INTEGRATED DESIGN ENGINEERING *Mechanical Emphasis- Fall* 2024



Effective: Fall 2024

Integrated Design Engineering Curriculum Mechanical 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: MCEN 1030, ASEN 1320, CHEN 1310, ECEN 1310, CSCI 1320
- **GEEN 1017:** MCEN 1025
- GEEN 1400: ASEN 1400, ASEN 1403, ECEN 1400
- GEEN 2851: CVEN 2121, MCEN 2023, ASEN 2001/2701/2401
- GEEN 3010: MCEN 3017, ECEN 3010
- GEEN 3024: ASEN 1022, MCEN 2024
- GEEN 3852: AREN 2110, EVEN 3012, MCEN 3012, ASEN 2402
- GEEN 3853: MCEN 3047
- MCEN 1024: CHEN 1201, CHEN 1211, CHEM 1113
- MCEN 2043: CVEN 3111, ASEN 2403
- MCEN 2063: CVEN 3161
- MCEN 3021: CVEN 3313, CHEN 3200
- MCEN 4043: ECEN 3300 and ECEN 4138

MCEN 4045 Requisite Information

- Pre-Requisites:
 - GEEN 2400, GEEN 3400, GEEN 3010, GEEN 3852
 - MCEN 3021, MCEN 3025
- Pre or Co-Requisite:
 - GEEN 3853 or MCEN 4043 (one needs to be taken as a pre-req; the other can be a co-req)
- Co-Requisite:
 - GEEN 3853 or MCEN 4043 (one needs to be taken as a pre-req; the other can be a co-req)
 - Writing

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.

Math or Science Electives

- Must reach at least 30 total math & science credits.
- <u>This is a list</u> of CU Boulder courses that have been approved to satisfy this requirement.
- Visit the <u>IDE Advising</u> webpage for more information.

Humanities & Social Science Electives/Writing Requirements

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

FE Exam

Completion of the <u>FE Exam</u> is required of all IDE students to graduate.

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.

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>
- Bachelors Accelerated Masters Program (more to come)