



Integrated Design Engineering Curriculum Electrical Engineering Emphasis

Standard Course Substitutions

- APPM 1350: APPM 1345, MATH 1300
- APPM 1360: MATH 2300
- APPM 2350: MATH 2400
- APPM 2360: MATH 2130 and MATH 3430, MATH 2135 and MATH 3430
- CSCI 1300: ASEN 1320, CSCI 1320 , ECEN 1310
- ECEN 1400: GEEN 1400, ASEN 1400, ASEN 1403
- GEEN 2851: CVEN 2121, MCEN 2023, ASEN 2001/2701/2401
- GEEN 3024: MCEN 2024
- GEEN 3852: AREN 2110, MCEN 3012, ASEN 2002/2707/2402
- GEEN 3853: CVEN 3227, MCEN 3047

Math or Science Electives

- Must reach 30 total math/science credits
- Visit the <u>IDE Advising</u> webpage for options.

Humanities & Social Science Electives/Writing Requirements

Visit the college's <u>Humanities, Social Sciences, and Writing Requirements</u> webpage for options.

Concentration

IDE majors are required to officially declare a <u>Concentration</u> by the end of their second year at the latest. Students who transfer into the IDE major after their second year must declare a Concentration by the end of their first semester in IDE. Students who have not declared a Concentration before those deadlines will receive a hold on their registration until they declare. Students can initiate the declaration process by emailing or meeting with an IDE Academic Advisor.

Electrical Engineering Design Lab Electives Options (Choose 3)

- ECEN 2360: Programming Digital Systems (formerly ECEN 3350)- PR:ECEN 2350
- ECEN 2370: Embedded Software Engineering- PR: ECEN 1310, ECEN 2350; CR: ECEN 2360 or CSCI 2400
- ECEN 3250: Microelectronics- PR: ECEN 2250
- ECEN 3300: Linear Systems- PR: ECEN 2260
- ECEN 3400: Electromagnetic Fields & Waves- PR: APPM 2350, APPM 2360, PHYS 1120, & ECEN 2250

ECEN 4610 Pre-Requisites

- ECEN 2260: Circuits as Systems
- ECEN 2270: Electronics Design Lab
- Three Design Lab Electives above
- GEEN 2400: Projects for the Community
- GEEN 3400: Invention & Innovation

Grade Requirements

The minimum passing grade for a course that is a prerequisite or corequisite for another required course is a C-. If a grade of D+ or lower is received in a course which is a prerequisite to another, the student may not register for the subsequent course until the first grade has been raised to a C- or higher. If a grade of D+ or lower is received in a course which is a corequisite to another, the course must be repeated until a grade of C- or higher is achieved.

The minimum passing grade for all required engineering core, disciplinary emphasis, and concentration courses is a C-. The minimum passing grade for a course that is not specifically a prerequisite or corequisite for another required course is D-, if not otherwise noted above.

In addition, students need to have a cumulative and major GPA of at least 2.000 in order to graduate from the College of Engineering. **Pass/Fail** is only permitted for up to 6 Free Elective credits.

Helpful Links

- IDE Emphasis Areas
- IDE Concentrations
- IDE Core Courses
- IDE Projects
- FE Exam

- H&SS Requirements
- <u>CEAS Forms</u> (including Petition, Incomplete Grade, and Independent Study)
- <u>Study Abroad</u>