite for all of the CEE courses listed below. GEOG 16160 is a prerequisite for GEOG 16260 Fundamentals of Geographic Information Systems which in turn is a prerequisite for GEOG 16360 Applications of Geographic Information Systems.

Students will complete two courses (6 s.h.) from the following list:

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
<input type="radio"/> CEE 08463	Transportation Planning and Demand Analysis	Prereq. CEE 08361 Transportation Engineering			3
<input type="radio"/> CEE 08464	Elements of Transportation Engineering for Seniors	Prereq. CEE 08361 Transportation Engineering			3
<input type="radio"/> CEE 08465	Pavement Analysis and Evaluation	Prereq. CEE 08361 Transportation Engineering			3
<input type="radio"/> CEE 08466	Introduction to Transportation System Modeling	Prereq. CEE 08361 Transportation Engineering			3
<input type="radio"/> CEE 08468	Introduction to Intelligent Transportation Systems	Prereq. CEE 08361 Transportation Engineering			3

Students will complete two courses (6 s.h.) from the following list

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
<input type="radio"/> GEOG 16260	Fundamentals of Geographic Information Systems	Prereq. GEOG 06160 Intro to Mapping and Geographic Information Systems			3
<input type="radio"/> GEOG 16307	Geography of Transportation				3
<input type="radio"/> GEOG 16360	Applications of Geographic Information Systems	Prereq. GEOG 16260 Fundamentals of Geographic Information Systems.			3
<input type="radio"/> PLAN 31280	Foundations of Planning and Environmental Design				3
total: 12 sh					