****

**Industrial Maintenance Technology Advanced Manufacturing Technician Track**

**Associate in Applied Science degree**

**EFFECTIVE FALL 2019**

**Program Coordinator: Ralph Potter E-mail: ralph.potter@kctcs.edu Phone: 859-246-6770**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/apprentice-opportunities/amt/index.aspx**](https://bluegrass.kctcs.edu/education-training/apprentice-opportunities/amt/index.aspx)

**Student Name: Student ID:**

***Students need to be at KCTCS placement levels for all courses***

|  |
| --- |
| **Pre-Admission Requirements** |
| **Student must be selected into this program by industry. Contact Ralph Potter for more information.** **Classes start each Fall semester.** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| FPX 100 Fluid Power | 3 | Fall |  |  |  |
| FPX 101 Fluid Power Lab | 2 | Fall |  |  |  |
| IMT 110 Industrial Maintenance Electrical Principles\* | 3 | Fall |  |  | \*See note on back. |
| IMT 111 Industrial Maintenance Electrical Principles Lab\* | 2 | Fall |  |  | \*See note on back. |
| MAT 116 Technical Mathematics or higher level Quantitative Reasoning course | 3 | Fall |  |  | MAT 126 Technical Algebra and Trigonometry is cohort course |
| Heritage or Humanities course | 3 | Fall |  |  | HIS 240 History of Kentucky is cohort course |
| IET 1301 Safety Culture | 1 | Fall |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| EET 270 Electrical Motor Controls I | 2 | Spring |  | IMT 110 or ELT 110 Coreq: EET 271 |  |
| EET 271 Electrical Motor Controls I Lab | 2 | Spring |  | IMT 110 or ELT 110 Coreq: EET 270 |  |
| IMT 150 Maintaining Industrial Equipment I | 3 | Spring |  | Coreq: IMT 151 |  |
| IMT 151 Maintaining Industrial Equipment I Lab | 2 | Spring |  | Coreq: IMT 150 |  |
| Oral Communications course | 3 | Spring |  |  | COM 252 Introduction to Interpersonal Communication is cohort course |
| Social and Behavioral Science course | 3 | Spring |  |  | SOC 101 Introduction to Sociology is cohort course |
| IET 1302 5S | 1 | Spring |  |  |  |
| **Total Semester Credit Hours** | **16** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Summer Term** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| BRX 120 Basic Blueprint Reading | 3 | Summer |  |  |  |
| IET 1303 Total Production Management | 1 | Summer |  |  |  |
| CMM 110 Fundamentals of Machine Tool – A  | 3 | Summer |  |  |  |
| **Total Semester Credit Hours** | **7** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| EET 276 Programmable Logic Controllers | 2 | Fall |  | Coreq: EET 277 |  |
| EET 277 Programmable Logic Controllers Lab | 2 | Fall |  | Coreq: EET 276 |  |
| EET 272 Electrical Motor Controls II | 2 | Fall |  | Coreq: EET 273 |  |
| EET 273 Electrical Motor Controls II Lab | 2 | Fall |  | Coreq: EET 272 |  |
| ENG 101 English | 3 | Fall |  |  |  |
| Digital Literacy | 3 – 4 | Fall |  |  | CAD 103 CAD Fundamentals is cohort course |
| IET 1304 Problem Solving  | 1 | Fall |  |  |  |
| **Total Semester Credit Hours** | **15 – 16** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| IMT 200 Industrial Robotics and Robotic Maintenance\*\* | 4 | Spring |  | IMT 110 and IMT 111 | \*\*See note below. |
| IMT 100 Welding for Maintenance | 3 | Spring |  |  |  |
| IMT 101 Welding for Maintenance Lab | 2 | Spring |  |  |  |
| Natural Sciences | 3 | Spring |  |  | PHY 171 Applied Physics is the cohort course |
| IET 1305 Maintenance Reliability  | 1 | Spring |  |  |  |
| IMT 289 Industrial Maintenance Technology Capstone | 1 | Spring |  | BRX 120, FRX 100/101, IMT 100/101, IMT 110/111, IMT 150/151 and IMT 220/221 |  |
| **Total Semester Credit Hours** | **14** |
| **Total Degree Credit Hours** | **69 – 70**  |

|  |
| --- |
| * **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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |
| --- |
| **Additional Information** |
| Applications for AMT program will be available from September 1 through December 31. Anyone interested in enrolling in the AMT program must complete the online AMT program application and submit the required documents to the address listed on the application form. An enrollment application to Bluegrass Community and Technical College is also required. Information about applications for both the AMT program and BCTC can be found at <https://bluegrass.kctcs.edu/education-training/apprentice-opportunities/amt/index.aspx>.To be considered for selection to the program, potential students must have no less than a 19 ACT Math and be 18 years of age by program start date, a current graduating senior, and a US citizen. There are no pre-requisite classes required to apply for this program. To be enrolled in the AMT program, the student must be sponsored by a manufacturing company that is a KY-FAME member. Presently, students selected for the AMT program will attend classes for 2 years including the summer term. Each course requires a letter grade of C or better upon completion. Students who finish the course with a letter grade lower than a C will lose sponsorship. Be advised that we will not be meeting with potential students until after the application process starts. Also, know that applying to the AMT program does not guarantee acceptance. The application of the potential AMT student and the entrance exam scores will be reviewed. If the requirements of the application are met, the potential student may be selected for an interview, once all interviews are completed, industry leaders will select which students they wish to sponsor. Please keep in mind that the process from application to selection is a lengthy process and that you will be contacted if selected for an interview, and then if selected for sponsorship. \*If IMT 110/111 Industrial Maintenance Electrical Principles and Lab are not available, ELT 110 Circuits I may be substituted with the approval of the Industrial Maintenance Technology Program Coordinator.\*\*If IMT 200 Industrial Robotics and Robotic Maintenance is not available, ELT 260 Robotic and Industrial Automation may be substituted with the approval of the Industrial Maintenance Technology Program Coordinator.  Students must earn a grade of C or better in all courses and maintain a cumulative GPA of 2.0 or better. Students may or may not receive credit toward this degree for past course work based on the sponsoring company’s expectations.  |