

DRAFTING
MECHANICAL DRAFTING AND DESIGN
Associate of Applied Science Degree
Catalog 2009-2010

The Mechanical Drafting and Design degree program is intended to provide the students with a firm mathematical and scientific foundation on which to build a high degree of technological expertise in manufacturing and engineering technology. These are skills associated with mechanical related positions in industry, engineering technology, and with the government. Further, a strong background in general education courses is provided to enhance the student's understanding of society and to make progress in his/her field of choice more accessible.

Note: A student must earn a grade of a "C" or higher in all "DRFT" courses for the course to count toward a degree.

				Credit	
				Hours	Grade
1st Semester					
_____	COSC	118	Computer Programming Fundamentals with C++	3	_____
_____	DRFT	110*	Technical Drafting I	3	_____
_____	DRFT	150*	Computer-Aided Drafting (CAD)	4	_____
_____	ENGL	111	Freshman Composition OR		
_____	ENGL	118	Technical Composition	3	_____
_____	_____	_____	Lab Science Elective***	<u>4</u>	_____
				Total 17	
2nd Semester					
_____	DRFT	112	Materials and Processes	3	_____
_____	DRFT	113	Materials and Processes Lab	2	_____
_____	DRFT	115	Technical Drafting II	4	_____
_____	DRFT	120	Descriptive Geometry	3	_____
_____	MATH	180	Trigonometry	3	_____
_____	MATH	185	College Algebra	<u>3</u>	_____
				Total 18	
3rd Semester					
_____	DRFT	210	Technical Drafting III	4	_____
_____	MATH	188	Calculus I	4	_____
_____	PHYS	211	General Physics I	3	_____
_____	PHYS	211L	General Physics I Lab	1	_____
_____	_____	_____	Humanities/Social Science Elective****	3	_____
_____	_____	_____	Approved Drafting Elective **	<u>3-4</u>	_____
				Total 18-19	
4th Semester					
_____	DRFT	255	Statics and Strength of Materials	4	_____
_____	DRFT	260	Advanced AutoCAD	4	_____
_____	ENGL	218	Advanced Technical Composition	3	_____
_____	SPCH	110	Public Speaking OR		
_____	SPCH	111	Interpersonal Communication	3	_____
_____	_____	_____	Approved Drafting Elective**	<u>3-4</u>	_____
				Total 17-18	

Total credit hours required for this degree is 70-72

* DRFT 110 and DRFT 150 should be taken in the same semester.

** Approved electives are: COGR 295, DMAD 170, DMAD 172, DMAD 240, DRFT 195, DRFT 225, DRFT 248, DRFT 295, GEOG 120 **OR** GEOG 151.

*** See page 132, Area III for options, 2009-2010 San Juan College catalog.

**** See page 45, Humanities and Social Science Electives, 2009-2010 San Juan College catalog.

DRAFTING
 COMPUTER-ASSISTED DRAFTING (CAD)
 APPROVED ELECTIVES
 Catalog 2009-2010

Two degree options and one certificate option are available for students interested in pursuing a career in drafting: students can obtain a one-year certificate in drafting and/or two year AAS degrees in Civil Drafting and Design and Mechanical Drafting and Design. Civil Drafting and Design Technology provides students with a firm technical foundation in civil drafting, while the Mechanical Drafting and Design program provides a mathematical and scientific foundation for entry-level positions in engineering technology.

Approved Electives**

The following electives will be applicable to either of the programs, unless a selected course is a program requirement.

			Credits
_____	COGR 295	Special Topics	1-4
_____	DMAD 170	Intro to Digital Editing	2
_____	DMAD 172	Digital Editing II	2
_____	DMAD 240	3D Design/Animation	4
_____	DRFT 195	Special Topics	1-4
_____	DRFT 225	Piping Design and Drafting	4
_____	DRFT 248	Civil Drafting I	4
_____	DRFT 260	Advanced AutoCAD	4
_____	DRFT 295	Special Topics	1-4
_____	GEOG 120	GPS and Surveying Methods	4
_____	GEOG 151	Geographic Information System I	4

Option: DRFT 280: Cooperative Education, 1-12 credits may be substituted for course work during the third and fourth semesters with the approval of the dean.