

# Recommended Academic Plan for Computer Aided Design (CAD)

Certificate of  
Specialization



This two semester plan is a suggested semester-by-semester course schedule. It is designed to keep you on track for a timely graduation. This plan is not a substitute for academic advising. Contact an advisor for further information regarding placement based on ACT/SAT or COMPASS exam scores, scheduling, degree requirements, and graduation requirements.

Semester 1				
Course	Credits	Prerequisite	Milestone/Notes	Completed
EGR:100 Engineering Drawing	3	EGR:050 or High School Level Drafting		
GE:101 Technical Computer Applications OR GE:121 Principles of Engineering ESC:100 Engineering Computer Applications and Design	3			
*Technical elective from Engineering and Technology Department	3		Choose from prefixes BE, CE, EE, EGR, ESC, GE, ME, QC	
<b>Subtotal</b>	<b>9</b>			

Semester 2 *CAD Sequence – Choose at least one in each area for a total of 9 or more credit hours				
Course	Credits	Prerequisite	Milestone/Notes	Completed
EGR:133 Intro to AutoCAD I OR EGR:104 Electronic Drafting OR EGR:141 Introduction to AutoCAD II	2-4	EGR:050  EGR:133	*Select one or more 2-D CAD course to meet required credit hours for the program	
EGR:147 Introduction to Engineering Design OR EGR:145 Computer Solids Modeling OR EGR:139 3-D AutoCAD with Autoshade OR ME:230 Introduction to 3-D Solid Modeling for Design OR EGR:148 Solid Modeling with Unigraphics OR EGR:256 Solid Modeling with CATIA	2-4	EGR:133	*Select one or more 3-D CAD course to meet required credit hours for the program	
ME:230 Introduction to 3-D Solid Modeling for Design OR EGR:255 Advanced Computer Aided Drafting OR GE:122 Engineering Design and Development	3-4	EGR:141 or 144 See catalog	*Select one CAD application *Check catalog for updates on prerequisites	
			Apply for graduation	
<b>Subtotal</b>	<b>9-10</b>			

## Total Hours in the Program: 18

\*See Catalog for classes that will fulfill the elective requirements [stlcc.edu/Programs/General\\_Education](http://stlcc.edu/Programs/General_Education) or [cte.stlcc.edu/computer-aided-design-cad/](http://cte.stlcc.edu/computer-aided-design-cad/)

**Maximize your transfer credits/classes by meeting with an academic advisor.**

## Computer Aided Design (CAD) CS Quick Checklist –

Courses	Credits	Notes
<b>REQUIRED COURSES</b>		
EGR:100 Engineering Drawing		
GE:101 Technical Computer Applications OR GE:121 Principles of Engineering OR ESC:100 Engineering Computer Applications and Design		
<b>CAD Sequence - Choose at least one in each area for a total of at least 9 credit hours</b>		
<b>2-D CAD:</b> EGR:133 Intro to AutoCAD I OR EGR:104 Electronic Drafting OR EGR:141 Introduction to AutoCAD II		
<b>3-D CAD:</b> EGR:147 Introduction to Engineering Design OR EGR:145 Computer Solids Modeling OR EGR:139 3-D AutoCAD with Autoshade OR ME:230 Introduction to 3-D Solid Modeling for Design OR EGR:148 Solid Modeling with Unigraphics OR EGR:256 Solid Modeling with CATIA		
<b>CAD Applications:</b> ME:230 Introduction to 3-D Solid Modeling for Design OR EGR:255 Advanced Computer Aided Drafting OR GE:122 Engineering Design and Development		
<b>TECHNICAL ELECTIVES</b>		
Select course(s) from prefixes: BE, CE, EE, EGR, ESC, GE, ME, QC		
Additional coursework to meet program credit hour requirements		

For more information, please see [stlcc.edu/CAD](http://stlcc.edu/CAD) or consult the College Catalog at [stlcc.edu/Admissions\\_and\\_Registration/Course\\_Catalog.html](http://stlcc.edu/Admissions_and_Registration/Course_Catalog.html)

### Advisor Contact Information

Name  
Phone  
Email