

COMPUTER AIDED DESIGN (CAD): CS

Certificate of Specialization | 16 credit hours minimum

Area of Interest: Advanced Manufacturing, Industrial Occupations, and Transportation

Program Website (<https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/computer-aided-design/>)

Academic Advising (<https://stlcc.edu/admissions/advising/>)

Program Description:

The Computer Aided Design (CAD) Certificate of Specialization prepares a CAD operator to interpret data from multiple sources, apply traditional drafting skills, utilize operating system software, and follow industrial practices and company procedures related to CAD work. Graduates will be able to efficiently perform all tasks related to producing final drawings and CAD models.

Locations. This program is offered in its entirety at Florissant Valley.

Related Programs. The Engineering Department offers an associate in the following area:

Engineering Technology, Associate in Applied Science
(<http://catalog.stlcc.edu/programs/engineering-technology-aas/>)

Cost of Attendance. For more information on cost of attendance visit MoSCORES (<https://scorecard.mo.gov/Search/>).

Program Career and Salary Information. Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: <https://scorecard.mo.gov/scorecard/> (https://www.google.com/url?q=https://scorecard.mo.gov/scorecard/&sa=D&ust=1555536894857000&usg=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJCQ). Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Interested in this program? Start the enrollment process by visiting the Apply to STLCC (<https://www.stlcc.edu/admissions/apply-to-stlcc/>) page.

At the completion of the program, students are expected to:

1. create two-dimensional (2D) CAD drawings.
2. create three-dimensional (3D) CAD models.
3. produce drawings that comply with industry standards.
4. incorporate and extract design properties in CAD files.
5. manage CAD files.
6. interpret mechanical and electrical drawings.

Code	Title	Credit Hours
Program Requirements		
GE 101	Technical Computer Applications	3
EGR 100	Engineering Drawing	3
EGR 133	Introduction to AutoCAD I	2
GE 135	Blueprint Reading for Engineering Technicians	2
EGR 141	Introduction to AutoCAD II	2
Select one course:		
ME 230 or EGR 230	Introduction to 3-D Solid Modeling for Design Introduction to Revit	4
Total Credit Hours		16

Part-Time Academic Plan

PLEASE NOTE: If you originally enrolled at STLCC prior to Spring 2024, you may need to view an archived catalog (<https://www.stlcc.edu/programs-academics/course-catalog/>) for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
EGR 100	Engineering Drawing	3	Reading Proficiency	
EGR 133	Introduction to AutoCAD I	2	Reading Proficiency	
GE 135	Blueprint Reading for Engineering Technicians	2	Reading Proficiency	
GE 101	Technical Computer Applications	3	Reading Proficiency	
	Credit Hours	10		
Spring				
ME 230 or EGR 230	Introduction to 3-D Solid Modeling for Design or Introduction to Revit	4	EGR 100 with a minimum grade of "C" or Department approval and Reading Proficiency	

EGR 141	Introduction to AutoCAD II	2	EGR 133 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	6		
	Total Credit Hours	16		

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.