

Thomas Harriot College of Arts and Sciences  
 College of Allied Health Sciences  
**Double Major in B.S. in Biology: Molecular/Cell Concentration  
 and B.S. in Clinical Laboratory Sciences**

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	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	Social Sciences (GD or DD)	3
	<b>17</b>		<b>16</b>
<b>SOPHOMORE YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BIOL 2300 (Genetics)	3	BIOL 2250 or 3620	3
CHEM 2750, 2753	4	BIOL 3260 (Cell and Dev Biol)	3
ENGL 2201 (WI)	3	CHEM 2760, 2763	4
MATH 2122	3	Fine Arts (GD or DD)	3
PHYS 1250, 1251	4	PHYS 1260, 1261	4
	<b>17</b>		<b>17</b>
<b>JUNIOR YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BIOL 2130 (Sur Human A&P)*	4	CLSC 3410, 3411 (Hematology 1)	4
BIOL 3030 (Princ of Physiology)	3	CLSC 3430 (Immunology)*	2
BIOL 3220, 3221 (Microbiology)*	4	CLSC 4430, 4431 (Clini Chem 1)	4
Humanities	3	CLSC 4460, 4461 (Bacteriology)*	5
MATH 2228 or PSYC 2101	3-4		
	<b>17-18</b>		<b>15</b>
<b>Summer Term</b>			
CLSC 3440, 3441 (Clinical Microscopy & Serology)*			3
CLSC 4210, 4211 (Immunohematology)			4
CLSC 4491 (Molecular Diagnostics 1)			1
Social Sciences			3
			<b>11</b>
<b>SENIOR YEAR</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CLSC 3420, 3421 (Hematology 2)	4	CLSC 4492 (Molecular Diagnostics 2)	1
CLSC 4440, 4441 (Clin Chem 2)	4	CLSC 4802 (PPI, WI)	3
CLSC 4470, 4471 (Myco/Paras/Other)*	4	CLSC 4992 (Clin Hema)	2
CLSC 4801 (PPI; WI)	3	CLSC 4993 (Clin Chem)	2
KINE 1000	1	CLSC 4994 (Clin Immu)	2
		CLSC 4997 (Clin Micro)	2
		Humanities or Fine Arts	3
	<b>16</b>		<b>15</b>
<b>TOTAL HOURS</b>			<b>141-142</b>

**Updated:** Jun 2024

**NOTES:**

*\* Must complete 21 hours of Specified electives. Including BIOL 3220/3221 as the ecology/evolution elective, 6 s.h. with at least one at the 3000 or 4000 level (BIOL 2130 and CLSC 3430), and 11 s.h. of CLSC courses that count as Molecular/Cell Biology electives with Degree Works petitions.*

*4 Writing Intensive (WI) courses must be completed, including ENGL 1100, 2201, CLSC 4801, and 4802. CLSC 4802 can count toward the research writing skills with a Degree Works petition.*

*Grade of C or higher required in all science and CLSC courses.*

Contact: [BUG@ecu.edu](mailto:BUG@ecu.edu), [evansgu15@ecu.edu](mailto:evansgu15@ecu.edu)

Confirmed by: GFC