

Division of Advanced Technologies

2425 Hwy. 75 • P.O. Box 246 Blountville, Tennessee 37617-0246 800.836.7822 (Admissions and Records) Fax 423.323.0215 www.NortheastState.edu 2014-2015

Computer-Aided Drafting

An Academic Certificate Program

PROGRAM DESCRIPTION

The Computer-Aided Drafting academic certificate prepares individuals for possible employment as a detail drafter or drafting design apprentice in the manufacturing or industrial environment, construction field assistant, production process apprentice, or an entry-level position in estimating and procurement.

PROGRAM ARTICULATION

All courses taken in the Computer-Aided Drafting certificate program will articulate into the Associate of Applied Science degree program in Industrial Technology - Concentration: Engineering Design Technology.

APPLICATION PROCEDURE

A student desiring to pursue a certificate in Computer-Aided Drafting must:

- 1. Submit the Northeast State Application for Admission with a \$10 application fee to the Office of Admissions and Records.
- 2. Indicate Computer-Aided Drafting as the desired major on the Northeast State application form.
- 3. See a faculty advisor from the Industrial Drafting Design program prior to registering for classes.

TYPICAL F	PROGRAM OF STUDY		
Course No.	Course Title	Credit	
<u>FALL</u>			
INTC 1030	Industrial Concepts	3	
ENGR 1110	Engineering Graphics	3	
MATH 1050	Trigonometric Applications	4	
SPCH 2300	Public Speaking	3	
<u>SPRING</u>			
Elective	General Elective	3	
DRAF 1210	Computer-Aided Drafting I	4	
DRAF 2510	Geometrical Dimensioning and Tolerancing	3	
INTC 1020	Safety in the Workplace	3	
Total Credit Hour	'S	26	
Students must complete all learning support deficiencies in English, math-			
ematics, and read	ding, or have appropriate entrance scores.		

TYPICAL JOB OPPORTUNITIES

Mechanical Drafter: Prepares detailed working diagrams of machinery and mechanical devices including dimensions, fastening methods, and other engineering information.

CAD Drafter: Develops architectural, structural, and mechanical drawings under supervision using CAD software.

FOR FURTHER INFORMATION CONTACT:

Michael McAninch

Associate Professor, Engineering Design Technology

Telephone: 423.354.2585

gmmcaninch@NortheastState.edu

or

Sam Rowell Dean, Advanced Technologies Telephone: 423.354.2582 ssrowell@NortheastState.edu

PROGRAM COMPETENCIES

The graduate is competent to:

- 1. Create new or edit existing CAD drawings and print/plot projects.
- 2. Work with 2D and 3D projects using skills to produce accurate drawings efficiently.
- 3. Work with multiple drafting disciplines if needed.
- 4. Apply critical thinking skills to assignments.
- 5. Demonstrate professional conduct as expected in the work environment.



2425 Hwy. 75 • P.O. Box 246 Blountville, Tennessee 37617-0246 800.836.7822 (Admissions and Records) Fax 423.323.0215 www.NortheastState.edu 2014-2015

Division of Academic Affairs

Approved Courses for General Education

Approved Courses	s for General Education		Approved Cou	rses for Ge
Communication			History	
ENGL 1010	Composition I	3	To fulfill History red	nuirement
ENGL 1020	Composition II	3	HIST 1210	World 1
To fulfill Oral Presentati	onal Communication Requirement		HIST 1220	World 1
SPCH 1010	Fundamentals of Speech Communication	3	HIST 2010	U.S. Hi
SPCH 2300	Public Speaking	3	HIST 2020	U.S. Hi
SPCH 2320	Argumentation and Debate	3	HIST 2030	Tenness
	0			
Humanities and/or Fine			Natural Science	
To fulfill Literature requ			To fulfill Natural Sc	1
ENGL 2030	Literary Heritage	3	ASTR 1010	Astrono
ENGL 2110	American Literature I	3	ASTR 1020	Astrono
ENGL 2120	American Literature II	3	BIOL 1010	Introdu
ENGL 2130	American Masterpieces	3	BIOL 1020	Introdu
ENGL 2180	Myth and Tradition	3	BIOL 1030	Concep
ENGL 2210	English Literature I	3	BIOL 1110	Genera
ENGL 2220	English Literature II	3	BIOL 1120	Genera
ENGL 2330	World Literature	3	BIOL 2010	Human
To fulfill Humanities/Fi	-		BIOL 2020	Human
ARTH 1030	Introduction to Art	3	CHEM 1030	Introdu
ARTH 2010	Survey of Art History I	3	CHEM 1110	Genera
ARTH 2020	Survey of Art History II	3	CHEM 1120	Genera
HUM 2010	Introduction to Humanities I	3	PHYS 1030	Introdu
HUM 2020	Introduction to Humanities II	3	PHYS 2010	Non-C
HUM 2340	Black Studies	3	PHYS 2020	Non-C
HUM 2350	Technology in Society	3	PHYS 2110	Calculu
MUS 1030	Music Appreciation	3	PHYS 2120	Calculu
PHIL 1030	Self and World	3	PSCI 1010	Physica
PHIL 2020	Values and Society	3		(Physic
PHIL 2210	Introduction to the Study of Religion	3	PSCI 1020	Physica
THEA 1030	Introduction to Theatre	3		(Earth/
THEA 2010	Theatre History I	3		
THEA 2020	Theatre History II	3	<u>Mathematics</u>	
			To fulfill Mathemat	ics requiremen
Behavioral and Social So			MATH 1010	Mather
To fulfill Behavioral and	Social Sciences requirement		MATH 1410	Founda
ECON 1050	Economics and Society	3		(Educat
ECON 2010	Macroeconomics	3	MATH 1530	Probabi
ECON 2020	Microeconomics	3		(Non-C
GEOG 1030	Cultural Geography	3	MATH 1630	Finite I
GEOG 2010	World Geography	3	MATH 1710	Pre-Cal
POLS 1030	American Government	3	MATH 1720	Pre-Cal
PSYC 1030	General Psychology	3	MATH 1830	Calculu
PSYC 2130	Life Span Psychology	3	MATH 1910	Calculu
SOCI 1010	Introduction to Sociology	3		
SOCI 1020	Social Problems	3	Note: Some majors	may require sp
SOCI 1030	Introduction to Anthropology	3	and advisors should	
SOCI 2010	Marriage and Family	3	course selections.	
SOCW 2010	Fitness, Wellness, and Society	3		
WMST 2010	Introduction to Women's Studies	3		

