

Choose 6 Credits of Advanced Manufacturing Engineering Electives (check prerequisites):

MFGE 4355 – Design of Machine Elements and Tooling
MFGE 4357 – Dynamics of Machinery
MFGE 4377 – Intro to Polymer Nanocomposites
MFGE 4315 – Energy & Thermofluids Engineering
MFGE 4330 – Semiconductor Manufacturing
MFGE 4365 – Tool Design
ME 3311 – Mechanics of Solids

Students may also choose a maximum of 3 credits from:

ENGR 2302 – Dynamics
EE 4331 – Intro to Machine Learning for Engineering Applications
IE 3360 – Lean Systems and Ergonomics
TECH 4330 – Foundry & Heat Treatment
IE 4355 – Facilities Planning

ENGR 3190 – Cooperative Education
ENGR 3290 – Advanced Cooperative Education
ENGR 4299 – Engineering Undergraduate Research
ENGR 4395 – Independent Studies in Engineering

**CHEM 1335 or 1341
Prerequisite Requirements:**

Must complete 1 of the following mathematics prerequisites:

- MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2417 or MATH 2471 - any with a grade of "C" or better
- ACT Mathematics score of 24 or better
- New ACT Mathematics score of 25 or better
- SAT Mathematics score of 550 or better
- Accuplacer College Mathematics score of 86 or better
- Compass College Algebra score of 46 or better
- Next-Generation Advanced Algebra and Functions Test of 263 or better

AND

Must complete 1 of the following to demonstrate Chemistry Readiness:

- Completion of Chemistry Readiness Exam with a score of 80 or better
- CHEM 1320 grade of "C" or better