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**Civil Engineering Technology**

**Diploma**

**Program Coordinator: Todd Saladin E-mail:** [**todd.saladin@kctcs.edu**](mailto:william.franklin@kctcs.edu) **Phone: 859-246-6772**

[**Program Website**](https://bluegrass.kctcs.edu/education-training/program-finder/civil-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** |
| CAD 100 Introduction to Computer Aided Design | 3 |  |  |  | Satisfies Digital Literacy requirement |
| 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** |  |  |  | |

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| **Second Semester** | **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 on back. |
| Technical Elective | 4 |  |  |  | See list on back. |
| **Total Semester Credit Hours** | **17** |  |  |  | |

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| **Third Semester** | **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 on back. |
| Technical Elective | 4 |  |  |  | See list on back. |
| Technical Elective | 4 |  |  |  | See list on back. |
| **Total Semester Credit Hours** | **15 – 17** |  |  |  | |
| **Total Diploma Credit Hours** | **48 – 50** |  |  |  | |

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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** |
| 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 in order to progress in the CET program. |

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| **Technical Electives** | | |
| **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 |  |  |

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| **Embedded Credentials** | | | |
| Credential | Title | Requirements | Total Credit 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 |

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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:**