

Thomas Harriot College of Arts and Sciences
B.S. in Biology: Molecular/Cell Concentration (Pre-Med option)

Please note that this is a **recommended** sequence.

Check catalog for prerequisites. Course availability may vary from semester to semester.

FRESHMAN YEAR			
Fall Semester		Spring Semester	
BIOL 1100, 1101 [†]	4	BIOL 1200, 1201 [†]	4
CHEM 1150, 1151 [†]	4	CHEM 1160, 1161 [†]	4
ENGL 1100 (WI)	3	HLTH 1000	2
MATH 1065 [†]	3	MATH 2121	3
PSYC 1000 (GE:SO) [†]	3	SOCI 2110 (GE:SO) [†]	3
	17		16
SOPHOMORE YEAR			
Fall Semester		Spring Semester	
BIOL 2300 (Genetics)	3	BIOL 3030 (Princ of Physiology)	3
CHEM 2750, 2753 [†]	4	BIOL 3260 (Cell and Dev Biol)	3
ENGL 2201 (WI)	3	CHEM 2760, 2763 [†]	4
Humanities [#]	3	Fine Arts	3
MATH 2122	3	MATH 2228, 2283, BIOS 1500 or PSYC 2101 [†]	3
	16		16
JUNIOR YEAR			
Fall Semester		Spring Semester	
BIOL 2250 or 3620	3	BIOL 3220, 3221)* [†]	4
BIOL 4880 or CHEM 3770)* [†]	3	BIOL Elective*	3
Humanities [#] or Fine Arts	3	ENGL 3820 (WI)	3
PHYS 1250, 1251 [†]	4	KINE 1000	1
Social Sciences [#]	3	PHYS 1260, 1261 [†]	4
	16		15
SENIOR YEAR			
Fall Semester		Spring Semester	
BIOL Elective*	3	BIOL Elective*	3
BIOL Elective*	3	BIOL Elective*	3
Additional Gen Ed Course	3	Free Elective [#]	3
Free Elective (WI) [#]	3	Free Elective [#]	3
	12		12
TOTAL HOURS			120

Contact: BUG@ecu.edu

Confirmed by: GFC

Updated: May 2025

NOTES:

* Must complete 21 hours of Specified BIOL electives. Including at least 12 s.h. from the molecular/cell concentration specific list; at least 3 s.h. from the ecology/evolution concentration specific list; and 6 s.h. of any BIOL electives with at least one at the 3000 or 4000 level. Consult undergraduate catalog and advisor when selecting these courses.

[†] BIOL 4880 (or CHEM 3770) is required for medical school. BIOL 3220/21 is recommended for medical school. Pre-med courses should be completed by spring of Junior year in order to take MCAT.

[#] The Foundations of American Democracy requirements (FAD-1 and FAD2) should be fulfilled through the completion of one or two of the courses with the specific attributes.

Students interested in research or graduate school are encouraged to take BIOL 3504, BIOL 3550, and/or BIOL 4995 as BIOL electives or free electives.

For additional assistance, please consult ECU's Pre-Professional Advising Center at ppac.ecu.edu