

## Division of Health Professions

# Medical Laboratory Technology

## An Associate of Applied Science Degree Program

### PROGRAM DESCRIPTION

The Medical Laboratory Technology program provides the general education core, program specific courses, and the clinical practicum to prepare students for careers as a Medical Laboratory Technician. The knowledge and skills acquired within the classroom and laboratory setting, enhances the learning opportunities for the medical laboratory technology student. Following the successful completion of the program, students are eligible to sit for the American Society of Clinical Pathology Examination.

*The Medical Laboratory Technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, (NAACLS).*

*NAACLS  
5600 N River Road  
Suite 720, Rosemont, Illinois 60018  
Phone: 773.714.8880*

### APPLICATION PROCEDURE

A student desiring to pursue the Associate of Applied Science degree in Medical Laboratory Technology must:

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

### TYPICAL PROGRAM OF STUDY

<u>Fall</u>		
BIOL 2010	Anatomy & Physiology I	4
BIOL 2230	Introduction to Microbiology	4
Elective	Humanities/Fine Arts (an approved elective from the general education core)	3
HRPR 1000	Introduction to Health-Related Professions	3
<u>Spring</u>		
BIOL 2020	Anatomy & Physiology II	4
MATH 1530	Introductory Statistics	3
ENGL 1010	English Composition I	3
PSYC 1030	Introduction to Psychology	3

**The Medical Laboratory Technology program is a selective admission program. Completing the general education requirements does not guarantee admission.**

<u>Semester I - Fall</u>		
ADMN 1306	Medical Terminology	3
MLAB 1301	Introduction to Medical Laboratory Technology	3
MLAB 2402	Hematology/Hemostasis	4
COMM 2025	Fundamentals of Communication	3
<u>Semester II - Spring</u>		
MLAB 2401	Clinical Chemistry	3
MLAB 2202	Urinalysis & Body Fluids	3
MLAB 2301	Immunohematology/Blood Bank	3
MLAB 2403	Clinical Microbiology	3

<u>Semester III - Summer</u>		
MLAB 2610	Clinical Practicum I	6

<u>Semester IV - Fall</u>		
MLAB 2620	Clinical Practicum II	6
MLAB 2350	Special Topics in Medical Laboratory Technology	3

Total Credit Hours 68

Additional courses may be required to overcome deficiencies in English, mathematics, and reading.

## TYPICAL JOB OPPORTUNITIES

Medical Laboratory Technicians may be employed in hospitals, public health facilities, physician's offices, and industries such as pharmaceutical companies. The Medical Laboratory Technician performs most analytical tests on human body fluid and tissues, providing data to the health care team for diagnosis and treatment.

## MEDICAL LABORATORY TECHNOLOGY PROGRAM ADMISSION REQUIREMENTS

The Medical Laboratory Technology program has specific admission criteria, and admission to Northeast State does not guarantee admission to this program. A student desiring admission to the Medical Laboratory Technology program 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. Students desiring admission to the Medical Laboratory Technology program should contact the Health 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 Medical Laboratory Technician.

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

Upon completion of the program, all students will demonstrate personal behavior consistent with professional and employer expectations for the entry level Medical Laboratory Technician.

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:

Rose Marie Spangler, MPH, MLS (ASCP)  
Program Director/Assistant Professor  
Telephone: 423.354.5500  
Fax: 423.245.5930  
E-mail: [rmspangler@NortheastState.edu](mailto:rmspangler@NortheastState.edu)

or

Connie Marshall, M.A., Associate Professor  
Dean, Health Professions  
Telephone: 423.323.0238  
Fax: 423.245.5930  
E-mail: [cmarshall@NortheastState.edu](mailto:cmarshall@NortheastState.edu)

**Ten-Year Projected Job Increase Rate\***  
13%

**TN Average Salary\***  
\$37,210

### \*Source:

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

### Academic Year 2015-2016

Number of Students at End of Award Year	14
Program Length	2 Semesters General Education 4 Semesters Program Specific

### Graduation Information

Number of Graduates During Award Year	15
Number Graduating within Normal Time	14
On-Time Graduation Rate	93%
ASCP Board of Certification/Exam Pass Rates	
Sitting for Exam	12
Passing Exam	12
Pass Rate	100%

### Employer Satisfaction Rating

Overall Satisfaction Rating	100%
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### Placement Rate

Program Graduates Continuing their Education	3
Program Graduates Employed in Field	11
Other	0

<u>Program Cost (Approximate per 12 hr semester)</u>	2015-2016
Full Time In State	\$2,085
Full Time Out of State	\$7,825



# Approved Courses for General Education

## Approved Courses for General Education

### Communication

ENGL 1010	English Composition I	3
ENGL 1020	English Composition II	3
To fulfill Oral Presentational Communication Requirement		
COMM 2025	Fundamentals of Communication	3
COMM 2045	Public Speaking	3
COMM 2055	Argumentation and Debate	3

