[Computer Aided Drafting and Design - Computer Assisted Drafter](https://bluegrass.kctcs.edu/education-training/program-finder/computer-aided-drafting-design.aspx)

Certificate

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 |  |  |  |  |
| 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 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CAD 112 Engineering Graphics | 4 |  |  | CAD 102 | \*See note below. |
| CAD 200 Intermediate Comp. Aided Design | 4 |  |  | CAD 100 |  |
| CAD 201 Parametric Modeling | 4 |  |  |  |  |
| Technical Elective | 3 – 4 |  |  |  | See list |
| Total Semester Credit Hours | 15 – 16 |  |  |  |  |
| Total Certificate Credit Hours | 28 – 29 |  |  |  |  |

**Graduation Requirements:**

* 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.

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

**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.

**Computer Aided Drafting and Design Elective Courses**

|  |  |  |
| --- | --- | --- |
| 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 |  |

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

*Review Date: 02-04-2021*