

Major: Civil Engineering

College: Engineering & Computer Science

Degree: Bachelor of Science in Civil Engineering

Description: Prepares students for civil engineering practice and/or advanced studies. The program emphasizes water resources, environmental engineering, structures, transportation, and geotechnical engineering.)

Limited Access Program: No

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PROGRAM OF STUDY AT THE COMMUNITY COLLEGE

Complete the A.A. degree at the community college or a minimum of 60 semester hours in academic (college-parallel) subjects, including the General Education program of the community college (at least 36 semester hours). If you transfer without an A.A. degree and have less than 60 semester hours of acceptable credit, you must meet the FAU's entering freshman requirements including ACT or SAT test scores and GPA. Please note that Engineering Technology courses are generally **not** acceptable as part of an engineering curriculum.

Students are encouraged to complete the following 52 CREDITS OF COMMON PREREQUISITES during the program of study at the community college, some of which may satisfy the General Education requirements:

Calculus (MAC 2311, MAC 2312 & MAC 2313) 1,2	12
Physics with Calculus I & II with Lab (PHY 2048/L & PHY 2049/L)	8
General Chemistry I with Lab (CHM x045/L) 1,2	4
Differential Equations I (MAP 2302)	3
English Composition I & II (ENC x101 & ENC x102)	6
Humanities courses 1,4	6
Social Science courses 1,4	6
Additional Humanities or Social Sciences course 1,4	3
Chemistry II	4
The REMAINING 12 CREDITS taken at the community college level may include the following:	
Introduction to Engineering	3
Public Speaking	3
Additional Social Sciences or Humanities course	3

Notes:

1. Students May be admitted to FAU upper-division without having completed this course, however, the course must be completed before graduation and may cause excess credits.
2. The number of credits varies among lower-division institutions. The complete sequence of Calculus and Physics with Calculus is required.
3. At some community colleges, chemistry is taught as a three-course sequence. Civil Engineering majors will need CHM 1045 + CHML 1045 and CHM 1046 + CHML 1046.
4. Two or more Social Science and Humanities courses must have a global perspective (e.g. "World Geography", "History of Civilization", etc.).
5. An introductory course in engineering is preferred. However, substitutions may be allowed, provided they are part of a cohesive pre-engineering AA degree program.
6. The Department requires 9 credits in Social Science and 9 credits in Humanities.

Some community colleges have formal agreements with FAU as to which courses should be taken to meet these 12 credits – check with your community college advisor.

PLEASE NOTE: To receive credit toward the B.S. in Civil Engineering a grade of a “C” or better must be received in each course from the previous page. Courses receiving grades lower than a “C” will have to be repeated. In addition, all prerequisites for each mathematics, science, or engineering course must be completed with a “C” or better before enrollment is permitted into the program.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. Admission to the Civil Engineering program requires an evaluation of all transfer credits.

PROGRAM OF STUDY AT THE UNIVERSITY

It is recommended that you take an unofficial transcript and course catalog of all institutions you have attended to your advising sessions. **ABET Accreditation:** This program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). Please contact the department for more details.

Engineering Fundamentals (22)

EGN	1002	Fundamentals of Engineering*	3
EEL	2161	C for Engineers	3
EGM	3510 or EOC 3105	Statics	3
EGM	3400 or EOC 3113	Dynamics	3
EGM	3524 or EOC 3150	Strength of Materials	3
		Engineering Science Elective	3
CGN	2327	Fundamentals of AutoCad	3

Professional Core (37)

CGN	3501C	Civil Engineering Materials	3
CWR	3201C	Applied Hydraulics	3
CWR	4202	Hydrologic Engineering	3
ENV	3001	Environmental Science and Engineering	3
CEG	3011C	Soil Mechanics	1
CEG	4012	Foundation Engineering	3
CES	3102	Analysis of Structures	3
CES	4605	Structural Steel Design	3
TTE	4004	Transportation Engineering I	3
TTE	4005	Transportation Engineering II	2
CGN	4803 C	Civil Engineering Design I	2
CGN	4804 C	Civil Engineering Design II	1
CES	4702	Reinforced Concrete Design	3
ENV	4514	Water & Wastewater Technology	3
STA	4032	Probability and Statistics for Engineers	3
		Civil Engineering Elective	3

Technical Electives

3 credits are to be selected from a list of approved technical electives (contact the department for a list).

Please see College of Engineering Academic Advisor.