### Humanities and/or Fine Arts:

#### To fulfill Literature requirement

ENGL 2045	Introduction to Literature	3
ENGL 2110	Early American Literature	3
ENGL 2120	Modern American Literature	3
ENGL 2130	Topics in American Literature	3
ENGL 2160	Mythology	3
ENGL 2210	Early British Literature	3
ENGL 2220	Modern British Literature	3
ENGL 2330	Topics in World Literature	3

#### To fulfill Humanities/Fine Arts requirement

ART 1035	Introduction to Art	3
ART 2000	Art History Survey I	3
ART 2020	Art History Survey II	3
HUM 1010	Early Humanities	3
HUM 1020	Modern Humanities	3
HUM 2340	Black Studies	3
HUM 2350	Technology in Society	3
MUS 1030	Introduction to Music	3
PHIL 1030	Introduction to Philosophy	3
PHIL 1040	Introduction to Ethics	3
PHIL 2200	Introduction World Religions	3
PHIL 2640	Science and the Modern World	3
THEA 1030	Introduction to Theatre	3
THEA 2010	Theatre History I	3
THEA 2020	Theatre History II	3

### Behavioral and Social Sciences

#### To fulfill Behavioral and Social Sciences requirement

ANTH 1230	Introduction to Cultural Anthropology	3
ECON 1050	Economics and Society	3
ECON 2100	Principles of Macroeconomics	3
ECON 2200	Principles of Microeconomics	3
GEOG 1012	Cultural Geography	3
GEOG 2010	World Regional Geography	3
MCOM 1110	Media and Social Institutions	3
POLS 1030	American Government	3
POLS 2050	Comparative World Politics	3
PSYC 1030	Introduction to Psychology	3
PSYC 2130	Lifespan Development Psychology	3
SOCI 1010	Introduction to Sociology	3
SOCI 1040	Social Problems	3
SOCI 2010	Marriage and Family	3
SOCW 2010	Fitness, Wellness, and Society	3
SRVL 1020	Introduction to Service Learning	3
WGST 2050	Introduction to Women/Gender Studies	3

## Approved Courses for General Education Continued:

### History

#### To fulfill History requirement

HIST 2010	Early United States History	3
HIST 2020	Modern United States History	3
HIST 2030	Tennessee History	3
HIST 2310	Early World History	3
HIST 2320	Modern World History	3

### Natural Science

#### To fulfill Natural Science requirement

ASTR 1010	Solar System Astronomy	4
ASTR 1020	Stars & Galaxies Astronomy	4
BIOL 1010	Introduction to Biology	4
BIOL 1020	Diversity in Life	4
BIOL 1080	Concepts in Biology	4
BIOL 1110	General Biology I	4
BIOL 1120	General Biology II	4
BIOL 1510	Environmental Science I	4
BIOL 2010	Human Anatomy and Physiology I	4
BIOL 2020	Human Anatomy and Physiology II	4
CHEM 1060	Survey of Chemistry	4
CHEM 1110	General Chemistry I	4
CHEM 1120	General Chemistry II	4
PHYS 1030	Survey of Physics	4
PHYS 2010	Non-Calculus Physics I	4
PHYS 2020	Non-Calculus Physics II	4
PHYS 2110	Calculus-Based Physics I	4
PHYS 2120	Calculus-Based Physics II	4
PSCI 1010	Principles of Physical Science	4
PSCI 1020	Principles of Earth/Space	4

### Mathematics

#### To fulfill Mathematics requirement

MATH 1010	Math for General Studies	3
MATH 1410	Number Concepts for Teachers (Education Majors Only)	3
MATH 1530	Introductory Statistics	3
MATH 1630	Finite Mathematics	3
MATH 1710	Pre-calculus Algebra	3
MATH 1720	Pre-calculus Trigonometry	3
MATH 1830	Applied Calculus	3
MATH 1910	Calculus I	4

Note: Some majors may require specific general education courses. Students and advisors should consult curriculum guides before making general education course selections.

ACADEMIC PLAN FOR CATALOG YEAR 2018-2019  
TIMELINE FOR DEGREE COMPLETION

Semester:	Cr Hrs
<b>Total Credit Hrs</b>	

Semester:	Cr Hrs
<b>Total Credit Hrs</b>	

Semester:	Cr Hrs
<b>Total Credit Hrs</b>	

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<b>Total Credit Hrs</b>	

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<b>Total Credit Hrs</b>	

Semester:	Cr Hrs
<b>Total Credit Hrs</b>	

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Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Academic Advisor Signature

\_\_\_\_\_  
Date



**NORTHEAST STATE**

*We're here to get you there*

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.**

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](mailto:complianceofficer@NortheastState.edu). Northeast State Community College's policy on nondiscrimination can be found at <http://cwis.northeaststate.edu/oie/policymannual/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.