



### PATHWAY: Computer-Aided Design (CAD) Technology

Visit your College Advisor, [ccc.edu](http://ccc.edu), or your college's Transfer Center for more information.

This is an **example course sequence** for students interested in earning a degree in Computer-Aided Design (CAD) Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science degree (AAS) in CAD Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below. The AAS degree program in Computer-Aided Design (CAD) Technology provides the technical instruction and skill development for the graduate to become successfully employed in the drafting fields of the mechanical, architectural, and construction industry. Instruction is directed toward theoretical and technical skills in the use of modern drafting tools and equipment with emphasis placed on the training of CAD techniques.

#### DEGREE CODES:

- AAS 0144
- AC 0138
- BC 0139

Choose your courses with your College Advisor.

Communications and mathematics pre-credit requirements. Placements based on current placement instrument, ACT or department chair recommendation.			College-level courses that can be taken while in pre-credit courses.
ENGLISH PLACEMENT	READING PLACEMENT	MATHEMATICS PLACEMENT	ELECTIVE COURSES
<input type="checkbox"/> ESL/FS Writing	<input type="checkbox"/> ESL/FS Reading	<input type="checkbox"/> FS Mathematics I	<input type="checkbox"/> College Success
<input type="checkbox"/> ESL/English 98	<input type="checkbox"/> ESL/Reading 99	<input type="checkbox"/> FS Mathematics II	<input type="checkbox"/> CAD Technology
<input type="checkbox"/> ESL 99	<input type="checkbox"/> ESL Reading 100	<input type="checkbox"/> Mathematics 98	<input type="checkbox"/> Computer Information Systems 120, 123
<input type="checkbox"/> ESL/English 100	<input type="checkbox"/> Reading 125	<input type="checkbox"/> Mathematics 99	<input type="checkbox"/> Engineering 100, 110, 111

### SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students by adding more semesters.

D	AC	BC	SEMESTER 1	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	English 101–Composition I (3)	Communications	
•	•	•	CAD Technology 130–CAD Technology I (3)	Required Program Core	<b>DO THIS</b> –Meet with advisor to discuss academic goals and plan coursework *Mathematics 140 is a Required Program Core for the AC and BC, but is a General Education requirement for the AAS
•	•	•	Mathematics 140–College Algebra (4)	Mathematics*	
•	•	•	Engineering 100–Elements of Engineering Drawing (3)	Required Program Core	
•	•	•	Engineering 110–Introductory Drafting (2)	Required Program Core	
<b>15 CREDIT HOURS</b>					
D	AC	BC	SEMESTER 2	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	Mathematics 141–Plane Trigonometry (3)	Required Program Core	<b>DO THIS</b> –Meet with advisor to discuss academic goals and plan coursework
•	•	•	Engineering 131–Engineering Graphics and Introduction to Design (3)	Required Program Core	
•	•	•	Engineering 111–Introduction to the Engineering Profession (2)	Required Program Core	
•	•	•	CAD Technology 170–CAD Technology II (3)	Required Program Core	
•	•	•	Computer Information Systems 103–Introduction to BASIC Language (3)	Required Program Core	
<b>14 CREDIT HOURS</b>					
D	AC	BC	SEMESTER 3	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	CAD Technology 171–CAD Technology III (3)	Required Program Core	<b>DO THIS</b> –Meet with advisor to confirm courses for completion of Associate of Applied Science degree.
•	•	•	Engineering 202–Advanced Drafting and Basic Machine Design (3)	Required Program Core	
•	•	•	Engineering 132–Descriptive Geometry (3)	Required Program Core	
•	•	•	Fine Arts & Humanities course (HD) (3)	Fine Arts & Humanities (HD)	
•	•	•	Computer Information Systems 120–Introduction to Microcomputers (3)	General Education	
<b>15 CREDIT HOURS</b>					
D	AC	BC	SEMESTER 4	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	CAD Technology 172–CAD Technology IV (3)	Required Program Core	<b>COMPLETION</b> of Basic Certificate in Computer-Aided Design (CAD) Technology <b>COMPLETION</b> of Advanced Certificate in Computer-Aided Design (CAD) Technology <b>COMPLETION</b> of Associate in Applied Science Degree in Computer-Aided Design (CAD) Technology
•	•	•	Engineering 190–Computer Application in Engineering (3)	Required Program Core	
•	•	•	Physics 231–General Physics I: Mechanics and Wave Motion (4)	Mathematics/Science	
•	•	•	Computer Information Systems 123–Introduction to Spreadsheets on Microcomputers (3)	Required Program Core	
•	•	•	Computer Information Systems 116–Introduction to Operating Systems (3)	Required Program Core	
<b>16 CREDIT HOURS</b>					
<b>DEGREE MINIMUM: 60 CREDIT HOURS // PATHWAY TOTAL: 60 CREDIT HOURS</b>					

D = DEGREE // AC = ADVANCED CERTIFICATE // BC = BASIC CERTIFICATE

Programs offered at: DA KK MX OH TR HW WR