

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 Placement exam scores, scheduling, degree requirements, and graduation requirements.

Semester 1				
Course	Credits	Prerequisite	Milestone/Notes	Completed
EGR:100 Engineering Drawing	3	EGR:050 or previous drafting work or department approval		
Select One: GE:101 Technical Computer Applications OR GE:121 Principles of Engineering OR ESC:100 Engineering Computer Applications and Design	3	MTH 140		
*Technical elective from Engineering and Technology Department	3		Choose from prefixes BE, CE, EE, EGR, ESC, GE, ME, QC	
Subtotal	9			

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
Select One or more: EGR:133 Intro to AutoCAD I OR EGR:104 Electronic Drafting OR EGR:141 Introduction to AutoCAD II OR EGR:258 CAD Portfolio Preparation & Review	1-4	EGR:050 EGR:133	*Select one or more 2-D CAD courses to meet required credit hours for the program	
Select One or more: EGR:147 Introduction to Engineering Design OR EGR:145 Computer Solids Modeling 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	Department approval	*Select one or more 3-D CAD courses to meet required credit hours for the program	
Select One: ME:230 Introduction to 3-D Solid Modeling for Design OR GE:122 Engineering Design and Development	3-4	Department approval GE121 & EGR147 or ME121 or ME151 & EGR100	*Select one CAD application *Check catalog for updates on prerequisites	
			Apply for graduation & Submit Portfolio	
Subtotal	9-10			

Total Hours in the Program: 18

*See Catalog for classes that will fulfill the elective requirements catalog.stlcc.edu or the program web page 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
REQUIRED COURSES		
EGR:100 Engineering Drawing		
GE:101 Technical Computer Applications OR GE:121 Principles of Engineering OR ESC:100 Engineering Computer Applications and Design		
CAD Sequence - Choose at least one in each area for a total of at least 9 credit hours		
2-D CAD: EGR:133 Intro to AutoCAD I OR EGR:104 Electronic Drafting OR EGR:141 Introduction to AutoCAD II EGR:258 CAD Portfolio Preparation & Review		
3-D CAD: EGR:147 Introduction to Engineering Design OR EGR:145 Computer Solids Modeling 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		
CAD Applications: ME:230 Introduction to 3-D Solid Modeling for Design OR GE:122 Engineering Design and Development		
TECHNICAL ELECTIVES		
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 or consult the College Catalog at catalog.stlcc.edu/

Advisor Contact Information

Name
Phone
Email