

Division of Health-Related Professions

2425 Hwy. 75 • P.O. Box 246 Blountville, Tennessee 37617-0246 800.836.7822 (Admissions and Records) Fax 423.323.0215 www.NortheastState.edu 2015-2016

Cardiovascular Technology Non-Invasive Option

An Associate of Applied Science Degree Program

PROGRAM DESCRIPTION

The Cardiovascular Technology program Non-Invasive Option provides the general education core, program specific courses, and the clinical practicum for a career as a Registered Cardiac Sonographer. The knowledge and skills acquired within the classroom and laboratory setting enhances the learning opportunities for the cardiovascular non-invasive student. Following the successful completion of the program, students are eligible to sit for the registry examination to become a Registered Cardiac Sonographer through Cardiovascular Credentialing International.

The Cardiovascular Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs and the Joint Review Committee on Education in Cardiovascular Technology.

> 1449 Hill Street Whitinsville, MA 01588-1032 Telephone: 978.456.5594.

APPLICATION PROCEDURE

A student desiring to pursue the Associate of Applied Science degree in Cardiovascular Technology Non-Invasive Option must:

- Submit the Northeast State Application for Admission to the Office of Admissions and Records.
- 2. Indicate Associate of Applied Science degree program in Cardiovascular Technology Non-Invasive Option as the desired program on the Northeast State application form.
- 3. See a faculty advisor representing the Health-Related Professions area prior to registering for classes and obtain faculty approval to register.

TYPICAL P	ROGRAM OF STUDY				
<u>Fall</u> BIOL 2010 SPCH 1010	Anatomy and Physiology I Fundamentals of Speech	4			
Elective	Communication Humanities/Fine Arts (an approved elective	3			
CHEM 1030	from the general education core) Introduction to Chemistry	4			
or BIOL 2230	Introduction to Microbiology	4			
Spring BIOL 2020 MATH 1530 ENGL 1010 HRPR 1000 PSYC 1030	Anatomy and Physiology II Probability & Statistics Composition I Introduction to Health-Related Professions General Psychology	4 3 3 3			
The Cardiovascular Technology Program is a selective admission program. Completing the general education requirements does not guarantee admission.					
Semester I-Summe	<u>er</u> Hospital Policies, Safety, and Procedures	1			
CVTE 2990	Special Topics in Cardióvascular Technology	2			
EMTP 1015 OFMG 1100	Cardiopulmonary Resuscitation Medical Terminology	1 3			
Semester II- Fall CVTE 1000 CVTE 1010 CVTE 1030 CVTE 1260 CVTE 2030	Physical Principles of Medicine Cardiovascular Physiology I Non-Invasive Instrumentation Clinical Practicum I Cardiovascular Diagnostic Principles	2 3 3 2 3			
Semester III - Spri CVTE 1040 CVTE 1110 CVTE 2040 CVTE 2050 CVTE 2060	ng Cardiovascular Physiology II Cardiovascular Physiology III Cardiac Diagnostic Procedures Vascular Diagnostic Procedures Clinical Practicum II	3 3 3 3			
Semester IV- Sum CVTE 2160	<u>mer</u> Clinical Practicum III	4			
Total Credit Hours 69					
Additional courses may be required to overcome deficiencies in English, mathematics and reading.					



TYPICAL JOB OPPORTUNITIES

Non-Invasive/Echocardiography Technologists may be employed in physician's offices, diagnostic clinics, hospitals, medical centers, and will assist in exercise and stress testing laboratories. Special emphasis for work in echocardiography labs, and vascular labs. Cardiovascular Technology is specifically concerned with the diagnosis and treatment of patients with cardiac and peripheral vascular disease.

CARDIOVASCULAR TECHNOLOGY NON-INVASIVE OPTION PROGRAM REQUIREMENTS

The Cardiovascular Technology program has specific admission criteria, and admission to Northeast State does not guarantee admission to this program. A student desiring admission to the Cardiovascular Technology Non-Invasive Option must complete all required general education courses listed in the typical program of study with a grade of "C" or higher. A student must have attained an overall 2.0 grade point average. Biological science courses previously taken must have been completed within the last 10 years. A student desiring admission to the Cardiovascular Technology Non-Invasive Option should contact the Health-Related Professions Division office at 423.323.0238.

PROGRAM OUTCOMES

Upon completion of the program, all students will demonstrate the ability to comprehend, apply, analyze, and evaluate information relevant to their roles as entry level Cardiovascular Technologists.

Upon completion of the program, all students will demonstrate technical proficiency in all skills necessary to fulfill the role of entry level Cardiovascular Technologists.

Upon completion of the program, all students will demonstrate personal behavior consistent with professional and employer expectations for the entry-level Cardiovascular Technologists.

Upon Completion of the program, all students will demonstrate critical thinking skills for inquiry and analysis assimilation of facts and knowledge, and problem solving.

FOR FURTHER INFORMATION CONTACT:

Sharon B. Mason, R.C.S.

