

# Mechanical Engineering Technology - Design Major

## Engineering & Information Technologies

2026-2027 Curriculum

| Course     | Title                                      | Prerequisites | Lec | Lab | Credit Hours |
|------------|--------------------------------------------|---------------|-----|-----|--------------|
| Semester 1 |                                            |               |     |     |              |
| ENG-101    | English Composition 1                      |               | 3   | 0   | 3            |
| FYE-1XX    | First Year Experience Elective             |               | 1   | 0   | 1            |
| MAT-XXX    | Mathematics Elective 1                     |               | 3   | 2   | 4            |
| MET-100    | Intro to Mechanical Engineering Technology |               | 1   | 2   | 2            |
| MET-111    | Manufacturing Processes 1                  |               | 2   | 3   | 3            |
| MET-131    | MET Computer Aided Drafting 1              |               | 2   | 3   | 3            |
|            |                                            |               |     |     | 16           |

|            |                                         |                    |   |   |    |
|------------|-----------------------------------------|--------------------|---|---|----|
| Semester 2 |                                         |                    |   |   |    |
| ENG-10X    | English Composition Elective            | ENG 101            | 3 | 0 | 3  |
| MAT-XXX    | Mathematics Elective 2                  |                    | 3 | 2 | 4  |
| MET-132    | MET Computer Aided Drafting 2           | MET 131            | 2 | 3 | 3  |
| MET-140    | Engineering Materials                   | MET 111 & MAT 124  | 2 | 2 | 3  |
| MET-150    | Statics & Strength of Materials for MET | MAT 124 or MAT 125 | 2 | 3 | 3  |
|            |                                         |                    |   |   | 16 |

|            |                                        |         |   |    |   |
|------------|----------------------------------------|---------|---|----|---|
| Semester 3 |                                        |         |   |    |   |
| MET-291    | Full-Time Cooperative Education 1: MET | MET 100 | 1 | 40 | 2 |
|            |                                        |         |   |    | 2 |

|            |                                         |                    |   |   |    |
|------------|-----------------------------------------|--------------------|---|---|----|
| Semester 4 |                                         |                    |   |   |    |
| MET-240    | Hydraulics & Pneumatics                 | MET 150            | 2 | 3 | 3  |
| MET-250    | Machine Design                          | MET 150            | 3 | 3 | 4  |
| MET-285    | MET Capstone Project 1                  | See Catalog        | 2 | 3 | 3  |
| PHY-151    | Physics 1: Algebra & Trigonometry-Based | PHY 150 or MAT 125 | 3 | 3 | 4  |
|            |                                         |                    |   |   | 14 |

|            |                                            |                   |   |   |    |
|------------|--------------------------------------------|-------------------|---|---|----|
| Semester 5 |                                            |                   |   |   |    |
| EET-101    | Electronic Fundamentals 1                  |                   | 2 | 3 | 3  |
| MET-260    | Applied Thermodynamics                     | MET 150 & MAT 124 | 2 | 2 | 3  |
| MET-2XX    | Technical Elective                         |                   | 2 | 3 | 3  |
| MET-290    | MET Capstone Project 2                     | MET 285           | 2 | 3 | 3  |
| XXX-XXX    | Arts/Humanities or Social/Science Elective | ENG 101           | 3 | 0 | 3  |
|            |                                            |                   |   |   | 15 |

|            |                                        |         |   |    |                 |
|------------|----------------------------------------|---------|---|----|-----------------|
| Semester 6 |                                        |         |   |    |                 |
| MET-292    | Full-Time Cooperative Education 2: MET | MET 291 | 1 | 40 | 2               |
|            |                                        |         |   |    | 2               |
|            |                                        |         |   |    | Total <b>65</b> |

Arts/Humanities/Social/Science Elective: Choose from CULT, ECO, GEO, HST, LBR, PHI, POL, PSY, SOC

English Comp. Elective: ENG 102, ENG 104, ENG 105

First Year Experience: FYE 100, FYE 105, FYE 110

Mathematics Electives: Take one of the following series: MAT 125 and MAT 126; or MAT 251 and MAT 252

Technical Electives: MET 233, MET 270