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| Datatel Program Code | MAN.AAS |
| COTC Major Number | 003060 |
| CIP Code | 15.0613 |

A grade of C (2.00) or better is required for all Technical category courses listed as prerequisites for advanced courses.

The student who successfully completes the courses listed below on this Plan of Study will earn an Associate of Applied Science Degree in Manufacturing Engineering Technology.

KEY: * Indicates this course has a prerequisite; please see the Course Description Section on the COTC Web Page

NT - Indicates this course fulfills a Non-Technical Course Requirement on this Plan of Study

NT Elec - Indicates Elective Choice in the Non-Technical course requirement category

T - Indicates this course fulfills a Technical Course Requirement on this Plan of Study

T Elec - Indicates Elective Choice in the Technical course requirement category

TAG, C-TAG, OTM - Designation in this column indicates this course has been approved by the Ohio Board of Regents as a Transfer Assurance Guide (TAG), Career Technical Assurance Guide (C-TAG), or Ohio Transfer Module (OTM) course. Please follow this link on the COTC web site for more information: <http://www.cotc.edu/current-students/tags-transfer-module/Pages/index.aspx>

| Course Name | Course Title | Course Credit Hours | Weekly Contact Hours | Tech, Non-Tech or Elective | Semester(s) Course Offered | SEM Course Approved As A TAG, C-TAG or OTM | Equivalent Quarter Course | Equivalent Quarter Cr Hrs |
|---|--|---------------------|----------------------|----------------------------|----------------------------|--|---------------------------|---------------------------|
| SEMESTER 1 | | | | | | | | |
| * ENGL-112 | Composition I | 3.00 | 4.00 | NT | SM,AU,SP | OTM | COM-1535 | 4.00 |
| IDS-100 | Campus Connections | 1.00 | 2.00 | NT | SM,AU,SP | ---- | None | ---- |
| MANF-100 | Principles of Machining | 2.00 | 3.00 | T | AU | ---- | AMT-3437 | 3.00 |
| * MANF-105 | Metrology | 2.00 | 2.00 | T | AU | ---- | AMT-3434 & AMT-3435 | 2.00 & 2.00 |
| * MATH-150 | Pre-Calculus | 5.00 | 5.00 | NT | SM,AU,SP | OTM | MTH-1216 | 5.00 |
| TOTAL CREDIT & CONTACT HOURS | | 9.00 | 10.00 | | | | | |
| SEMESTER 2 | | | | | | | | |
| * ENGL-208 | TECHNICAL WRITING | 3.00 | 4.00 | NT | SM,AU,SP | TAG | COM-1525 | 3.00 |
| ETA-107 | OSHA 30 | 2.00 | 2.00 | NT | SP | ---- | ETA-3071 | 3.00 |
| MANF-104 | Principles of Manufacturing | 3.00 | 5.00 | T | SP | ---- | AMT-3413 & AMT-3433 | 2.00 & 3.00 |
| * MANF-122 | Machining Turning and Milling | 4.00 | 8.00 | T | SP | ---- | AMT-3438 & AMT-3439 | 3.00 & 3.00 |
| * PHYS-100 | General Physics | 4.00 | 4.00 | NT | SM,AU,SP | ---- | PHY-1721 | 5.00 |
| TOTAL CREDIT & CONTACT HOURS | | 16.00 | 23.00 | | | | | |
| SEMESTER 3 (SUMMER) | | | | | | | | |
| * PHIL-200 | INTRODUCTION TO ETHICS | 3.00 | 3.00 | NT | SM,AU,SP | OTM,TAG | BHS-1340 | 3.00 |
| SPCH-100 | Fundamentals of Communication | 3.00 | 3.00 | NT | SM,AU,SP | TAG | COM-1534 | 4.00 |
| | Non-Technical Elective - Social & Behavioral Science | 3.00 | 3.00 | NT Elec | | | See Choices Below | |
| TOTAL CREDIT & CONTACT HOURS | | 9.00 | 9.00 | | | | | |
| SEMESTER 4 | | | | | | | | |
| BIO-105 | Environmental Science | 4.00 | 5.00 | NT | SM,AU,SP | OTM | BIO-1730 | 5.00 |
| MANF-201 | Materials in Manufacturing | 2.00 | 3.00 | T | AU | ---- | AMT-3447 | 3.00 |
| MANF-202 | CAD for Machining | 3.00 | 7.00 | T | AU | ---- | AMT-3434 & AMT-3436 | 2.00 & 4.00 |
| MANF-270 | LEAN MANUFACTURING | 3.00 | 3.00 | T | AU | ---- | EMT-3210 | 4.00 |
| TOTAL CREDIT & CONTACT HOURS | | 12.00 | 18.00 | | | | | |

