

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

Please note that this is a **recommended** sequence. Check catalog for prerequisites.  
 Course availability may vary from semester to semester.

<b>FRESHMAN YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BIOL 1100, 1101 <sup>†</sup>	4	BIOL 1200, 1201 <sup>†</sup>	4
CHEM 1150, 1151 <sup>†</sup>	4	CHEM 1160, 1161 <sup>†</sup>	4
ENGL 1100 (WI) <sup>†</sup>	3	MATH 2121 <sup>†</sup>	3
MATH 1065	3	Social Sciences (GD or DD)	3
		KINE 1000	1
	<b>14</b>		<b>15</b>
<b>SOPHOMORE YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BIOL 2300 (Genetics)	3	BIOL 3260 (Cell and Develop Biol)	3
CHEM 2750, 2753 <sup>†</sup> (Organ Chem I)	4	CHEM 2760, 2763 <sup>†</sup> (Organ Chem II)	4
ENGL 2201 (WI) <sup>†</sup>	3	MATH 2228, or 2283, or BIOS 1500 <sup>†</sup>	3
MATH 2122	3	Social Sciences	3
Social Sciences (GD or DD)	3	Fine Arts	3
	<b>16</b>		<b>16</b>
<b>JUNIOR YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BIOL 4880 (Biochemistry I) <sup>*#†</sup>	3	BIOL 3030 (Principles of Physiology)	3
BIOL 3220/3221 (Microbiology) <sup>*#†</sup>	4	BIOL 2130 (Human A&P) <sup>*#†</sup>	4
PHYS 1250, 1251 <sup>†</sup>	4	BIOL 2131 (Human A&P lab) <sup>#†</sup>	1
HLTH 1000	2	PHYS 1260, 1261 <sup>†</sup>	4
Free Elective	3	Free Elective	3
	<b>16</b>		<b>15</b>
<b>SENIOR YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BIOL 2250 or 3620	3	BIOL Elective*	4
BIOL Elective*	3	BIOL Elective*	3
ENGL 3820 (WI)	3	Humanities or Fine Arts	3
Humanities	3	Free Elective (WI)	3
Additional General Ed course	3		
	<b>15</b>		<b>13</b>
<b>TOTAL HOURS</b>			<b>120</b>

Contact: BUG@ecu.edu

Confirmed by: GFC

Updated: March 2024

**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 2130/2131, 3220/3221, and 4880 (or CHEM 3770) recommended for dental school.*

*† Pre Dental courses (listed in blue) should be completed by spring of Junior year in order to take DAT.*

*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 for pre-dental, please consult ECU's Pre-Professional Advising Center at ppac.ecu.edu*