Baccalaureate Degree Plan

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

The core curriculum in biology is intended to give majors a background in biodiversity, cell biology, evolution, ecology, genetics, molecular biology, and physiology. BIOL 1100, BIOL 1101, BIOL 1200, BIOL 1201, and BIOL 2300 constitute the core curriculum.

- 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.

Recommended courses to take at a NCCCS community college:

BIO 111	**ENG 111**	**MAT 152**	**PHY 151**
BIO 112	**ENG 112**	**MAT 171**	**PHY 152**
		MAT 263	
CHEM 151	**HEA 110**		
CHEM 152			

- Other courses to complete an AA or AS are student's choice; no other current department recommendations.
- Completion of an approved NCCCS AA or AS waives the General Education requirement. For more information about the General Education 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 Requirements

40 semester hours credit required.

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

General Education Requirements	**Complete 40 semester hour credits including:** • CHEM 1150 & 1151: General Chemistry I with Lab • MATH 1065: College Algebra or higher approved GE math For more information, click here.	*NCCCS Equivalents:* *CHM 151* *MAT 171*

Core	**Complete 11 semester hour credits.** BIOL 1100 & 1101: Principles of Biology I with Lab BIOL 1200 & 1201: Principles of Biology II with Lab BIOL 2300: Principles of Genetics	*NCCCS Equivalents* *BIO 111* *BIO 112* *BIO 250*

Concentrations	**Choose one concentration from Biology, Ecology/Evolution, and Molecular/Cell Biology.**	
Biology	**Complete 30 semester hour credits.** **Required lecture courses** (12 semester hour credits) BIOL 2250 - Ecology BIOL 3030 - Principles of Physiology BIOL 3260 - Cell and Developmental Biology BIOL 3620 - Biological Evolution **Electives** (18 semester hour credits) • Choose at least one elective from the ecology/evolution concentration specific electives list. • Choose at least one elective from the molecular/cell biology concentration specific electives list. • Choose at least one laboratory course. • Choose 10-12 shc of biology electives including 2 classes at the 3000 or 4000 level.	*NCCCS Equivalents* *BIO 145*
Ecology/Evolution	**Complete 31 semester hour credits.** **Required lecture courses** (10 semester hour credits) BIOL 2250 - Ecology	*NCCCS Equivalents* *BIO 145*

	BIOL 2251 - Ecology Laboratory BIOL 3030 - Principles of Physiology **or** BIOL 3260 - Cell and Developmental Biology BIOL 3620 - Biological Evolution **Electives** (21 semester hour credits) • Choose 12 shc from the ecology/evolution concentration specific electives list (choose at least one course in organismal diversity and one course in ecological/evolutionary processes). • Choose 3 shc from the molecular/cell biology concentration specific electives list. • Choose 6 shc of any biology electives (at least one class must be at the 3,000 or 4,000 level).	
Molecular/Cell Biology	**Complete 30 semester hour credits.** **Required lecture courses** (9 semester hour credits) BIOL 2250 - Ecology **or** BIOL 3620 - Biological Evolution BIOL 3030 - Principles of Physiology BIOL 3260 - Cell and Developmental Biology **Electives** (21 semester hour credits) • Choose at least 12 shc from the molecular/cell biology concentration specific electives list. • Choose 3 shc from the ecology/evolution concentration specific electives list. • Choose 6 shc of any biology electives (at least one class must be at the 3,000 or 4,000 level).	*NCCCS Equivalents* *BIO 145*

