

COMPUTER-AIDED DRAFTING TECHNOLOGY



PURPOSE OF PROGRAM

The computer-aided drafting technology program is a great start for those interested in a career in design, engineering, architecture, construction, or the related industries. The two-year program provides a substantial amount of hands-on practical experience in the computer lab.

Students receive training and best practices regarding engineering, architectural and mechanical design through advanced computer-aided drafting skills using architectural, civil, mechanical and 3D modeling software. Residential and commercial design, building science, surveying and construction management are important course requirements. Sustainable building design and construction products are integral to all core classes. Second year students may work on designing live projects for non-profit organizations in the community.

CAREER OPPORTUNITIES

Graduates of the computer-aided drafting technology program will be qualified for entry level drafting and related positions within architectural and civil design firms, as well as manufacturing, fabrication, building supply and construction businesses. Some graduates continue their education in engineering, architecture or construction management programs. Others enter related programs in construction and machining technology at the college.

NMCC is an equal opportunity/affirmative action institution and employer. For more information, please call 768-2791.

ADMISSIONS POLICY

Completion of a four-year high school program or a state high school equivalency certificate is required for admission into NMCC's computer-aided drafting technology program. Associate degree applicants are required to have high school algebra I & II and geometry, with physics desired. Certificate applicants must have two years of math, with Algebra I & II, geometry and physics all desired. A rolling admissions policy affords candidates the opportunity to apply and be accepted throughout the year, but early application (9-10 months prior to the school year) is recommended because of competition and strict enrollment capacities established for each program.

APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. An application form must be submitted accompanied by a nonrefundable \$20 application fee.
2. An official high school transcript must also be submitted (current seniors' transcripts should include completed ranking periods).
3. GED test scores must be submitted by applicants who are not high school graduates.
4. Official college transcripts must be submitted by applicants who have attended other colleges or post-secondary schools.
5. Placement testing or appropriate SAT scores, individual interviews and campus tours are required, in most cases, prior to being admitted.
6. Admissions decisions are made as quickly as possible once a candidate's file is complete.
7. Accepted applicants are required to make a deposit within thirty days of acceptance. Students requesting on campus housing are required to submit an additional deposit to reserve space in the residential complex.

COMPUTER-AIDED DRAFTING TECHNOLOGY

2014-2015 Curriculum

Associate in Applied Science Degree Program

<u>First Semester</u>	<u>C</u>	<u>L</u>	<u>CR</u>
◆ DRT 109 Mechanical Drafting & Design	1.5	4.5	3
◆ DRT 117 Basic CAD	1.5	4.5	3
ENG 111 English Composition	3	0	3
MAT 119 Applied Mathematics	4	0	4
TEC 112 Building Science I	1.5	3	3
	11.5	12	16
<u>Second Semester</u>			
◆ DRT 125 Residential Design	1.5	4.5	3
◆ DRT 218 Advanced CAD	1.5	4.5	3
MAT 151 College Algebra and Trig	3	0	3
TEC 123 Building Science II	1.5	3	3
Social Science Elective	3	0	3
	10.5	12	15
<u>Third Semester</u>			
◆ DRT 216 Commercial Design I	3	9	6
◆ DRT 219 Structural Design	2	2	3
PHY 150 Physics	3	2	4
SUR 213 Construction Surveying	2	2	3
	10	15	16
<u>Fourth Semester</u>			
COM 221 Technical Communications	3	0	3
◆ DRT 226 Commercial Design II	3	9	6
PHY 215 Statics/Strength of Materials	3	0	3
TEC 221 Construction Management	3	0	3
Humanities Elective	3	0	3
	15	9	18
TOTAL REQUIRED			65

Certificate Program

<u>First Semester</u>	<u>C</u>	<u>L</u>	<u>CR</u>
◆ DRT 109 Mechanical Drafting & Design	1.5	4.5	3
◆ DRT 117 Basic CAD	1.5	4.5	3
ENG 111 English Composition	3	0	3
MAT 119 Applied Mathematics	4	0	4
TEC 112 Building Science I	1.5	3	3
	11.5	12	16
<u>Second Semester</u>			
◆ DRT 125 Residential Design	1.5	4.5	3
◆ DRT 218 Advanced CAD	1.5	4.5	3
MAT 151 College Algebra and Trig	3	0	3
TEC 123 Building Science II	1.5	3	3
Elective	3	0	3
	10.5	12	15
TOTAL REQUIRED			31

◆ Major courses; a minimum grade of "C" or 2.0 required.