Program Director/Non-Invasive Instructor

Telephone: 423.354.2569

Fax: 423.245.5930

E-mail: sbmason@NortheastState.edu

or

Connie Marshall, R.T. (R)
Dean, Health-Related Professions

Telephone: 423.323.0238

Fax: 423.245.5930

E-mail: cmarshall@NortheastState.edu

Ten-Year Projected Job Increase Rate*

29%

TN Average Salary* \$48,150

*Source:

Tennessee Bureau of Labor Statistics http://www.bls.gov



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Division of Academic Affairs

Approved Courses for General Education

Approved Cour	rses for General Education		Approved Cou	rses for General Education Continue	ed:	
Communication			History			
		3	To fulfill History requirement			
ENGL 1020 Composition II		3	HIST 1210	World History I	3	
To fulfill Oral Presentational Communication Requirement			HIST 1220	World History II	3	
SPCH 1010	Fundamentals of Speech Communication	3	HIST 2010	U.S. History I	3	
SPCH 2300	Public Speaking	3	HIST 2020	U.S. History II	3	
SPCH 2320	Argumentation and Debate	3	HIST 2030	Tennessee History	3	
	0					
Humanities and/or F	Fine Arts:		Natural Science			
To fulfill Literature r			To fulfill Natural Sc	cience requirement		
ENGL 2030	Literary Heritage	3	ASTR 1010	Astronomy I	4	
ENGL 2110	American Literature I	3	ASTR 1020	Astronomy II	4	
ENGL 2120	American Literature II	3	BIOL 1010	Introduction to Biology I	4	
ENGL 2130	American Masterpieces	3	BIOL 1020	Introduction to Biology II	4	
ENGL 2180	Myth and Tradition	3	BIOL 1030	Concepts in Biology	4	
ENGL 2210	English Literature I	3	BIOL 1110	General Biology I (Majors)	4	
ENGL 2220	English Literature II	3	BIOL 1120	General Biology II (Majors)	4	
ENGL 2330	World Literature	3	BIOL 2010	Human Anatomy and Physiology I	4	
	s/Fine Arts requirement	J	BIOL 2015	Environmental Science	4	
ARTH 1030	Introduction to Art	3	BIOL 2013 BIOL 2020	Human Anatomy and Physiology II	4	
ARTH 2010	Survey of Art History I	3	CHEM 1030	Introduction to Chemistry	4	
ARTH 2020	Survey of Art History II	3	CHEM 1030 CHEM 1110	General Chemistry I	4	
HUM 2010	Introduction to Humanities I	3				
		3	CHEM 1120	General Chemistry II	4	
HUM 2020	Introduction to Humanities II		PHYS 1030	Introduction to Physics	4	
HUM 2340	Black Studies	3	PHYS 2010	Non-Calculus Based Physics I	4	
HUM 2350	Technology in Society	3	PHYS 2020	Non-Calculus Based Physics II	4	
MUS 1030	Music Appreciation	3	PHYS 2110	Calculus-Based Physics I	4	
PHIL 1030	Self and World	3	PHYS 2120	Calculus-Based Physics II	4	
PHIL 2020	Values and Society	3	PSCI 1010	Physical Science I		
PHIL 2210	Introduction to the Study of Religion	3		(Physics and Chemistry)	4	
THEA 1030	Introduction to Theatre	3	PSCI 1020	Physical Science II		
THEA 2010	Theatre History I	3		(Earth/Space Science)	4	
THEA 2020	Theatre History II	3				
			<u>Mathematics</u>			
Behavioral and Social Sciences			To fulfill Mathemat			
	and Social Sciences requirement		MATH 1010	Mathematical Applications	3	
ECON 1050	Economics and Society	3	MATH 1410	Foundations of Numerical Concepts	3	
ECON 2010	Macroeconomics	3		(Education Majors Only)		
ECON 2020	Microeconomics	3	MATH 1530	Probability and Statistics	3	
GEOG 1030	Cultural Geography	3		(Non-Calculus Based)		
GEOG 2010	World Geography	3	MATH 1630	Finite Mathematics	3	
POLS 1030	American Government	3	MATH 1710	Pre-Calculus I (Algebra)	3	
POLS 2210	Comparative World Politics	3	MATH 1720	Pre-Calculus II	3	
PSYC 1030	General Psychology	3	MATH 1830	Calculus for Business	3	
PSYC 2130	Life Span Psychology	3	MATH 1910	Calculus I	4	
SOCI 1010	Introduction to Sociology	3				
SOCI 1020 Social Problems		3		may require specific general education courses. St		
SOCI 1030	Introduction to Anthropology	3	and advisors should	consult curriculum guides before making general ed	lucation	
SOCI 2010	Marriage and Family	3	course selections.			
SOCW 2010	Fitness, Wellness, and Society	3				
WMST 2010	Introduction to Women's Studies	3				

ACADEMIC PLAN FOR CATALOG YEAR 2015-2016

TIMELINE FOR DEGREE COMPLETION

Semester:	Cr Hrs	Semester:	Cr Hrs	Semester:	Cr H
Total Credit Hrs		Total Credit Hrs		Total Credit Hrs	
Semester:	Cr Hrs	Semester:	Cr Hrs	Semester:	Cr H
Total Credit Hrs		Total Credit Hrs		Total Credit Hrs	,
Semester:	Cr Hrs	Semester:	Cr Hrs	Semester:	Cr H
Total Credit Hrs		Total Credit Hrs		Total Credit Hrs	

Academic Advisor Signature Date



Meeting Dates:

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.

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We're here	to get you tl	here			

Northeast State Community College is part of the Tennessee Board of Regents system, the nation's sixth largest higher education system, governing 46 post-secondary educational institutions. The TBR system includes six universities, 13 two-year colleges and 27 technology centers, providing programs in 90 of Tennessee's 95 counties to more than 200,000 students.

Northeast State Community College does not discriminate against students, employees or applicants for admission or employment on the basis of race, color, religion, creed, ethnic national origin, sex, sexual orientation, gender identity/ expression, disability, age, status as a covered veteran, genetic information or any other legally protected class with respect to all employment, programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Leigh Hornsby, Equity & Compliance Officer/Chief Advancement Officer, P.O. Box 246, Blountville, TN 37617-0246, 423.354.5255, complianceofficer@NortheastState.edu. Northeast State Community College's police on nondiscrimination can be found at http://cwis.northeaststate.edu/ oie/policymanual/pol.asp?p=254.

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.