| Subject | Course Number | Course Title | Prerequisites designated with a + might be taken concurrently. Courses designated with a * must be completed with a C or better | Co-requisites | Restrictions | | | | Semester | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | FR | SO | JR | SR | Fall | Spring | Summer |
| MECH | 1305* | Graphic & Design Fundamentals | none | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 1321*[a] | Mechanics I - Statics | MATH 1411* & PHYS 2420* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2103* | Engineering Computations | MATH 1312* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2131* | Manufacturing Engineering Laboratory | MECH 1305* or BE 1301 | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2132* | Additive Manufacturing Laboratory | MECH 1305* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MECH | 2133* | Metal Casting Laboratory | MECH 1305* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MECH | 2134* | Intelligent Manufacturing | MECH 1305* | none | ✓ | ✓ | ✓ | ✓ | | | |
| MECH | 2311* | Intro to Thermal-Fluid Science | MATH 1312+* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2322*[b] | Mechanics of Materials | MECH 1321* or (BE 2434* and CE 2315*) | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2331* | Materials & Manufacturing Processes | CHEM 1305* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2340* | Mechanics II - Dynamics | MECH 1321* or BE 2334* or CE 2315* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 2342*[c] | Electro Mechanical Systems | MATH 1312* or MATH 2313* or MATH 2326* | none | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| MECH | 3103 | Mechatronics Lab | MECH 2342* or BE 2377* or EE 2350* | none | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| MECH | 3113 | Thermo-Fluid Lab | MECH 2311* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3123 | Solid Mechanics Lab | MECH 2322* or BE 2303* or CE 2334* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3312 | Thermodynamics | MECH 2311* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3313 | Thermo-Fluids Lab | MECH 2311* or BE 2375* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3314 | Fluid Mechanics | MECH 2311* or BE 2375* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3323 | Solid Mechanics Lab | MECH 2322* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3334 | Mechanical Design | MECH 2322* & (MECH 2331* or BE 2303* or CE 2334*) | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3345 | System Dynamics | (MECH 2340* or BE 2338) & (MECH 2342* or BE 2377* or EE 2350*) | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 3352 | Engineering Analysis II | MATH 2326* | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 4315 | Heat Transfer | MECH 3312 & MECH 3314 | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 4316 | Thermal System Design | MECH 4315 | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 4326 | Finite Element Analysis | MECH 3334 & MECH 3352 | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MECH | 4330 | Dynamic Systems Stimulation | MECH 3345 & MECH 3352 | none | ✓ | ✓ | ✓ | ✓ | | | |
| MECH | 4332 | Mechanical Computations Applications in Vision an | MECH 3345 | none | ✓ | ✓ | ✓ | ✓ | | | |
| MECH | 4334 | Mechanical System Contol | MECH 3345 | none | ✓ | ✓ | ✓ | ✓ | | | |
| MECH | 4336 | Principles of Engineering Design | MECH 3334 | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 4345 | Communications and Mechanical Sensor Protocols | MECH 3345 | none | ✓ | ✓ | ✓ | ✓ | | | |
| MECH | 4346 | Mechatronics | MECH 3345 | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MECH | 4366 | Senior Design Project | CE 2326* & MECH 3334 Must be in final semester | none | X | X | X | ✓ | ✓ | ✓ | ✓ |
| MECH | 4392 | Special Topics in Computation | Restricted to SR | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MECH | 4393 | Special Topics in Electro-Mechanical | MECH 3345 Restricted to SR | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MECH | 4394 | Special Topics in Thermal Fluid Area | MECH 3312 Restricted to SR | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MECH | 4395 | Special Topics in Solid Mechanics Area | MECH 3334 Restricted to SR | none | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

a -- CE 2315 is an equivalent course.
b -- CE 2334 is an equivalent course.
c -- EE 2350 is an equivalent course.

Last Update 5-23-2022