Concentration Specific Electives		
Ecology/Evolution	**a. Organismal diversity** BIOL 3070, BIOL 3071; BIOL 3150; BIOL 3230, BIOL 3231; BIOL 3240, BIOL 3241; BIOL 4400, BIOL 4500; BIOL 4600, BIOL 4601; BIOL 4770, BIOL 4771; BIOL 5150, BIOL 5151; BIOL 5220, BIOL 5221; BIOL 5230, BIOL 5231; BIOL 5550, BIOL 5551; BIOL 5640, BIOL 5641; BIOL 5950, BIOL 5951 **b. Ecological/evolutionary process** BIOL 3660, BIOL 3661; BIOL 3740, BIOL 3741; BIOL 4130; BIOL 4200, BIOL 4201; BIOL 4205; BIOL 4210; BIOL 4240, BIOL 4250; BIOL 4300, BIOL 4301; BIOL 4320; BIOL 4440, BIOL 4441; BIOL 4500; BIOL 4560; BIOL 4740, BIOL 4741; BIOL 5260, BIOL 5261; BIOL 5270, BIOL 5600, BIOL 5601, BIOL 5680; BIOL 5740; GEOL 5300	*NCCCS Equivalents* *BIO 243* *(=BIOL 3660, 3661)*
Molecular/Cell Biology	BIOL 2100, BIOL 2101; BIOL 3220, BIOL 3221; BIOL 3310, BIOL 3311; BIOL 3320, BIOL 3321; BIOL 3820; BIOL 4030, BIOL 4040; BIOL 4050, BIOL 4051; BIOL 4060, BIOL 4061; BIOL 4130; BIOL 4170; BIOL 4205; BIOL 4220; BIOL 4230; BIOL 4260, BIOL 4270, BIOL 4420, BIOL 4650; BIOL 4800; BIOL 4880; BIOL 4890, BIOL 4891; BIOL 5260, BIOL 5261; BIOL 5450, BIOL 5451; BIOL 5870; BIOL 5890; BIOL 5900, BIOL 5901; CHEM 3770	*NCCCS Equivalents* *BIO 280* *(=BIOL 2100, 2101)* *BIO 275* *(=BIOL 3220, 3221)*

Cognates	**Complete 26 semester hour credits.**	*NCCCS Equivalents*
	CHEM 1160 - General Chemistry II	*CHM 152*
	CHEM 1161 - General Chemistry Laboratory II	
	CHEM 2750 - Organic Chemistry I	*CHM 251*
	CHEM 2753 - Organic Chemistry Laboratory I	
	CHEM 2760 - Organic Chemistry II	*CHM 252*
	CHEM 2763 - Organic Chemistry Laboratory II	
	MATH 2121 - Calculus for the Life Sciences I **or**	*MAT 263*
	MATH 2171 - Calculus I	*MAT 271*
	MATH 2122 - Calculus for the Life Sciences II **or**	
	MATH 2172 - Calculus II	*MAT 272*
	PHYS 1250 - General Physics I	*PHY 151*
	PHYS 1251 - General Physics Laboratory I	
	PHYS 1260 - General Physics II	*PHY 152*
	PHYS 1261 - General Physics Laboratory II	

Research Skills	**Complete 6 semester hour credits.**	*NCCCS Equivalents*
	BIOS 1500 - Introduction to Biostatistics **or**	
	MATH 2228 - Elementary Statistical Methods I **or**	*MAT 152*
	MATH 2283 - Statistics for Business **or**	
	PSYC 2101 - Psychological Statistics	
	ENGL 3820 - Scientific Writing **or**	
	ENGL 3880 - Writing for Business and Industry **or**	
	ITEC 3290 - Technical Writing	

Electives	Complete electives for graduation requirement.	

Potential 2 Year Map for BS Biology

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*

Second Semester at NCCCS Institution

NCCCS Course	*ECU Transfer Equivalent*
CHM 151	*CHEM 1150, 1151*
BIO 111	*BIOL 1100/1101*
PHY 151	*PHYS 1250/1251*

Third Semester at a NCCCS Institution

NCCCS Course	*ECU Transfer Equivalent*
Humanities/Fine Arts Course	
ENG 112	*ENGL 2201*
CHM 152	*CHEM 1160, 1161*
BIO 112	*BIOL 1200, 1201*

Fourth Semester at a NCCCS Institution

NCCCS Course	*ECU Transfer Equivalent*
Social Science Courses (2)	
MAT 152	*MATH 2283*
PHY 152	
(Or any other combination of courses to meet your degree requirements)	

- 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.***
- You do not have to complete all NCCCS equivalents, as listed in the Degree requirements, before transferring. Your advisor can assist in planning which courses best suit your needs at the community college.