[Industrial Maintenance Technology – Industrial Maintenance Technician](https://bluegrass.kctcs.edu/education-training/program-finder/industrial-maintenance.aspx)

Diploma

Coordinator: Mike Binzer (mike.binzer@kctcs.edu) 859-246-6518

Student Name: Student ID:

*Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.*

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| MAT 116 Technical Mathematics ORhigher-level Quantitative Reasoning course | 3 |  |  |  |  |
| ELT 110 Circuits I\* OR IMT 110 Ind. Maint. Electrical Princ. ANDIMT 111 Ind. Maint. Electrical Princ. Lab | 5 |  |  |  |  |
| Technical Elective | 5 |  |  |  | ELT 114 recommended |
| Total Semester Credit Hours | 13 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
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| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| EET 270 Electrical Motor Controls I and EET 271 Electrical Motor Controls I Lab | 4 |  |  | IMT 110 or ELT 110 or Consent of Instructor |  |
| IMT 150 Maint. Industrial Equipment I ANDIMT 151 Maint. Industrial Equip I Lab ORFPX 100 Fluid Power ANDFPX 101 Fluid Power Lab | 5 |  |  |  | See note |
| Digital Literacy | 0 – 3  |  |  |  |  |
| BRX 120 Basic Blueprint Reading OR BRX 110 Basic Blueprint Reading for Mach. | 2 – 3 |  |  |  |  |
| Total Semester Credit Hours | 11 – 15 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| Written Communication OROral Communication OR Heritage/Humanities course | 3 |  |  |  |  |
| EET 276 Programmable Logic Controllers and EET 277 Programmable Logic Controllers Lab | 4 |  |  | EET 270 & 271 or Consent of Instructor |  |
| Technical Elective (EET 272/273 recommended) | 4  |  |  |  |  |
| Technical Elective | 3 |  |  |  |  |
| Total Semester Credit Hours | 14 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| IMT 100 Welding for Maintenance and IMT 101 Welding for Maintenance Lab | 5 |  |  |  |  |
| IMT 289 Capstone | 1 |  |  |  |  |
| IMT 100 Welding for Maintenance ANDIMT 101 Welding for Maintenance Lab | 5 |  |  |  |  |
| Total Semester Credit Hours | 12 |  |  |  |  |
| Total Diploma Credit Hours | 50 – 54 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Diploma Credit Hours must be earned at BCTC.
* Cumulative GPA must be 2.0 or higher.

Advisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Additional Information**

* Students must complete MAT 11 (Modules 5-8) or 075 or demonstrate an equivalent placement level before enrolling in an ELT class.
* FPX 100 and FPX 101 can be taken in the Second Semester if they are not available in the First Semester.
* IMT 150 and IMT 151 can be taken in the First Semester if FPX 100 and FPX 101 are not available in the First Semester.
* Students must earn a grade of C or better in all technical courses and a cumulative 2.0 GPA to continue in the Industrial Maintenance Technology program.
* Courses listed in 3rd and 4th semester can be taken in any order due to availability. It is recommended that some General Education and Technical Electives be taken in the summer to ease load and schedule during the Fall and Spring semesters.

**The following alternatives may be taken for program classes:**

* BRX 120 = BRX 110, BRX112, ELT102, CAD100
* CMM114 = CMM110/112, IMT115/116
* EET270/271 = IMT220/221, ELT244, IMT 120/121, EET264/265
* EET276/277= IMT280/281, IET203, ELT 250
* FPX100/101 = ELT265
* IMT100/101 = WLD120/121, WLD140/141, WLD152
* IMT 110/111 = ELT 110, EET119

**Recommended Technical Elective Courses**

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| --- | --- | --- |
| Course | Cr. Hrs. | Prerequisites |
| CMM 110 Fundamentals of Machine Tools – A  | 3 |  |
| CMM 112 Fundamentals of Machine Tool – B  | 3 |  |
| CMM 114 Fundamentals of Machine Tools  | 6 |  |
| CMM 132 CAD / CAM / CNC | 3 |  |
| EET 272 Electrical Motor Controls II | 3 | EET 270, Coreq: EET 273 |
| EET 273 Electrical Motor Controls II Lab | 2 | EET 270, Coreq: EET 272 |
| EET 276 Programmable Logic Controllers | 2 | ELT 110, EET 270 and EET 272, Coreq: EET 277 |
| EET 277 Programmable Logic Controllers Lab | 2 | ELT 110, EET 271 and EET 273, Coreq: EET 276 |
| ELT 114 Circuits II | 5 | ELT 110 |
| IMT 200 Industrial Robotics and Robotic Maint. | 4 | Instructor Consent |
| IET 1301 Safety Culture | 1 |  |
| IET 1302 5S | 1 |  |
| IET 1303 Total Production Management | 1 |  |
| IET 1304 Problem Solving | 1 |  |
| IET 1305 Maintenance Reliability | 1 |  |
| Any IMT, EET, or ELT course approved by Industrial Maintenance Program Coordinator | 1 – 18 |  |

*Reviewed by: Mike Binzer Effective Term: Fall 2021*

 *Review Date: 03-09-2021*