



Baccalaureate Degree Plan

NCCCS Associate in Arts *or* Associate in Science
transfer to
East Carolina University, **BS Chemistry**

The Chemistry, BS degree is the appropriate program for students considering advanced degree programs in

- chemistry,
- biochemistry, and
- other related fields or
- a professional career in chemistry.

Graduates of this program meet certification requirements of the American Chemical Society.

- As a transfer student, it is important to contact an ECU Academic Advisor, thcasadvising@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.

Optional/Recommended Courses to take at a North Carolina Community College

*While ECU will transfer all courses with a "C" or higher (no limit to amount), you **must complete half (60 hours) of the courses required for your degree at ECU.** Therefore, taking all of the optional course equivalents in this degree plan may not be in your best interest. Speak with your community college advisor about your best option for completing your AA or AS.*

CHM 151	ENG 111	MAT 171	PHY 151
CHM 152	ENG 112	MAT 172	PHY 152
CHM 251		MAT 271	PHY 251
CHM 252	HEA 110	MAT 272	PHY 252
		MAT 273	

- Other courses to complete an AA or AS are student's choice; no other current department recommendations. Other equivalent courses are listed in the degree requirements. Due to the amount of science courses required for this degree, you may not be able to take all of them before transferring. *That is okay!*
- Completion of an approved NCCCS AA or AS waives the General Education requirement. For more information about the waiver, [click here](#).
- 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 SPECIFIC EDUCATION REQUIREMENTS	Include as part of the 40 required General Education Core hours, the following courses: MATH 1065 - College Algebra PHYS 1251 - General Physics Laboratory I PHYS 2350 – University Physics I	NCCCS Equivalents: MAT 171 PHY 151 PHY 251
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CORE	Complete 43 semester hour credits. CHEM 1150 - General Chemistry I CHEM 1151 - General Chemistry Laboratory I CHEM 1160 - General Chemistry II CHEM 1161 - General Chemistry Laboratory II CHEM 2103 - Introduction to Chemical Literature CHEM 3250 - Quantitative and Instrumental Analysis CHEM 3251 - Quantitative and Instrumental Analysis Laboratory CHEM 2750 - Organic Chemistry I CHEM 2753 - Organic Chemistry Laboratory I CHEM 2760 - Organic Chemistry II CHEM 2763 - Organic Chemistry Laboratory II CHEM 3770 - Biological Chemistry CHEM 3450 - Elementary Inorganic Chemistry CHEM 3451 - Elementary Inorganic Chemistry Laboratory CHEM 3950 - Physical Chemistry I CHEM 3951 - Physical Chemistry I Laboratory CHEM 3960 - Physical Chemistry II CHEM 3961 - Physical Chemistry II Laboratory CHEM 4350 - Instrumental Analysis CHEM 4351 - Instrumental Analysis Laboratory	NCCCS Equivalents CHM 151 CHM 152 CHM 251 CHM 252
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Electives	Complete 3-5 semester hour credits. BIOL 4890 - Principles of Biochemistry II CHEM 4517 - Research Problems in Chemistry CHEM 4522 - Pharmaceutical Industry Skills Laboratory: Good Manufacturing Practices	No NCCCS Equivalents currently exist in the electives area.
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	<p>CHEM 4550 - Advanced Inorganic Chemistry CHEM 5760 - Organic Structure Elucidation CHEM 5993 - Industrial Internship in Chemistry</p> <p><i>Note:</i> (If the elective hours selected above includes CHEM 4517 or CHEM 5993, then lab elective requirements have been fulfilled. If the elective hours selected above includes CHEM 4522, then select at minimum 1 s.h. from the list below. If the elective hours selected above includes BIOL 4890 or CHEM 4550 or CHEM 5760, then select at minimum 2 s.h. from the list below.)</p> <p>BIOL 4891 - Principles of Biochemistry Laboratory CHEM 2301 - Chemistry Instruction CHEM 3771 - Biological Chemistry Laboratory CHEM 3301 - Practicum in Teaching CHEM 4515 - Research Problems in Chemistry CHEM 4516 - Research Problems in Chemistry PHYS 4700 - Advanced Laboratory PHYS 4701 - Advanced Laboratory</p>	
Cognates	<p>Complete 20-22 semester hour credits.</p> <p>MATH 1083 - Introduction to Functions or MATH 1085 - Pre-Calculus Mathematics</p> <p>MATH 2171 - Calculus I MATH 2172 - Calculus II MATH 2173 - Calculus III PHYS 1261 - General Physics Laboratory II PHYS 2360 - University Physics II</p>	<p><i>NCCCS Equivalents</i></p> <p><i>MAT 172</i></p> <p><i>MAT 271</i> <i>MAT 272</i> <i>MAT 273</i> <i>PHY 152</i> <i>PHY 252</i></p>
Electives to complete requirements for graduation.	Complete any hours needed for degree requirements.	

Potential 2 Year Map for BS Chemistry

An example of courses to take at your community college,
if you plan to take a full-time course load and not participate in summer semesters.

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
Humanities/Fine Arts Course	
MAT 172	MATH 1083
Social Behavioral Science Course	
Additional General Education Course or Elective	

Third Semester at a NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
ENG 112	ENGL 2201
CHM 152	CHEM 1160, 1161
MAT 271	MATH 2171
Social Behavioral Science Course	
Humanities/Fine Arts Course or Additional General Education Course	

Fourth Semester at a NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
MAT 272	MATH 2172
Social Behavioral Course or Additional General Education Course	
PHY 251	PHYS 2350
Elective (s) to complete degree	

- Schedule at ECU will depend on courses completed at the community college and semester of entry (fall or spring).
- You should email thcasadvising@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.**