

The following section explains the make-up policy for applicants to the Civil Engineering graduate program who have not had an undergraduate background in engineering.

Course work Make-Up Policy for Graduate Applicants

Applicants with non-engineering BS degrees wanting to pursue a graduate program will usually be required to take specific make-up coursework before their applications will be considered for graduate admission. These make-up courses can be taken under Continuing Education (CED). Except for the currently exempted graduate sub-areas of Environmental Science and Chemistry, and the CE/CRP Dual Degree Program in Transportation Planning, the goals that govern the designation of make-up course work are that the student be able to pass the Engineer in Training Exam, and eventually become registered as a professional engineer.

For the FE (Fundamentals of Engineering) exam, the required course work is as follows: those courses normally taken in the freshman engineering program (math, physics, chemistry, and computer programming); sophomore level engineering mechanics courses (statics, dynamics, and strength of materials); and certain courses from the CE core (materials, circuits, thermodynamics, and engineering economics). Specifically, the courses are:

- Math 151, 152, 153, 254, 255
- Physics 131, 132, 133
- Chem 121, 122 or 125
- Engineering 181, 183, Engineering Graphics 167
- Mech Eng 410(Statics), 430(Dynamics), 420(Materials)
- CE 406(Numerical Methods), CE 451 (Material), CE 576 (Eng. Economics)
- EE 300 (Circuits), Mech Eng 500 (Thermal science)

Note that after taking these specified make-up courses, the non-engineering student may want to consider the option of continuing in the Department of Civil and Environmental Engineering and Geodetic Science undergraduate program, majoring in his/her area of interest, and obtain the BSCE degree.

For the professional engineer's exam, and also as make-up course work for the student's graduate program, those CE courses that are most related to the selected graduate sub-area are also required. The courses include:

Construction Engineering & Mgt	Environmental Engineering	Geotechnical Engineering	Remote Sensing	Structural Engineering	Transportation Engineering
CE 431	CE 413	CE 554	CE 400.01&.03	CE 431	CE 400.01& .03
CE 535	CE 516	CE 651	CE 405	CE 531	CE 570
CE 540	CE 520			CE 532	
				CE 534	
				CE 535	

A minimum GPA of 3.0 should be maintained in the CE coursework in order to apply to CE graduate program.

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