

Drafting (Computer Aided Design)

Associate of Applied Science

Program/CIP Code: DRFT.CAD.AAS/15.1302

Credits Required: 63

Division: TEC

Contact: MSBT@kckcc.edu

MISSION:

The Drafting Program is committed to meeting the needs of the students enrolled in our courses. We are also committed to excellence in teaching.

The Department offers courses in the disciplines of GIS and CAD Drafting. We provide quality transfer courses, general education courses, prerequisites within vocational programs, and vocational courses.

All courses within the Drafting Program are designed to meet the needs of the students who take them and provide them with the knowledge, ability, skills, and the critical thinking (deductive reasoning) they will need to enter the modern marketplace.

Designed to prepare students for a variety of drafting and design positions in business, industry, and government, this program provides instruction in drafting techniques, procedures, processes, standards, and the care and use of tools and special instruments of the trade. CAD techniques utilizing Windows are emphasized in each course.

Requirements for admission to the program:

- No requirements for admission to the program.
- Contact program for program-specific advising.

College Requirement

| Course | | Credit Hours |
|-----------|------------------|--------------|
| BLUE 0101 | Freshman Seminar | 1 |

General Education Requirements

| Course | | Credit Hours |
|---|--|--------------|
| ENGL 0101 | Composition I* | 3 |
| ENGL 0102 OR ENGL 0206 | Composition II* OR Technical Writing | 3 |
| SPCH 0151 OR SPCH 0201 | Public Speaking OR Interpersonal Communication | 3 |
| MATH 0104 | Intermediate Algebra** or higher | 3-5 |
| | Humanities Elective | 3 |
| | Social Science Elective | 3 |
| | Natural & Physical Science Elective | 3-5 |
| Total Hours for General Education Requirements | | 21-25 |

*See course description for prerequisite.

**Math sequence is contingent upon previous high school mathematics background and transfer institution. Students should confer with an advisor to determine correct placement.

Drafting (CAD) Requirements*

| Course | | Credit Hours |
|--|---|---------------------|
| ENGR 0103 | Descriptive Geometry | 3 |
| ENGR 0105 | Print Reading | 3 |
| ENGR 0106 | Computer Aided Drafting | 3 |
| ENGR 0151 | Drafting Technology | 3 |
| ENGR 0152 | Fundamentals of Parametric Modeling | 4 |
| ENGR 0154 | Pictorial Drawing | 2 |
| ENGR 0195 | Fundamentals of Arcview GIS | 4 |
| ENGR 0206 | Advanced Computer Aided Drafting | 3 |
| ENGR 0216 | Fundamentals of MicroStation | 3 |
| ENGR 0251 OR ENGR 0253 | Fundamentals of Building Planning OR Fundamentals of Structural Steel Drawing | 3 |
| ENGR 0257 | Fundamentals of CAD Technologies | 3 |
| ENGR 0260 OR ENGR 0262 OR ENGR 0264 OR ENGR 0266 | Advanced Drafting OR Commercial Building Planning OR Industrial Illustration OR Structural Steel Drafting | 4 |
| ENGR 0281 | Drafting Field Project I | 3 |
| Total Hours for Drafting (CAD) Requirements | | 41 |
| *See course syllabi for Drafting (CAD) course prerequisites. | | |

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| Total Hours for an Associate in Applied Science in Drafting (CAD) Degree | 63-67 |
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| Electives: Students can substitute the following drafting courses for ones listed in the "Drafting Requirements" with the approval of the Coordinator. | | |
| ENGR 0107 | Construction Management | 3 |
| ENGR 0196 | CIS for Homeland Security | 3 |
| ENGR 0268 | Civil Drafting Technology | 4 |