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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 or Francis.Ferguson@cptc.edu **Program Counselor:** 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***