

**Catalog Year 2018-2019**

ADTC, Computerized Machining Technology - CNC

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is an efficient strategy only. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Elective, and university requirements (see pg.2) are based on Catalog Year.

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| --- | --- | --- | --- | --- | --- | --- |
| **Course Subject and Title** | **Cr.**  | **Min.** **Grade** | **\*GE,** **UU or UM** | **\*\*Sem. Offered** | **Prerequisite** | **Co Requisite** |
| Semester One |
| MACH 0110: Machine Tool Lab I (early 8 weeks) | 3 | D- |  | F,S |  | MACH 0111 |
| MACH 0111: Machine Tool Theory I (early 8 weeks) | 2 | D- |  | F,S |  | MACH 0110 |
| MACH 0112: Machine Math I (early 8 weeks) | 3 | D- |  | F,S |  |  |
| MACH 0120: Machine Tool Lab II (late 8 weeks) | 3 | D- |  | F,S |  | MACH 0121 |
| MACH 0121 Machine Tool Theory II (late 8 weeks) | 2 | D- |  | F,S |  | MACH 0120 |
| MACH 0123: Blueprint Reading (late 8 weeks) | 1 | D- |  | F,S |  |  |
|  Total | **14** |  |  |  |  |  |
| Semester Two |
| GE Objective 1: ENGL 1101 English Composition | 3 | C- | GE |  | Appropriate Placement Score |  |
| MACH 0115: Applied Machining Geometry (early 8 weeks) | 2 | D- |  | F,S |  |  |
| MACH 0131: CNC Mill Setup (early 8 weeks) | 2 | D- |  | F,S | MACH 0120 |   |
| MACH 0145: Geometric Dimensioning/Tolerancing I (early 8 weeks) | 1 | D- |  | F,S | MACH 0123 |  |
| MACH 0135: Applied Machining Trigonometry (late 8 weeks) | 2 | D- |  | F,S | MACH 0115 |  |
| MACH 0141: CNC Lathe Setup (late 8 weeks) | 2 | D- |  | F,S | MACH 0110 |  |
| MACH 0245: Geometric Dimensioning/Tolerancing II (late 8 weeks) | 1 | D- |  | F,S | MACH 0145 |  |
|  Total | **13** |  |  |  |  |  |
| Summer Semester |
| GE Objective 2: COMM 1101 Principles of Speech | 3 | C- | GE |   |  |  |
| MACH 0261: CNC Introduction to Theory | 2 | D- |  | F,S |  | MACH 0265 |
| MACH 0265: Introduction to CNC Machine Practice | 4 | D- |  | F,S |  | MACH 0261 |
|  Total | **9** |  |  |  |  |  |
| Semester Three |
| TGE 0158: Employment Strategies | 2 | D- |  | D |  |  |
| MACH 0230: CNC Mill Operations (early 8 weeks) | 8 | D- |  | D | MACH 0261 |  |
| MACH 0240: CNC Lathe Operations | 8 | D- |  | D | MACH 0261 |  |
|  |  |  |  |  |  |  |
|  Total | **18** |  |  |  |  |  |
| \*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.)  |

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| **2018-2019 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****\* Satisfy 1 and 2, only** | **6 Cr.****Min** |
| **Computerized Mach Tech-CNC, ADTC: MAJ REQUIREMENTS** | **48** | 1. Written English (6 cr. min) ENGL 1101 (or equivalent) | 3 |
| MACH 0110 Machine Tool Lab I | 3 |   |  |
| MACH 0111 Machine Tool Theory I | 2 | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| MACH 0112 Machine Math I | 3 | 3. Mathematics (3 cr. min)  |  |
| MACH 0115 Applied Machining Geometry | 2 | 4. Humanities, Fine Arts, Foreign Lang. |
| MACH 0120 Machine Tool Lab II | 3 |  |  |
| MACH 0121 Machine Tool Theory II | 2 |  |  |
| MACH 0123 Blueprint Reading | 1 | 5. Natural Sciences **(1 Course including a lab; 4 cr. min)**  |
| MACH 0131 CNC Mill Setup | 2 |  |  |
| MACH 0135 Applied Machining Trigonometry | 2 |  |  |
| MACH 0141 CNC Lath Setup | 2 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** |
| MACH 0145 Geometric Dimensioning and Tolerancing I | 1 |  |  |
| MACH 0230 CNC Mill Operations  | 8 |  |  |
| MACH 0240 CNC Lathe Operations | 8 | **One Course from EITHER Objective 7 OR 8** |
| MACH 0245 Geometric Dimensioning and Tolerancing II | 1 | 7. Critical Thinking  |  |
| MACH 0261 CNC Introduction to Theory | 2 | 8. Information Literacy  |
| MACH 0265 Introduction to CNC Machine Practice | 4 | 9. Cultural Diversity  |
| TGE 0158 Employment Strategies | 2 |  |  |
|  |  | General Education Elective to reach 15 cr. min.  |
|  |  |   |  |
|  |  |  **Total GE** | **6** |
|  |  | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  |
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|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 48 |
|  |  | General Education  | 6 |
|  |  | Free Electives to reach 60 | 0 |
|  |  |  TOTAL | 54 |
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|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 15 cr. General Education Objectives (Associate) |  |
|  |  | Minimum 60 cr. Total (Associate) |  |  |
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| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
|  |  | *Date* |
|  | *Department:*  |  |
|  | *CAA or COT:* | CZ, 12/7/17 |
|  | *Registrar:*  |  |
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 Form Revised 1.24.2018