# Bachelor of Science in Engineering Technology 2027-2028 (proposed)

## Manufacturing Technology



Field-of-study course | ET core course | Required, outside the field | Open elective slot

### Freshman Fall

**TECH 1711 (3)**
Manufacturing Process I
**ET core, fixed semester**
**Leads to: TECH 4472 (Jr Fa)**

### Freshman Spring

**TECH 1521 (3)**
Graphics/ Descriptive Geometry
**ET core, fixed semester**
**Leads to: TECH 4472 (Jr Fa)**

**TECH 1811 (3)**
Electronic Circuit Technology
**ET core, fixed semester**
**Leads to: TECH 4474 (Sr Fa)**

### Sophomore Fall

1 elective slot

**TECH 4460 (3)**
Work Design/ Improvement
**Window: So Fa, Jr Fa, Sr Fa**
**Leads to: TECH 4466 (Jr Sp)**

### Sophomore Spring

2 elective slots

**TECH 3401 (3)**
Strength of Materials
Needs: MATH 1910 (Fr Sp), PHYS 2010 (So Fa), PHYS 2011 (So Fa)
Take with: TECH 3044 (same term or earlier)
**Window: So Sp, Jr Sp**
**Leads to: TECH 4472 (Jr Fa), TECH 3573 (Sr Fa)**

**TECH 3421 (4)**
Manufacturing Process II
**Window: So Fa - Sr Fa**
**Leads to: TECH 4476 (Jr Sp), TECH 4571 (Sr Sp)**

**TECH 3044 (4)**
Analysis for Engineering Tech
**ET core, fixed semester**
**Leads to: TECH 3573 (Sr Fa)**

**TECH 3440 (3)**
Project Plan/Cost Evaluation
**ET core, fixed semester**
**Leads to: TECH 4466 (Jr Sp), TECH 4474 (Sr Fa)**

Proposed sequence and fall/spring rotation (2026-10-07, effective Fall 2027). Rows are semesters; arrows are prerequisites.

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### Junior Fall
2 elective slots

**TECH 4464 (3)**
Production Control Systems
Take with: TECH 4460 (same term or earlier)
**Window: So Sp - Sr Fa**

**TECH 4472 (3)**
Computer Aided Design
**After: TECH 1711 (Fr Fa), TECH 1521 (Fr Sp), TECH 3401 (So Sp)**
Or: Junior standing + MECH 2320/2332 instead of TECH 3401
**Window: Jr Fa - Sr Fa**

### Junior Spring
2 elective slots

**TECH 4466 (3)**
Facility Design
**After: TECH 4460 (So Fa), TECH 3440 (So Sp)**
**Window: Jr Fa - Sr Sp**

**TECH 4476 (3)**
Computer Aided Manufacturing
**After: TECH 3421 (So Sp)**
Needs: MATH 1730 (Fr Fa)
**Window: Jr Sp, Sr Sp**

### Senior Fall
2 elective slots

**TECH 3573 (3)**
Dynamics/Design/Automation
**After: TECH 3044 (So Sp), TECH 3401 (So Sp)**
Needs: PHYS 2010 (So Fa), PHYS 2011 (So Fa)
**Window: Jr Fa - Sr Sp**

**TECH 4474 (3)**
Automation and Robotics
**After: TECH 1811 (Fr Sp), TECH 3440 (So Sp)**
Needs: PHYS 2010 (So Fa)
**Window: Jr Fa - Sr Sp**

### Senior Spring
2 elective slots

**1 open slot any technical elective**

**TECH 4571 (3)**
Tool Design
**After: TECH 3421 (So Sp)**
**Window: Jr Sp - Sr Sp**

Proposed sequence and fall/spring rotation (2026-10-07, effective Fall 2027). Rows are semesters; arrows are prerequisites.