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**Industrial Maintenance Technology – Industrial Maintenance Track**

**Associate in Applied Science degree**

**Program Coordinator: Mike Binzer E-mail: mike.binzer@kctcs.edu Phone: 859-246-6518**

[**Program Website**](https://bluegrass.kctcs.edu/education-training/program-finder/industrial-maintenance.aspx)

**Student Name: Student ID:**

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

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| **First Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| MAT 116 Technical Mathematics or higher-level Quantitative Reasoning course | 3 |  |  |  |  |
| ELT 110 Circuits I\* OR IMT 110 and Industrial Maint. Electrical Principles and IMT 111 Industrial Maintenance Electrical Principle Lab | 5 |  |  |  |  |
| IMT 150 Maintaining Industrial Equipment I and  IMT 151 Maintaining Industrial Equipment I Lab OR  FPX 100 Fluid Power and FPX 100 Fluid Power Lab | 5 |  |  |  | If IMT 150/151 in 1st semester then FPX 100/ 101 in 2nd semester |
| Technical Elective | 5 |  |  |  | ELT 114 recommended |
| **Total Semester Credit Hours** | **18** |  |  |  |  |

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| **Second Semester** | **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 |  |
| FPX 100 Fluid Power and FPX 101 Fluid Power Lab OR  IMT 150 Maintaining Industrial Equipment I and IMT 151 Maintaining Industrial Equipment I Lab | 5 |  |  |  | If FPX 100/101 in 1st semester then IMT 150/ 151 in 2nd semester |
| ENG 101 Writing I | 3 |  |  |  |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **15** |  |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | | **Grade** | | **Prerequisites** | | **Notes** | |
| BRX 120 Basic Blueprint Reading or BRX 110 for Machinist | 2-3 | |  | |  | |  | |  | |
| EET 276 Programmable Logic Controllers and EET 277 Programmable Logic Controllers Lab | 4 | |  | |  | | Consent of Instructor, Coreq: EET 277 | |  | |
| Technical Elective | 4 | |  | |  | |  | | EET 272/273 recommended | |
| Natural Sciences course | 3 | |  | |  | |  | |  | |
| Social and Behavioral Sciences course | 3 | |  | |  | |  | |  | |
| **Total Semester Credit Hours** | **16-17** |  | |  | |  | |

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| **Fourth Semester** | **Cr. Hrs.** | | **Term** | | **Grade** | | **Prerequisites** | | **Notes** | |
| Technical Elective | 4 |  | |  | |  | | IMT 200 recommended | |
| IMT 100 Welding for Maintenance and IMT 101 Welding for Maintenance Lab | 5 |  | |  | |  | |  | |
| IMT 289 Capstone | 1 |  | |  | |  | |  | |
| Oral Communications course | 3 |  | |  | |  | |  | |
| Digital Literacy | 0 – 3 |  | |  | |  | |  | |
| **Total Semester Credit Hours** | **13 – 16** | |  | |  | |  | |
| **Total Degree Credit Hours** | **62 – 66** | |  | |  | |  | |

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

**Graduation Requirements:**

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

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| **Recommended Technical Electives List** | | |
| **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 Maintenance | 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 |  |

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| **Additional Information** |
| \* Students must complete MAT 065 or 075 or demonstrate an equivalent placement level before enrolling in an ELT class.  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 |