

DRAFTING
MECHANICAL DRAFTING AND DESIGN ENGINEERING TECHNOLOGY
COMPUTER-ASSISTED DRAFTING (CAD)
ASSOCIATE OF APPLIED SCIENCE
Catalog 2005-2007

The Mechanical Drafting and Design Engineering Technology, Computer-Assisted Drafting 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. This degree program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET). **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 Hour	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	4	_____
				Total 17 credits	
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	3	_____
				Total 18 credits	
3rd Semester					
___	DRFT	210	Technical Drafting III	4	_____
___	MATH	188	Calculus I	4	_____
___	PHYS	211	General Physics I	4	_____
___	_____	___	Humanities/Social Science Elective	3	_____
___	_____	___	Approved Drafting Elective **	3-4	_____
				Total 18-19 credits	
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**	3-4	_____
				Total 17-18 credits	

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 160, COGR 165, DRFT 195, DRFT 225, DRFT 248, DRFT 295 GIST 120, or GIST 150

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Two options are available for students interested in pursuing a career in computer-assisted drafting: Civil Drafting and Design Technology, and Mechanical Drafting and Design Engineering Technology (TAC/ABET). Civil Drafting and Design Technology provides students with a firm technical foundation in civil drafting, while the Mechanical Drafting and Design Engineering Technology 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.

___	COGR	160	Computer Graphics I	4 credits
___	COGR	165	Computer Graphics II	4 credits
___	DRFT	195	Special Topics	1-4 credits
___	DRFT	220	Electronics Drafting	(3+2P) 4 credits
___	DRFT	225	Piping Design and Drafting	(3+2P) 4 credits
___	DRFT	248	Civil Drafting I	(3+2P) 4 credits
___	DRFT	260	Advanced AutoCAD	(3+2P) 4 credits
___	DRFT	295	Special Topics	1-4 credits

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.