The College Reserves the Right to Change Curricula Without Notice.

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| Datatel Program Code | MAN.AAS |
| COTC Major Number | 003060 |
| CIP Code | 15.0613 |

| Course Name | Course Title | Course Credit Hours | Weekly Contact Hours | Tech, Non-Tech or Elective | Semester(s) Course Offered | SEM Course Approved As A TAG, C-TAG or OTM | Equivalent Quarter Course | Equivalent Quarter Cr Hrs |
|---|---|---------------------|----------------------|----------------------------|----------------------------|--|---------------------------|---------------------------|
| SEMESTER 5 | | | | | | | | |
| ENGR-205 | ENGINEERING TECHNOLOGY LEADERSHIP AND SUPERVISION | 2.00 | 2.00 | T | SP | ----- | None | ----- |
| * MANF-203 | Statistical Process Control | 2.00 | 2.00 | T | SP | ----- | AMT-3415 | 3.00 |
| * MANF-204 | CNC Graphic Programming | 3.00 | 5.00 | T | SP | ----- | AMT-3448 | 4.00 |
| * MANF-222 | CNC-Turning and Milling | 4.00 | 8.00 | T | SP | ----- | AMT-3475 & AMT-3476 | 3.00 & 3.00 |
| TOTAL CREDIT & CONTACT HOURS | | 11.00 | 17.00 | | | | | |
| SEMESTER 6 | | | | | | | | |
| ENGR-296 | ENGINEERING TECHNOLOGY CO-OP | 3.00 | 21.00 | T | SP,SM | ----- | AMT-294/295/296 | 1.00 & 2.00 |
| TOTAL CREDIT & CONTACT HOURS | | 3.00 | 21.00 | | | | | |

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| Total Semester Credit Hours Required for Completion of Degree | 60.00 |
| <i>Non-Technical Required Semester Credit Hours</i> | 35.00 |
| <i>Technical Required Semester Credit Hours</i> | 33.00 |

| Non-Technical Elective - Social and Behavioral Sciences | | | | | | | | |
|---|------------------------------|------|------|---------|----------|---------|----------|------|
| Total of 3.00 Semester Credit Hours Required to Complete this Degree | | | | | | | | |
| ECON-105 | Principles of Microeconomics | 3.00 | 3.00 | NT Elec | SM,AU,SP | TAG,OTM | BMT-2025 | 4.00 |
| * PSY-100 | Introduction to Psychology | 3.00 | 3.00 | NT Elec | SM,AU,SP | TAG,OTM | BHS-1376 | 5.00 |
| * SOC-100 | Introduction to Sociology | 3.00 | 3.00 | NT Elec | SM,AU,SP | TAG,OTM | BHS-1382 | 3.00 |
| * SOC-110 | Cultural Diversity | 3.00 | 3.00 | NT Elec | SM,AU,SP | TAG,OTM | BHS-1379 | 3.00 |

| Technical Electives | | | | | | | | |
|----------------------------|--|------|------|--------|----|-------|----------|-------|
| ENGR-105 | Introduction to the Oil and Gas Industry | 3.00 | 3.00 | T | AU | ----- | None | ----- |
| MECH-200 | ALTERNATIVE AND RENEWABLE ENERGY SOURCES | 3.00 | 5.00 | T Elec | SP | ----- | EMT-3201 | 3.00 |