

Thomas Harriot College of Arts and Sciences
B.S. in Biology: Molecular/Cell Concentration

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	KINE 1000	1
MATH 1065	3	MATH 2121	3
		Social Sciences [#]	3
	14		15
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
MATH 2122	3	Humanities [#]	3
Social Sciences [#]	3	Social Sciences [#]	3
	16		16
JUNIOR YEAR			
Fall Semester		Spring Semester	
BIOL 2250 or 3620	3	BIOL Elective*	3
BIOL Elective*	3	ENGL 3820 (WI)	3
Fine Arts	3	Humanities [#] or Fine Arts	3
HLTH 1000	2	MATH 2228, or 2283, or BIOS 1500	3
PHYS 1250, 1251	4	PHYS 1260, 1261	4
	15		16
SENIOR YEAR			
Fall Semester		Spring Semester	
BIOL Elective*	3	BIOL Elective* with lab	4
BIOL Elective*	3	BIOL Elective*	3
BIOL Elective*	3	Free Elective	3
Additional General Ed course (WI)	3	Free Elective	3
Free Elective	3		
	15		13
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.

[#] 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.