1 1	s for General Education Continued:	
History		
To fulfill History require		
HIST 1210	World History I	3
HIST 1220	World History II	3
HIST 2010	U.S. History I	3
HIST 2020	U.S. History II	3
HIST 2030	Tennessee History	3
Natural Science		
To fulfill Natural Science	e requirement	
ASTR 1010	Astronomy I	4
ASTR 1020	Astronomy II	4
BIOL 1010	Introduction to Biology I	4
BIOL 1020	Introduction to Biology II	4
BIOL 1030	Concepts in Biology	4
BIOL 1110	General Biology I (Majors)	4
BIOL 1120	General Biology II (Majors)	4
BIOL 2010	Human Anatomy and Physiology I	4
BIOL 2020	Human Anatomy and Physiology II	4
CHEM 1030	Introduction to Chemistry	4
CHEM 1110	General Chemistry I	4
CHEM 1120	General Chemistry II	4
PHYS 1030	Introduction to Physics	4
PHYS 2010	Non-Calculus Based Physics I	4
PHYS 2020	Non-Calculus Based Physics II	4
PHYS 2110	Calculus-Based Physics I	4
PHYS 2120	Calculus-Based Physics II	4
PSCI 1010	Physical Science I	
	(Physics and Chemistry)	4
PSCI 1020	Physical Science II	
	(Earth/Space Science)	4
AA d		
Mathematics		
To fulfill Mathematics ro MATH 1010	Mathematical Applications	3
MATH 1410	Foundations of Numerical Concepts	3
WIXI II 1410	(Education Majors Only)	3
MATH 1530	Probability and Statistics	3
WIATTT 1550	(Non-Calculus Based)	3
MATH 1630	Finite Mathematics	3
MATH 1710	Pre-Calculus I (Algebra)	3
MATH 1720	Pre-Calculus II	3
MATH 1830	Calculus for Business	3
MATH 1910	Calculus I	4
Note: Some majors mar	require specific general education courses. Stude	nte
	ult curriculum guides before making general educat	
course selections.	an carriedani guides betote maxing general educat	1011
course serections.		

ACADEMIC PLAN FOR CATALOG YEAR 2014-2015

TIMELINE FOR DEGREE COMPLETION

Semester:	Cr Hrs	Semester:	Cr Hrs	Semester:	Cr Hrs
Total Credit Hrs		Total Credit Hrs		Total Credit Hrs	
Semester:	Cr Hrs	Semester:	Cr Hrs	Semester:	Cr Hrs
Total Credit Hrs		Total Credit Hrs		Total Credit Hrs	
Semester:	Cr Hrs	Semester:	Cr Hrs	Semester:	Cr Hrs
Total Credit Hrs		Total Credit Hrs		Total Credit Hrs	

Student Signature	Date	
Academic Advisor Signature	Date	

Meeting Dates:	
	This academic plan is an unofficial document intended to be used for advising/course planning only. This

This academic plan is an unofficial document intended to be used for advising/course planning only. This document cannot be used to supersede or waive requirements listed in the Northeast State Community College Catalog.

Course availability is not guaranteed.



Northeast State Community College is part of the Tennessee Board of Regents (TBR) system, which consists of 46 institutions with a combined annual enrollment of over 200,000 students, making it among the nation's largest systems of public higher education. TBR's six state universities, 13 community colleges, and 27 colleges of applied technology offer classes in 90 of Tennessee's 95 counties.

Northeast State is an AA/EEO institution and does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. For questions regarding non-discrimination policies, please contact the Equity & Compliance Officer at complianceofficer@northeaststate.edu or 423.354.5255.

Northeast State is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award the associate degree. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Northeast State.