[Civil Engineering Technology](https://bluegrass.kctcs.edu/education-training/program-finder/civil-engineering-technology.aspx)

Associate in Applied Science

Coordinator: Todd Saladin ([todd.saladin@kctcs.edu](mailto:todd.saladin@kctcs.edu)) 859-246-6772

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 |
| CAD 100 Intro. to Computer Aided Design | 3 |  |  |  | Digital Literacy |
| CAD 102 Drafting Fundamentals | 4 |  |  |  |  |
| SMT 110 Principles of Surveying | 3 |  |  |  |  |
| ENG 101 Writing 1 | 3 |  |  |  |  |
| MAT 116 Technical Mathematics OR  higher-level Quantitative Literacy course | 3 |  |  |  |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CET 150 Civil Engineering Graphics | 3 |  |  | CAD 100 |  |
| CET 210 Infrastructure Analysis and Design | 3 |  |  | Consent of instructor |  |
| Technical Elective | 4 |  |  |  | See list |
| Technical Elective | 4 |  |  |  | See list |
| Total Semester Credit Hours | 14 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CET 200 Civil Engineering Materials OR  SMT 130 Land Surveying Graphics | 3 |  |  | Consent of instructor |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| Natural Science course | 3 |  |  |  |  |
| Technical Elective | 3 |  |  |  | See list |
| Technical Elective | 4 |  |  |  | See list |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CET 260 Hydrology and Drainage | 3 |  |  | Consent of instructor |  |
| CAD 298 Practicum OR  CAD 299/COE 199 Cooperative Education | 1 – 3 |  |  | Approval of Program Coordinator |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Oral Communications course | 3 |  |  |  |  |
| Technical Elective | 4 |  |  |  |  |
| Total Semester Credit Hours | 14 – 16 |  |  |  |  |
| Total Degree Credit Hours | 60 – 62 |  |  |  |  |

**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**

Students must earn a grade of C or better in each CAD, CET, SMT, mathematics and Technical Elective course as well as maintain a 2.0 cumulative GPA to progress in the CET program.

**Civil Engineering Technology Elective Courses**

|  |  |  |
| --- | --- | --- |
| Course | Cr. Hrs. | Prerequisites |
| Any course with a prefix of ACH, BRX, CAD, CET, COE, GIS or SMT |  |  |
| CAR 126 Intro to Construction | 3 |  |
| CAR 127 Intro to Construction Lab | 1 | Coreq: CAR 126 |
| CAR 140 Surveying & Foundations | 3 |  |
| CAR 141 Surveying & Foundation Lab | 1 | Coreq: CAR 140 |
| PLW 100 Introduction to Engineering Design | 4 |  |
| PLW 125 Principles of Engineering | 4 | PLW 100 |
| PLW 225 Civil Engineering and Architecture | 4 | PLW 100, PLW 125 and PLW 150 |
| PLW 295 Engineering Design and Development | 4 | PLW 150 and one of (PLW 200 or PLW 225 or PLW 250) or consent of instructor |
| TRU 100 Truck Driving | 6 | CDL Permit |
| Other courses approved by the CET Program Coordinator |  |  |

**Embedded Credentials**

|  |  |  |  |
| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. Hours |
| Diploma | Civil Engineering Technology | CAD 100, CAD 102, SMT 110, CET 150, CET 200 or SMT 130, CET 210, CET 260, CAD 298 or CAD 299 or COE 199, Technical Electives (19 credit hours), Written Communication or Oral Communications or Heritage/Humanities course, MAT 116 or higher level Quantitative Reasoning course | 48 – 50 |
| Certificate | Civil Engineering Technician I | CAD 100, CAD 102, SMT 110, Written Communication or Oral Communications or Heritage/Humanities course, MAT 116 or higher-level Quantitative Reasoning course | 16 |
| Certificate | Civil Engineering Technician II | CAD 100, CAD 102, SMT 110, CET 150, Technical Electives (3 – 4 credit hours), Written Communication or Oral Communications or Heritage/Humanities course, MAT 116 or higher-level Quantitative Reasoning course | 22 – 23 |
| Certificate | Civil Engineering Technician III | CAD 100, CAD 102, SMT 110, CET 150, CET 200 or SMT 130, CET 210, Technical Electives (3 – 4 credit hours), Written Communication or Oral Communications or Heritage/Humanities course, MAT 116 or higher-level Quantitative Reasoning course | 28 – 29 |

**Diploma Requirements:**

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

**Certificate Requirements:**

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

*Reviewed by: Todd Saladin Effective Term: Fall 2021*

*Review Date: 02-04-2021*