**Integrated Engineering Technology**

**Diploma**

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**Program Coordinator: Paul Turner E-mail:** [**paul.turner@kctcs.edu**](mailto:paul.turner@kctcs.edu) **Phone: 859-246-6717**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/integrated-engineering-technology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/integrated-engineering-technology.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** |
| IET 102 Preventive Maintenance | 2 |  |  |  |  |
| IET 104 Blueprint Reading Schematics | 2 |  |  |  |  |
| IET 107 Basic Electricity / Electronics | 3 |  |  |  |  |
| IET 108 Mechanical Drive Systems | 5 |  |  |  |  |
| IET 109 Safety | 3 |  |  |  |  |
| MAT 126 Technical Algebra and Trigonometry OR higher level Quantitative Reasoning course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| IET 120 Machine Tool Operations | 4 |  |  |  |  |
| IET 205 Robot Maintenance | 4 |  |  |  |  |
| IET 206 Controls and Instrumentation | 5 |  |  |  |  |
| CIT 105 Introduction to Computers OR Digital Literacy course | 3 |  |  |  |  |
| COE 199 Cooperative Education OR  COED 198 Practicum | 1 |  |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| IET 110 Welding and Fabrication | 4 |  |  |  |  |
| IET 201 Electrohydraulics / Pneumatics | 6 |  |  |  |  |
| IET 203 Programmable Logic Controllers | 5 |  |  |  |  |
| Written Communication, Oral Communication, OR Heritage/Humanities course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |  |
| **Total Diploma Credit Hours** | **53** |  |  |  |  |

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| * **25% or more of Total Diploma 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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| **Additional Information** |
| It is recommended that some General Education courses be taken in the summer to ease load and schedule during the Fall and Spring semesters. |

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| **Embedded Credentials** | | | |
| **Credential** | **Title** | **Requirements** | **Total Credit Hours** |
| Certificate | Electrical Engineering Technology | IET 107, IET 203, IET 205, IET 206 | 17 |
| Certificate | Mechanical Engineering Technology | IET 102, IET 108, IET 110, IET 120, IET 201 | 21 |

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| * **25% or more of Total Certificate Credit Hours must be earned at BCTC** * **Grade of C or higher in each course required for certificate** |

**Certificate Requirements:**