



Baccalaureate Degree Plan

NCCCS Associate in Arts *or* Associate in Science
transfer to
East Carolina University, **BS CLINICAL LABORATORY SCIENCE**

Clinical laboratory scientists, also known as medical laboratory scientists or medical technologists, are hands-on scientists who provide accurate, timely diagnostic test results that directly impact patient care.

These professionals perform

- biochemical testing of blood and body fluids,
- culture microbial pathogens,
- operate high-tech instrumentation, and
- prepare blood products for transfusion.

Admission into the professional phase of the program is competitive. A minimum cumulative 2.0 GPA in biology and chemistry courses is required. Graduates are eligible for national certification.

As a transfer student, and because admission is by application packet, it is important to contact an ECU Academic Advisor, ppac@ecu.edu, as soon as possible.

An example of how to plan your first 2 years of the traditional 4 years of study is included at the end of this document.

Recommended courses to take at a North Carolina Community College

BIO 163
BIO 175

CHM 132
CHM 151
CHM 152

HEA 110

ENG 111
ENG 112

MAT 152
MAT 171

- Other courses to complete an AA or AS are student's choice; no other current department recommendations.
- ECU's General Education Core can be used as possible suggestions for additional courses; however, completion of an approved NCCCS AA or AS waives the General Education requirement.
- For more information about General Education Core Requirements at ECU, and a list of specific course options, click [here](#).
- You do not have to complete all NCCCS equivalents or recommended courses before transferring. However, taking minimal recommendations may prolong your time to degree at ECU.

Degree Requirements

General Education Core Requirements

40 semester hours credit required; completion of an approved NCCCS AA or AS waives this requirement.

Competency	Semester Hour Credits Required	Notes
Written Communication	6	<i>ENG 111 and ENG 112 should be taken at the community college to satisfy this competency.</i>
Humanities & Fine Arts	9	<i>At least one class should be labeled as Humanities (HU) and one should be labeled as Fine Arts (FA).</i>
Social Sciences	9	<i>NCCCS HIS courses are not considered a social science at ECU.</i>
Natural Sciences	7	<i>One course must include a lab.</i>
Mathematics	3	<i>Choose MAT 171.</i>
Health Promotion and Health-Related Physical Activity	3	<i>HEA 110 should be taken at the community college to satisfy this competency.</i>

General Education Specific Requirements	<p>Include the following, specific courses as part of your General Education Core:</p> <p>CHEM 1150 - General Chemistry I CHEM 1151 - General Chemistry Laboratory I CHEM 1160 - General Chemistry II MATH 1065 - College Algebra</p> <p>MATH 2228 - Elementary Statistical Methods I or PSYC 2101 - Psychological Statistics</p>	<p><i>NCCCS Equivalents</i></p> <p style="text-align: center;"><i>CHM 151</i></p> <p style="text-align: center;"><i>CHM 152</i> <i>MAT 171</i></p> <p style="text-align: center;"><i>MAT 152</i></p>
--	--	--

Core	<p>Complete 50 semester hour credits.</p> <p>CLSC 3410 - Hematology I CLSC 3411 - Hematology I Laboratory CLSC 3420 - Hematology II CLSC 3421 - Hematology II Laboratory CLSC 3430 - Clinical Immunology CLSC 3440 - Clinical Microscopy and Serology CLSC 3441 - Clinical Microscopy and Serology Laboratory CLSC 4210 - Immunohematology CLSC 4211 - Immunohematology Laboratory CLSC 4430 - Clinical Chemistry I CLSC 4431 - Clinical Chemistry I Laboratory CLSC 4440 - Clinical Chemistry II CLSC 4441 - Clinical Chemistry II Laboratory CLSC 4460 - Clinical Bacteriology CLSC 4461 - Clinical Bacteriology Laboratory CLSC 4470 - Clinical Mycology, Parasitology, and Other Microorganisms CLSC 4471 - Clinical Mycology, Parasitology, and Other Microorganisms Laboratory CLSC 4491 - Molecular Diagnostics in Clinical Laboratory Science I CLSC 4492 - Molecular Diagnostics in Clinical Laboratory Science II</p>	<p><i>NCCCS Equivalents for CLSC courses do not currently exist.</i></p>
-------------	---	--

	CLSC 4801 - Professional Practice Issues I CLSC 4802 - Professional Practice Issues II CLSC 4992 - Clinical Education: Hematology, Coagulation, Urinalysis CLSC 4993 - Clinical Education: Chemistry CLSC 4994 - Clinical Education: Blood Bank and Serology CLSC 4997 - Clinical Education: Microbiology	
Cognates	Complete 17 semester hour credits. BIOL 1150 - Principles of Biology: A Human Approach BIOL 1151 - Principles of Biology: A Human Approach Discussion BIOL 2110 - Fundamentals of Microbiology BIOL 2111 - Fundamentals of Microbiology Laboratory BIOL 2130 - Survey of Human Physiology and Anatomy CHEM 1130 - Organic and Biochemistry for the Allied Health Sciences CHEM 1161 - General Chemistry Laboratory II	<i>NCCCS Equivalents</i> <i>BIO 175</i> <i>BIO 163</i> <i>CHM 132</i> <i>CHM 152</i>
Electives to complete requirements for graduation.	Hours vary.	
Licensure/Certification Requirements in North Carolina	The curriculum for all ECU Certificates, Degrees, and Minors have been designed to meet the licensure/certification requirements in North Carolina and prepare students to sit for licensure/certification exams in North Carolina. The various licensure boards in each state are responsible for setting requirements for licensure/certification in their state. Other states have their own requirements, and you'll want to make sure your program meets criteria in your home state (or state where you intend to work) before you apply. Search our state Licensure Dashboard to see if the program you're interested in meets the educational requirements for licensing/certification in your home state (or state where you intend to work).	

Potential 2 Year Map for BS Clinical Laboratory Science

An example of courses to take at your community college.

First Semester at NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
ENG 111	ENGL 1100
Humanities/Fine Arts course	
MAT 171	MATH 1065
HEA 110	HLTH 1000/KINE 1000
ACA 122	COAD 1XXX (elective credit)

Second Semester at NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
CHM 151	CHEM 1150, 1151
Social Behavioral Science course	
Humanities/Fine Arts course	
MAT 152	MATH 2228
Additional General Education course	

Third Semester at a NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
ENG 112	ENGL 2201
Humanities/Fine Arts course or additional Math course	
Social Behavioral Science course	
BIO 175	BIOL 2110
CHM 152	CHEM 1160, 1161

Fourth Semester at a NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
Social Behavioral Science course or Additional General Education course	
CHM 132	CHEM 1130
Additional General Education course or Elective	
Additional General Education course or Elective	

- Schedule at ECU will depend on courses completed at the community college and semester of entry (fall or spring).
- You should email ppac@ecu.edu as soon as possible for more specialized advising.
- This schedule is dependent on taking full-time course loads; however, it may not be realistic to take a full-time course load if you are working full-time or part-time, are a caregiver, or have other obligations. *Ask your advisor how you can be most successful.*