

A Major Academic Plan (MAP) illustrates one efficient path toward completing a degree and includes only required courses and credits. A list of Major, General Education, and Elective credits, as well as a summary of required credit categories, are shown on page two. **Individual MAP customization by each student is expected.**

Catalog Year 2016-2017

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| Computerized Machining Technology - AAS | Credit Hours | Min. Grade | \*Attribute | \*\*When Offered | Pre & Co-requisites | |
| Semester One | | | | | |
| GE Objective 1: ENGL 1101 English Composition or ENGL 1101P | 3 or 4 | D- | GE |  |  | |
| MACH 0110: Engine Lathe Practice I (early 8 weeks) | 5 | D- |  | F, S | MACH 0111 | |
| MACH 0111: Engine Lathe Theory I (early 8 weeks) | 2 | D- |  | F, S | MACH 0110 | |
| MACH 0112: Machine Math I (early 8 weeks) | 2 | D- |  | F, S |  | |
| MACH 0120: Milling Practice I (late 8 weeks) | 5 | D- |  | F, S | MACH 0121 | |
| MACH 0121: Milling Theory I (late 8 weeks) | 2 | D- |  | F, S | MACH 0120 | |
| MACH 0123: Interpreting Blueprints (late 8 weeks) | 2 | D- |  | F, S |  | |
| Total | 21 |  |  |  |  | |
| Semester Two | | | | | |
| GE Objective 2: COMM 1101 Principles of Speech | 3 | D- | GE |  |  | |
| GE Objective 3: Mathematical Ways of Knowing | 3 | D- | GE |  |  | |
| MACH 0130: Engine lathe Practice II (late 8 weeks) | 5 | D- |  | F, S | MACH 0110 | |
| MACH 0136: Applied Machining Geometry & Trig (late 8 weeks) | 2 | D- |  | F, S | MACH 0112 | |
| MACH 0140: Milling Practice II (early 8 weeks) | 6 | D- |  | F, S | MACH 0120 | |
| Total | 19 |  |  |  |  | |
| Summer Semester | | | | | |
| MACH 0220: CAD and CAM I Applications | 3 | D- |  | Su | MACH 0221 | |
| MACH 0221: CAD and CAM I Theory | 3 | D- |  | Su | MACH 0220 | |
| MACH 0225: Interpreting Technical Data | 2 | D- |  | Su |  | |
| Total | 8 |  |  |  |  |
| Semester Three | | | | | |
| GE Objective 6: Social and Behavioral Ways of Knowing | 3 | D- | GE |  |  | |
| TGE 0158 Employment Strategies | 2 | D- |  | F, S |  | |
| MACH 0250: Advance Machining Practice I (early 8 weeks) | 7 | D- |  | F, S | MACH 0140 | |
| MACH 0261: CNC Introduction to Theory (late 8 weeks) | 2 | D- |  | F, S | MACH 0265 | |
| MACH 0265: Introduction to CNC Machine Practice (late 8 weeks) | 6 | D- |  | F, S | MACH 0261 | |
| MACH 0272: CNC Math I (early 8 weeks) | 2 | D- |  | F, S | MACH 0136 | |
| Total | 22 | D- |  |  |  | |
| Semester Four |  |  |  |  |  | |
| GE Objective 5: CHEM, GEOL, or PHYS (theory and lab) | 4 | D- | GE |  | (See advisor) | |
| 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 0275: CAD and CAM II (late 8 weeks) | 2 | D- |  | F, S | MACH 0220, MACH 0221 | |
| MACH 0281: CNC Programming Theory II (late 8 weeks) | 2 | D- |  | F, S | MACH 0271, MACH 0290 | |
| MACH 0290: CNC Machining Practice II (late 8 weeks) | 6 | D- |  | F, S | MACH 0281, MACH 0270 | |
| Total | 20 |  |  |  |  | |
| \*Key for Attribute: U=Upper division GE=General Education Objective  \*\*Key for When Offered: F=Fall S=Spring Su=Summer D=contact department (more…) | | | | | |

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| **2016-2017 Major Requirements** | **CR** | **2016-2017 GENERAL EDUCATION OBJECTIVES**  **Satisfy Objectives 1,2,3, 5, 6** | | **16 cr. min** | |
| **MAJOR REQUIREMENTS** |  | 1. Written English (3 cr. min) ENGL 1101 | | 3 | |
| MACH 0110: Engine Lathe Practice I (early 8 weeks) | 5 | 2. Oral Communication (3 cr. min) COMM 1101 | | 3 | |
| MACH 0111: Engine Lathe Theory I (early 8 weeks) | 2 | 3. Mathematics (3 cr. min) | | 3 | |
| MACH 0112: Machine Math I (early 8 weeks) | 2 | 6. Behavioral and Social Science | | 3 | |
| MACH 0120: Milling Practice I (late 8 weeks) | 5 | 5. Scientific Ways of Knowing (CHEM, GEOL, or PHYS [theory and lab]) | | 4 | |
| MACH 0121: Milling Theory I (late 8 weeks) | 2 |  | |  | |
| MACH 0123: Interpreting Blueprints (late 8 weeks) | 2 | **TOTAL** | | **16** | |
| MACH 0130: Engine lathe Practice II (late 8 weeks) | 5 |  | | | |
| MACH 0136: Applied Machining Geometry & Trig (late 8 weeks) | 2 |  | |  | |
| MACH 0140: Milling Practice II (early 8 weeks) | 6 |  | |  | |
| MACH 0220: CAD and CAM I Applications | 3 |  | |  | |
| MACH 0221: CAD and CAM I Theory | 3 |  | | | |
| MACH 0225: Interpreting Technical Data | 2 |  | |  | |
| MACH 0250: Advance Machining Practice I (early 8 weeks) | 7 |  | |  | |
| MACH 0261: CNC Introduction to Theory (late 8 weeks) | 2 |  | | | |
| MACH 0265: Introduction to CNC Machine Practice (late 8 weeks) | 6 |  | |  | |
| MACH 0272: CNC Math I (early 8 weeks) | 2 |  | |
| MACH 0270: CNC Machining Practice I (early 8 weeks) | 4 |  | | | |
| MACH 0271: CNC Programming Theory I (early 8 weeks) | 2 |  | |  | |
| MACH 0275: CAD and CAM II (late 8 weeks) | 2 |  | | | |
| MACH 0281: CNC Programming Theory II (late 8 weeks) | 2 |  | |  | |
| MACH 0290: CNC Machining Practice II (late 8 weeks) | 6 | GE Objectives Courses:  (University Catalog 2016-2017) | | | |
| TGE 0158 Employment Strategies | 2 |
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|  |  | **MAP Credit Summary** | | | **CR** |
|  |  | Major | | | 74 |
|  |  | General Education | | | 16 |
|  |  | Free Electives to reach 60 credits | | | 0 |
|  |  | TOTAL | | | 90 |
|  |  |  | | |  |
| **TOTAL** | **74** |  | | |  |
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| **Advising Notes** | |  | | |  |
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|  | | **Graduation Requirement Minimum Credit Checklist** | **YES** | | NO |
|  | | Min. of 15 credits of General Education Objectives |  | |  |
|  | | Min. of 60 credits |  | |  |
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