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**Computer Aided Drafting and Design – Computer Assisted Drafter**

**Certificate**

**Program Coordinator: William M. (Mike) Franklin E-mail:** **william.franklin@kctcs.edu** **Phone: 859-246-6771**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/computer-aided-drafting-design.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/computer-aided-drafting-design.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 100Introduction to Computer Aided Design | 3 |  |  |  |  |
| CAD 102 Drafting Fundamentals | 4 |  |  |  |  |
| Quantitative Reasoning course, MAT 110 or higher | 3 |  |  |  | MAT 116 recommended |
| Written Communication, Oral Communications, or Humanities/Heritage | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CAD 112 Engineering Graphics | 4 |  |  | CAD 102 | See note below. |
| CAD 200 Intermediate Computer Aided Design | 4 |  |  | CAD 100 |  |
| CAD 201 Parametric Modeling | 4 |  |  |  |  |
| Technical Elective | 3 – 4  |  |  |  | See list on back. |
| **Total Semester Credit Hours** | **15 – 16**  |  |  |  |
| **Total Certificate Credit Hours** | **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 the certificate**
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**Graduation Requirements:**

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

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| **Additional Information** |
| \*If CAD 112 Engineering Graphics is not offered by BCTC, CET 150 Civil Engineering Graphics may be substituted with the approval of the Computer Aided Drafting and Design Program Coordinator.  |

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| **Technical Electives** |
| **Course** | **Cr. Hrs.** | **Prerequisites** |
| CAD 108 Introduction to Surveying | 3 |  |
| CAD 120 Introduction to Architecture | 4 | CAD 100 |
| CAD 150 Programming in CAD | 4 | CAD 100 |
| CAD 212 Industrial Drafting Processes | 4 | CAD 100 |
| CAD 216 Building Information Modeling | 4 |  |
| CAD 222 Mechanical Design | 4 | CAD 100 |
| CAD 240 Advanced Dimensioning and Measurement | 4 | CAD 100 |
| CAD 292 Industrial Applications | 4 | Approval of Instructor |
| CAD 293 Special Problems | 1 – 4  | Approval of Program Coordinator |
| DPT 100 Introduction to 3D Printing Technology | 3 |  |
| DPT 102 3D Printing Technology Fundamentals | 3 | Demonstration of Digital Literacy |
| ACH 110 Survey of the Architectural Profession | 1 |  |
| ACH 160 Building Materials and Construction I | 3 |  |
| BRX 120 Basic Blueprint Reading | 3 |  |
| BRX 220 Blueprint Reading for Construction | 3 |  |
| Other courses (such as courses with prefixes ACH, BRX, CAR, SMT, and PLW) approved by the Computer Aided Drafting and Design Coordinator  | 1 – 7  |  |