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| --- |
| Student Name (First Last):       Staff Initials:       Date: |

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| Manufacturing Technologies Degree | | | | | | | |
| Associate of Applied Technologies Degree (AAT) | | | | | | | |
| **Admissions Date:** Fall, Winter, Spring, & Summer quarters. | | | | | | | |
| **Contact email:** [Nathan.Baker@cptc.edu](mailto:Nathan.Baker@cptc.edu) or [Francis.Ferguson@cptc.edu](mailto:Francis.Ferguson@cptc.edu)  **Program Counselor:** [Taylor.McGovern@cptc.edu](mailto:Taylor.McGovern@cptc.edu) | |  | |  |  | | |
| **Program Requirements - First quarter program classes require instructor permission codes** | | | | | | | |
| **Prerequisites:** None. | | | | | | | |
| AAT Required General Education Courses | | | **Credits** | | | **Quarter**  **Taken** |
| COLL 102 College Success for All | | | 3 | | |  |
| ENGL& 101 English Composition, **or** CMST& 220 Public Speaking ***(pre-req ENG 094 or equivalent)*** | | | 5 | | |  |
| PSYC& 100DIV , **or** SOC& 101DIV , **or** PSY 112DIV ***(pre-req ENG 094 or equivalent)*** | | | 5 | | |  |
| Any 100 Level Math Class ***or higher*** ***(pre-req MAT 092 or equivalent)*** | | | 5 | | |  |
| ***AAT Required General Education Courses Total Credits*** | | | ***18*** | | |  |
|  | | |  | | |  |
| ***\*Indicates a course appropriate for a first-quarter student*** | | |  | | |  |
| Technical Program Courses | | | **Credits** | | | **Quarter Taken** |
| Q1 | FSME 101 Workshop Safety\* | | 3 | | |  |
| FSME 110 Quality Principles, Inspection and Test\* | | 4 | | |  |
| FSME 114 Fabrication Fundamentals I\* | | 4 | | |  |
| FSME 116 Fabrication Fundamentals II\* | | 4 | | |  |
| **COLL 102 College Success for All** | |  | | |  |
| Q2 | MCH 115 Standard Operating Procedures of Lathes & Mills | | 8 | | |  |
| MCH 135 Tool & Cutter Grinding | | 4 | | |  |
| **Math 105 or Higher *(pre-req MAT 092 or equivalent)*** | |  | | |  |
| Q3 | MCH 123 Lathes & Mills II | | 5 | | |  |
| MCH 129 Surface Grinding | | 4 | | |  |
| MCH 209 Metallurgy & Heat Treatment | | 4 | | |  |
| Q4 | MCH 197 Introduction to CAD/CAM | | 4 | | |  |
| MCH 204 Introduction to CNC | | 8 | | |  |
| **ENGL& 101 or Higher *(pre-req ENG 094 or equivalent)*** | |  | | |  |

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| Q5 | MCH 214 Intermediate CNC | | | | | 6 |  |
| MCH 207 Inspections & Techniques | | | | | 4 |  |
| MCH 199 Industrial Survey | | | | | 6 |  |
|  | **PSYC&100 or Other Diversity Class *(pre-req ENG 094 or equivalent)*** | | | | |  |  |
| Q6 | MCH 212 Advanced CAD/CAM | | | | | 4 |  |
| MCH 220 Advanced CNC | | | | | 10 |  |
| MCH 235 Capstone Portfolio or MCH 241 Internship | | | | | 5 |  |
| MCH 240 Training & Practice ***(Optional)*** | | | | | 1-10 |  |
| ***Manufacturing Technologies Technical Program Courses Credits*** | | | | | ***87*** | |
| ***Total Credits for Completion*** | | | | | ***105*** | |
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| **Developmental Math** | | | | |  |  |
| * MAT 092 Pre-Algebra ***(must complete prior to MAT 105, MAT 103)*** | | | | | 5 |  |
| * MAT 094 Introduction to Algebra | | | | | 5 |  |
| * MAT 99 Intermediate Algebra ***(must complete prior to MAT 110, MATH& 141, MATH& 146)*** | | | | | 5 |  |
| **Developmental English** | | | | |  |  |
| * ENG 091 Basic Reading & Writing | | | | | 5 |  |
| * ENG 094 Advanced Reading & Writing | | | | | 5 |  |
| **Quarterly Self Planning Grid** | | | | | | |
| **Quarter 1** | | **Quarter 2** | **Quarter 3** | **Quarter 4** | | |
|  | |  |  |  | | |
| Class: | | Class: | Class: | Class: | | |
| Class: | | Class: | Class: | Class: | | |
| Class: | | Class: | Class: | Class: | | |
| Class: | | Class: | Class: | Class: | | |
| **Quarter 5** | | **Quarter 6** | **Quarter 7** | **Quarter 8** | | |
|  | |  |  |  | | |
| Class: | | Class: | Class: | Class: | | |
| Class: | | Class: | Class: | Class: | | |
| Class: | | Class: | Class: | Class: | | |
| Class: | | Class: | Class: | Class: | | |

***\*Please check in periodically with Advising and Counseling regarding any potential changes to program course requirements***