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

Diploma

Coordinator: Todd Saladin (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 |  |
| CET 260 Hydrology and Drainage | 3 |  |  | Consent of instructor |  |
| Technical Elective | 4 |  |  |  | See list |
| Technical Elective | 4 |  |  |  | See list |
| Total Semester Credit Hours | 17 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CET 200 Civil Engineering Materials OR SMT 130 Land Surveying Graphics | 3 |  |  | Consent of instructor |  |
| CAD 298 Practicum OR CAD 299/COE 199 Cooperative Education | 1 – 3 |  |  | Approval of Program Coordinator |  |
| Technical Elective | 3 |  |  |  | See list |
| Technical Elective | 4 |  |  |  | See list |
| Technical Elective | 4 |  |  |  | See list |
| Total Semester Credit Hours | 15 – 17 |  |  |  |  |
| Total Diploma Credit Hours | 48 – 50 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Diploma 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 |
| 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  |

**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*