

PROGRAM CURRICULUM



Engineering Design

Associate in Science

DIVISION OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Designers translate the ideas, sketches, and specifications of engineers into workable plans and models. Students develop skills and techniques by using the most modern equipment and software, such as AutoCAD®, Pro/ENGINEER®, SolidWorks® and MS Project®. Instruction is given in mechanical, electrical, electro-mechanical, architectural, and multimedia design. Students will use the acquired computer and manual drafting skills from various courses to complete projects in the areas of their interest. Graduates may seek positions as detailers/designers/schedulers.

Upon successful completion, the Associate in Science Degree in Engineering Design is awarded.

PROGRAM FOOTNOTES

Humanities Electives: Art, Communications, Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

Social Science Electives: Anthropology, Economics, Geography, Government, History, Law & Society, (LA 230), Psychology, Sociology

Program Electives: IN 102 Architectural Drawing for Interior Design, MN 241 Architectural Design, MN 251 Electro-Mechanical Design, MN 271 Project Design, MN 272 Designing Plastic Parts, SB 101 Intro to Mass Building Codes, and/or courses in Biology, Computer Science, (except CS 100), Chemistry, Electronics, Engineering, Environmental Science, Mathematics, Physics



COURSE	COURSE TITLE	CREDITS
<i>First Year Semester 1</i>		
EN 101	Freshman English I	3
MN 101	Introduction to Computer Aided Design and Drafting	4
MN 130	Engineering Design with CAD I	4
MA 104	Pre-Calculus	4
		credits:
		15
<i>First Year Semester 2</i>		
CS 110	Intro to Computer Science	4
CT 100	Critical Thinking	3
EN 102	Freshman English II	3
MN 135	Engineering Design with CAD II	4
MN 141	Architecture & Civil CAD Applications	4
		credits:
		18
<i>Second Year Semester 1</i>		
MN 121	Mechanical Detailing	4
	Humanities Elective	3
	Program Elective	4
	Social Science Elective	3
		credits:
		14
<i>Second Year Semester 2</i>		
MN 261	Animation Materials 3D Molding	4
MN 140	Project Management	4
	Program Elective	3/4
	Humanities Elective	3
		or
	Social Science Elective	3
		credits:
		14/15
		Total Credits:
		61/62