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**Computer Aided Drafting and Design (1513017029)**

**Associate in Applied Science (AAS)**

**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 need to be at KCTCS placement levels for some courses, please verify with coordinator***

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| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CAD 102- Drafting Fundamentals | 4 |  |  | **OR** ACH 100 or BRX 120 |
| CAD 103 - CAD Fundamentals **OR** | 4 |  |  |  |
| CAD 100- Introduction to CAD **AND** | (3) |  |  | **OR** ACH 195 |
|  Digital Literacy | (0-3) |  |  |  |
| SMT 110- Principles of Surveying  | 3 |  |  | **OR** CAD 108 (Recommended Elective) |
| MAT 116 - Technical Mathematics\*  | 3 |  |  | Quantitative Reasoning |
| **Total Semester Credit Hours** | **14-16** |  |  |  |

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| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CAD 120 - Introduction to Architecture | 4 |  |  | (Recommended Elective) |
| CET 150 - Civil Engineering Graphics | 3 |  |  | Substitute for CAD 112 |
| CAD 201 - Parametric Modeling | 4 |  |  |  |
| CAD 293 - Special Problems | 1-4 |  |  | (Recommended Elective) |
| ENG 101 - Writing I | 3 |  |  | Written Communication |
| **Total Semester Credit Hours** | **15-18** |  |  |  |

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| **Third Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CAD 200 - Intermediate CAD | 4 |  |  |  |
| CET 295 - Independent Problems | 1-4 |  |  | (Recommended Elective) |
| Technical Elective1 | 1-4 |  |  | (Recommended Elective) |
| Social / Behavior Sciences | 3 |  |  |  |
| Natural Sciences | 3 |  |  |  |
| **Total Semester Credit Hours** | **12-18** |  |  |  |

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| **Fourth Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CAD 298 - Practicum | 1-3 |  |  | **OR** CAD 299 Cooperative Education |
| Technical Elective1 | 4-13 |  |  | Technical Electives MUST total 22 hours |
| Heritage / Humanities | 3 |  |  |  |
| Oral Communications | 3 |  |  |  |
| **Total Semester Credit Hours** | **10-21** |  |  |  |

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| **Total Credential Hours** | **60-65** |  |  |  |

***Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College.***

**Advisor Name: Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Name: Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Special Instructions:** |
| \*Math requirements can be satisfied by one of the following courses: MAT 116, MAT 126, MAT 150 or higher level math course per coordinator approval.1. Technical Electives MUST total 22 hours.
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| **Approved Electives** |
| CAD 100 - Introduction to CAD | 3 | or ACH 195 |
| CAD 120 - Introduction to Architecture | 4 |  |
| CAD 108 - Introduction to Surveying | 3 |  |
| CAD 108 - Introduction to Surveying | 3 |  |
| CAD 120 - Introduction to Architecture | 4 |  |
| CAD 130 - Descriptive Geometry | 4 |  |
| CAD 150 - Programming in CAD | 4 |  |
| CAD 212 - Industrial Drafting Processes | 4 |  |
| CAD 216 - Building Information Modeling | 4 |  |
| CAD 222 - Mechanical Design | 4 |  |
| CAD 220 - Architectural Design | 4 |  |
| CAD 230 - Construction Techniques | 4 |  |
| CAD 240 - Advanced Dimensioning and Measurement | 4 |  |
| CAD 252 - Commercial Detailing | 4 |  |
| CAD 262 - Working Drawings | 4 |  |
| CAD 292 - Industrial Applications | 4 |  |
| DPT 100 - Introduction to 3D Printing Technology | 3 |  |
| SMT 110 - Principles of Surveying  | 3 | or CAD 108 |