<table>
<thead>
<tr>
<th>Course Subject and Title</th>
<th>Cr.</th>
<th>Min. Grade</th>
<th><strong>GE, UU or UM</strong></th>
<th><strong>Sem., Offered</strong></th>
<th>Prerequisite</th>
<th>Co Requirement</th>
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<tbody>
<tr>
<td>GE Objective 1: ENGL 1101 English Composition</td>
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<td>MACH 0110: Machine Tool Lab I (early 8 weeks)</td>
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<td>MACH 0112: Machine Math I (early 8 weeks)</td>
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| Semester Two                                         |
|------------------------------------------------------|-----|------------|-----------------|------------------|--------------|----------------|
| GE Objective 3: Review options with Advisor          | 3   | GE         |                 |                  |              |                |
| MACH 0115: Applied Machining Geometry (early 8 weeks)| 2   | D-         | F,S             |                  | MACH 0120    |                |
| MACH 0221: CAD and CAM Theory I (early 8 weeks)      | 3   | D-         | F,S             |                  | MACH 0220    |                |
| MACH 0131: CNC Mill Setup (early 8 weeks)            | 2   | D-         | F,S             |                  | MACH 0102    |                |
| MACH 0145: Geometric Dimensioning/Tolerancing I (early 8 weeks) | 1   | D-         | F,S             |                  | MACH 0145    |                |
| MACH 0135: Applied Machining Trigonometry (late 8 weeks) | 2   | D-         | F,S             |                  | MACH 0123    |                |
| MACH 0141: CNC Lathe Setup (late 8 weeks)            | 2   | D-         | F,S             |                  | MACH 0110    |                |
| MACH 0220: CAD and CAM Applications I (late 8 weeks) | 3   | D-         | F,S             |                  | MACH 0221    |                |
| MACH 0245: Geometric Dimensioning/Tolerancing II (late 8 weeks) | 1   | D-         | F,S             |                  | MACH 0145    |                |
| **Total**                                            |     |            |                 |                  |              | 19             |

| Semester Three                                       |
|------------------------------------------------------|-----|------------|-----------------|------------------|--------------|----------------|
| GE Objective 2: COMM 1101 Principles of Speech       | 3   | GE         |                 |                  |              |                |
| TGE 0158: Employment Strategies                      | 2   | D-         |                 |                  |              |                |
| MACH 0261: CNC Introduction to Theory (early 8 weeks)| 2   | D-         | F,S             | Su               | MACH 0265    |                |
| MACH 0265: Introduction to CNC Machine Practice (early 8 weeks) | 4   | D-         | F,S             | Su               | MACH 0135    |                |
| MACH 0270: CNC Machining Practice I (early 8 weeks)  | 4   | D-         | F,S             |                  | MACH 0271    |                |
| MACH 0271: CNC Programming Theory I (early 8 weeks)  | 2   | D-         | F,S             |                  | MACH 0270    |                |
| MACH 0272: CNC Math I (early 8 weeks)                 | 3   | D-         | F,S             |                  | MACH 0135    |                |
| **Total**                                            |     |            |                 |                  |              | 20             |

| Summer Semester                                      |
|------------------------------------------------------|-----|------------|-----------------|------------------|--------------|----------------|
| MACH 0275: CAD and CAM Theory II                     | 2   | D-         | F,S             | Su               | MACH 0280    |                |
| MACH 0280: CAD and CAM Applications II               | 4   | D-         | F,S             | Su               | MACH 0285    |                |
| MACH 0225: Interpreting Technical Data               | 1   | D-         | F,S             | Su               | MACH 0281    |                |
| **Total**                                            |     |            |                 |                  |              | 7              |

| Semester Four                                        |
|------------------------------------------------------|-----|------------|-----------------|------------------|--------------|----------------|
| GE Objectives 5: CHEM, GEOL, or PHYS (theory & lab)  | 4   | GE         |                 |                  |              |                |
| GE Objective 6: Select from options                  | 3   | GE         |                 |                  |              |                |
| MACH 0281: CNC Programming Theory II (early 8 weeks) | 1   | D-         | F,S             |                  | MACH 0271    | MACH 0290      |
| MACH 0290: CNC Machining Practice II (early 8 weeks) | 3   | D-         | F,S             |                  | MACH 0270    | MACH 0281      |
| MACH 0285: CAD and CAM Theory III (late 8 weeks)     | 2   | D-         | F,S             |                  | MACH 0275    | MACH 0291      |
| MACH 0291: CAD and CAM Applications III (late 8 weeks) | 4   | D-         | F,S             |                  | MACH 0280    | MACH 0285      |
| **Total**                                            |     |            |                 |                  |              | 17             |

*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major
**See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)
### General Education Objectives

- Satisfy 1, 2, 3, 5 and 6

### Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>CR</th>
<th>Description</th>
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<tbody>
<tr>
<td>MACH 0110 Machine Tool Lab I</td>
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<tr>
<td>MACH 0111 Machine Tool Theory I</td>
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<td>MACH 0112 Machine Math I</td>
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<td>MACH 0131 CNC Mill Setup</td>
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<tr>
<td>TGE 0158 Employment Strategies</td>
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</table>

### Total GE 16

### MAP Credit Summary

- Major: 64
- General Education Elective to reach 15 cr. min.: 1
- Undergraduate Catalog and GE Objectives: 4

### Total Totals

- General Education Objectives: 16
- Major: 64
- General Education: 16
- Free Electives: 60

### Graduation Requirement Minimum Credit Checklist

- Minimum 15 cr. General Education Objectives (Associate)
- Minimum 60 cr. Total (Associate)

### Advising Notes

**MAP Completion Status (for internal use only)**

- **Department:**
- **CAA or COT:** TIM
- **Registrar:** TIM 07/25/2019

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*Form Revised 1.24.2018*