[Integrated Engineering Technology](https://bluegrass.kctcs.edu/education-training/program-finder/integrated-engineering-technology.aspx) - UK BS Lean Systems

Engineering Technology Pathway

Associate in Applied Science

Coordinator: Ralph Potter (ralph.potter@kctcs.edu) 859-246-6770

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 |
| Quantitative Reasoning – **MUST** consult an IET Advisor for appropriate placement | 3 |  |  |  | See Note 1 |
| ENG 101 Writing I  | 3 |  |  | Placement by KCTCS Assessment and Placement Policy. |  |
| IET 111 Lean Safety Culture | 1 |  |  |  |  |
| IET 207 Electro-hydraulics/Pneumatics | 4 |  |  |  |  |
| IET 121 Basic Electricity | 4 |  |  |  |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| IET 202 Motor Controls and Sensing Devices | 4 |  |  | IET 121 or EET 119 or ELT 110 or IMT 110 AND 111 |  |
| IET 208 Mechanical Drive Systems | 4 |  |  |  |  |
| IET 112 Lean Manufacturing Concepts | 1 |  |  |  |  |
| Natural Science - PHY 151 or 152 | 3 |  |  |  |  |
| ENG 102 - Writing II | 3 |  |  | ENG 101 |  |
| MAT 150 or MAT 170 (MAT 170 not mandatory to take this semester) | 3 |  |  |  | See Note 1 |
| Total Semester Credit Hours | 18 |  |  |  |  |

Summer 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| IET 104 Blueprint Reading/Schematics | 2 |  |  |  |  |
| IET 128 Machine Tool Operations ORCMM 110 Fund. of Machine Tools - A | 3 |  |  |  |  |
| IET 113 Lean 5S Methodology | 1 |  |  |  |  |
| MAT 150 College Algebra **OR** MAT 170 Brief Calculus with Applications (MAT 170 not mandatory this semester)  | 3 |  |  |  | See Note 1 |
| Total Semester Credit Hours | 6 – 9 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| IET 204 Automated Motor Controls | 6 |  |  |  |  |
| IET 114 Lean Problem-Solving Methodology | 1 |  |  |  |  |
| COM 181 - Oral Communications  | 3 |  |  |  |  |
| CAD 100 - Introduction to CAD (Serves as the Digital Literacy requirement) | 3 |  |  |  |  |
| Social and Behavioral Science (Not SOC 101) | 3 |  |  |  |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| IET 110 Welding and Fabrication | 4 |  |  |  |  |
| IET 205 Robot Maintenance | 4 |  |  |  |  |
| IET 115 Lean Machine Reliability | 1 |  |  |  |  |
| Heritage - HIS 109 | 3 |  |  |  |  |
| SOC 101 - Social and Behavioral Science-  | 3 |  |  |  |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Summer 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| MAT 170 - Brief Calculus with Applications(If not completed in previous semester) | 3 |  |  |  | See Note 1 |
| Total Semester Credit Hours | 3 |  |  |  |  |
| Total Degree Credit Hours | 74 – 77 |  |  |  |  |

**Graduation Requirements:**

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

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

**Additional Information**

Note 1: **MUST** consult an IET Advisor for appropriate Math placement.

Reviewed by: Ralph Potter Effective Term: Fall 2021

 Review Date: 04/10/2021