

CIVIL ENGINEERING (M.S.)

Concentrations

- Construction Concentration
- Sustainable Water Engineering Concentration

Program Admission Requirements

The Master of Science (M.S.) in Civil Engineering program has a selective admissions policy. Admission requirements include, but are not limited to, the following:

- Submit an FGCU Graduate Admissions Application (<https://www.fgcu.edu/admissionsandaid/graduateadmissions/>) and satisfy all applicable university admissions requirements.
- Earned baccalaureate degree in Engineering or Construction Management, or baccalaureate degree in a closely related discipline, from an institution that maintains accreditation by a U.S. Department of Education sanctioned accrediting body (<https://www.ed.gov/laws-and-policy/higher-education-laws-and-policy/college-accreditation>) or equivalent foreign institution.
 - Submit official copies of all academic transcripts.
 - Grade Point Average (GPA) must be 3.0 or higher for the last 60 credits of undergraduate coursework.
- Complete the following prerequisite courses with a grade of C (2.0) or better prior to matriculation ("C-" grades are not acceptable). Survey courses are not acceptable:
 - At least one year of mathematics and/or finance beyond algebra and trigonometry: 6 semester hours
 - One semester of physics and one semester of a natural science including labs; or at least one year of physics including labs: 7 semester hours
 - One semester of probability and/or statistics: 3 semester hours
 - One semester of computer competency: 2 semester hours
 - One semester of project and/or project management: 3 semester hours
- Provide a resume, two (2) recommendation letters (at least one from an academic reference) and a statement of objectives clearly stating intended Civil Engineering (M.S.) concentration.
- Provide official copies of GRE test scores. The exam must have been taken within the last five (5) years. Exceptions to the GRE test scores requirement may be considered on a case-by-case basis:
 - FE/PE can be used in lieu of the GRE for non-thesis option. You must obtain a verification link from NCEES and forward it to the department for processing.
 - GRE requirement may be waived for applicants with minimum 3.0 GPA in upper-division coursework (last 60 credit hours) within the last seven (7) years from an accredited undergraduate degree program in Engineering or Construction Management.
 - GRE requirement may be waived for applicants with a relevant graduate degree from a regionally accredited institution of higher learning.
 - GRE test scores that have expired (older than five years) may be considered on a case-by-case basis with the submission of documented relevant work experience.
- Applicants should be aware that admission into any graduate program is granted on a competitive basis. Applicants meeting

minimum requirements may be denied admission based on such factors as program capacity or academic discretion. Likewise, applicants may be considered for admission as an exception if stated admissions criteria are not met.

- International students must demonstrate English language proficiency in accordance with University regulation.

Admission Deadlines

Admissions to the Civil Engineering (M.S.) program are processed for the Fall and Spring semesters only. Visit the Admissions Office website for information on admission deadlines of the University.

Program Progression and Additional Graduation Requirements

- Complete a minimum of 30 credits.
- Satisfactorily complete the appropriate Plan of Study. A Plan of Study is a set of courses and a thesis or elective courses chosen and completed in a sequence that meets the needs and interests of the individual student and the degree requirements and other stipulations of the University and the College of Engineering. Prior to or immediately upon admission to the program, students should discuss their options with the graduate advisor. The Plan of Study must be approved no later than the end of the student's first semester in the program, regardless of credits earned.
- Earn a cumulative GPA of 3.0 or higher for all courses in the approved Plan of Study.
- Maintain minimum 3.0 cumulative grade point average on a 4.0 scale throughout the program (see the Probation/Dismissal section of the Graduate Student Guidebook).
- Earn a grade of C or better in each course. A grade of B- is considered better than C.
- Satisfy all degree requirements within seven years from the time of admission to the program.
- Comply with University graduate policies and regulations.
- Satisfy the University's graduate degree requirements.
- Each student completing a thesis must have a graduate committee composed of a minimum of three individuals with at least two from approved engineering faculty.
- Earn more than 50% of the credits toward the degree through FGCU.
- Students must register for a minimum of one credit during the semester in which they apply for graduation.

Program Requirements

Code	Title	Credits
Required Courses in the Major		(18 credits)
Complete one of the following options (thesis or non-thesis). All courses must be selected in consultation with the program advisor.		
A minimum grade of C is required in each course		
Thesis Option		
EGN 6430	Advanced Engineering Analysis	3
EGN 6971	Thesis 1	3
EGN 6973	Thesis 2	3
Complete 9 credits from Restricted Electives list ¹		
Non-Thesis Option		
EGN 6430	Advanced Engineering Analysis	3

EGN 6457	Research Methods	3
EGN 6941	Project	3
Complete 9 credits from Restricted Electives list ¹		
Restricted Electives ¹		
BCN 6315	Advanced Const Technology	3
BCN 6581	Building Energy Modeling	3
BCN 6705	Construction Management	3
BCN 6748	Construction Law	3
BCN 6790	Const Methods Improvements	3
CWR 6125C	Groundwater Hydrology	3
CWR 6532	Urban Water Modeling	3
CWR 6537	Contaminant Transport	3
CWR 6637	Storm Water Mgmt and Modeling	3
EGN 5932C	Special Topics Engineering	1-4
EGN 6228C	GIS for Engineers	3
EGN 6730	Renewable Sustainable Systems	3
EGS 6626	Engineering Project Management	3
ENV 6027	Bioremediation	3
ENV 6516	Sustainable Water Quality Engr	3
Concentration		(12 credits)

Select one of the following concentrations in consultation with the program advisor. ¹

A minimum grade of C is required in each course

Sustainable Water Engineering Concentration

CWR 6532	Urban Water Modeling	3
CWR 6537	Contaminant Transport	3
CWR 6637	Storm Water Mgmt and Modeling	3
ENV 6516	Sustainable Water Quality Engr	3

Construction Concentration

BCN 6618	Comprehensive Estimating	3
BCN 6722	Advanced Planning and Control	3
BCN 6755	Advanced Construction Finance	3
BCN 6874	Equipment and Methods	3

¹ Courses used to fulfill requirements in the Restricted Electives cannot also be used to fulfill requirements in the Concentration.

Total Credits Required: 30