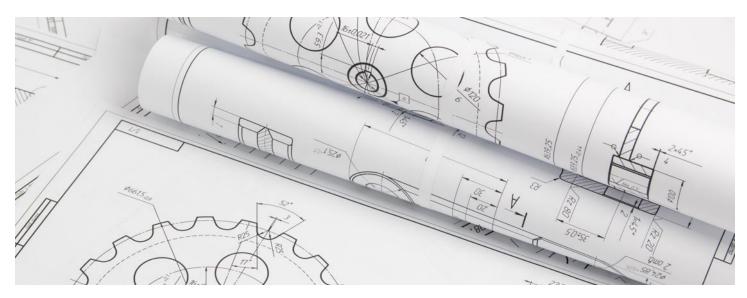
# COMPUTER-AIDED DRAFTING (CAD) TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE



College(s): TR

Program Code: 0144

The Associate in Applied Science 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.

### **Program Requirements**

Code	Title	Hours
General Education	on Coursework	
ENGLISH 101	Composition	3
MATH 140	College Algebra	4
PHYSICS 231	General Physics I: Mechanics & Wave Motion	4
Fine Arts & Hum	anities course	3
CIS 120	Introduction to Computer Applications	3
Required Progra	m Core	
CIS 103	Fundamentals of Programming	3
CIS 116	Operating System I	3
CIS 123	Microcomputer Spreadsheets	3
ENGR 100	Elements of Engineering Drawing	3
ENGR 110	Introductory Drafting	2
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 132	Descriptive Geometry	3
ENGR 190	Computer Programming for Engineers	3

Total Hours		61
CAD TEC 172	CAD Technology IV	3
CAD TEC 171	CAD Technology III	3
CAD TEC 170	CAD Technology II	3
CAD TEC 130	CAD Technology I	3
MATH 141	Plane Trigonometry	3
ENGR 202	Advanced Drafting & Basic Machine Design	3
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One course must fulfill the Human Diversity (HD) requirement.

### **Pathway**

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) (https://catalog.ccc.edu/hd/) requirement, and is labeled with an (HD) in the sequence below.

### 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.

Semester 1		Hours
ENGLISH 101	Composition <sup>1</sup>	3
CAD TEC 130	CAD Technology I	3
MATH 140	College Algebra <sup>1</sup>	4
ENGR 100	Elements of Engineering Drawing	3
ENGR 110	Introductory Drafting	2
	Hours	15
Semester 2		
MATH 141	Plane Trigonometry	3



	Total Hours	61
	Hours	16
CIS 116	Operating System I	3
CIS 123	Microcomputer Spreadsheets	3
PHYSICS 231	General Physics I: Mechanics & Wave Motion 1	4
ENGR 190	Computer Programming for Engineers	3
CAD TEC 172	CAD Technology IV	3
Semester 4		
-	Hours	15
CIS 120	Introduction to Computer Applications <sup>1</sup>	3
Fine Arts & Humar	nities course (HD) 1	3
ENGR 132	Descriptive Geometry	3
ENGR 202	Advanced Drafting & Basic Machine Design	3
CAD TEC 171	CAD Technology III	3
Semester 3		
	Hours	15
CIS 103	Fundamentals of Programming	3
CAD TEC 170	CAD Technology II	3
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3

<sup>&</sup>lt;sup>1</sup> General Education Requirement

Choose your courses with your College Advisor.

### **Careers**

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

## **Architectural and Civil Drafters Job Description**

Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.

### **Salary Based on Experience Level**

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

### **Annual Wages**

Entry-Level 10 <sup>th</sup> Percentile	\$46,257
Median 50 <sup>th</sup> Percentile	\$63,789
Senior-Level 90 <sup>th</sup> Percentile	\$101,186

Hourly wages	
Entry-Level 10 <sup>th</sup> Percentile	

Median 50<sup>th</sup> Percentile \$31 Senior-Level 90<sup>th</sup> Percentile \$49

### **Annual Job Openings**

123 annual openings in Cook County

### **National Education Attainment**

Here, you can see the level of education that people in this career complete.

\$22

Degree Program	% of Jobs
A high school diploma or less	0.41%
A certificate	0.91%
Some college	0.41%
An Associate degree	17.85%
A Bachelor's degree	54.59%
A Master's or Professional degree	25.84%
A Doctoral degree or more	0.00%

80.43% continue their education beyond an associate degree