

(2023-24) Information for Advisors about scheduling classes for the Bachelor of Science in Engineering

Students who are interested in the Bachelor of Science in Engineering (B.S.E) are not directly admitted to the program. Initially, they are candidates for the Bachelor of Arts.

A student may become a candidate for the Bachelor of Science in Engineering once the student has:

- a. completed at least 7 courses and has a GPA of at least 2.0
- b. been granted course credit with a grade of at least C- (or been granted exemption or credit by exam) in EGR 131, PHY 161 or 162, MAT 120 or 121 or 122, and one other EGR course that counts towards the Engineering major.
- c. passed a math qualifying exam. Students who enter the college as first-years can take the qualifying exam as early as block 5 of their first year, and attempt the exam once per semester until the end of the spring semester of their sophomore year. Students who enter the college as second-years must pass the exam by the end of the fall semester of their junior year. Students who enter the college as third-years must pass the exam by the end of the spring semester of their junior year.

The B.S.E. requires at least 21 courses, including math through Differential Equations, Physics with calculus (1 and 2), Chem 1 and an additional science class, and 12 engineering courses. It is important for students to get started on their degree in Block 2. Students who don't get started right away may still be able to complete the degree in four years, but only if they don't drop any courses, and it is still not guaranteed.

Students who are interested in Engineering should, in their first year, take one of the following sets of courses, depending on their preparation:

If they took physics and calculus or they took physics and pre-calculus and they feel confident in their pre-calculus skills (appropriate AP or other credit can exempt students from those classes in the schedule below):

EGR 131 (Block 2 or Block 5 if Block 2 is full)
MAT 121 (Block 3)
PHY 161 (Block 4 or 6)
EGR 231 (Block 7)
[Optional: any of CHE 121/161, CSC 140, EGR 240]

If they took physics and pre-calculus in high school, and they would like review of their precalculus skills:

EGR 131 (Block 2 or Block 5 if Block 2 is full)
MAT 119/120 (Blocks 3&4) or MAT 121 (Block 3)
PHY 161 (Block 6)
EGR 231 (Block 7)
[Optional: One (or both) of CHE 121 and CSC 140]

If they took pre-calculus in high school but did not take physics:

PHY 118 (Block 2)
EGR 131 (Block 5)
MAT 119/120 (Blocks 6&7)
One (or both) of CHE 121 and CSC 140