

**Thomas Harriot College of Arts and Sciences**  
**B.S. in Chemistry**

**This 4-year plan is designed for students who start by taking MATH 1065 with CHEM 1150.**

The BS degree in chemistry offers in-depth coverage of all major areas of chemistry, featuring challenging advanced coursework for our majors. Students who earn a BS in chemistry are equipped with skills that enhance their marketability to a wide variety of employers in technology and science, and are well-prepared to enter graduate school in chemistry or professional school such as medical, dental, or pharmacy school. Our BS degree is certified by the American Chemical Society, the largest professional scientific organization in the world.

**FRESHMAN YEAR**

<b>Fall Semester</b>		<b>Spring Semester</b>	
CHEM 1150, 1151 (Gen Chem I)	3,1	CHEM 1160, 1161 (Gen Chem II)	3,1
MATH 1065 (College Algebra)	3	MATH 1083 (Precalc)	3
ENGL 1100 (College Writing)	3	HLTH 1000 (Health)	2
Humanities/Fine Arts	3	Humanities	3
Social Science	3	Social Science	3
	16		15

**SOPHOMORE YEAR**

CHEM 2750, 2753 (Organic Chem I)	3,1	CHEM 2760, 2763 (Organic Chem II)	3,1
MATH 2171 (Calculus I)	4	MATH 2172 (Calculus II)	4
ENGL 2201 (Writing / Disciplines)	3	PHYS 2350, 1251 (Univ Physics I)	4,1
KINE 1000 (Physical Activity)	1	Fine Arts	3
Social Science	3		16
	15		

**JUNIOR YEAR**

CHEM 3250, 3251 (Quant. Analysis)	3,2	CHEM 3950/3951 (Phys Chem I)	4,1
MATH 2173 (Calculus III)	4	CHEM 3450, 3451 (Inorganic Chem)	3,1
PHYS 2360, 1261 (Univ Physics II)	4,1	Electives*	6
CHEM 2103 (Chemical Literature)	1		15
	15		

**SENIOR YEAR**

CHEM 3960, 3961 (Phys Chem II)	4,1	CHEM 4350/4351 (Instrum. Analysis)	3,1
CHEM 3770 (Biological Chem)	3	Restricted Elective***	3
Elective Lab**	1	Elective Lab**	1
Electives*	5	Electives*	3
	14	Social Science, Humanities, Fine Arts, Science, or Math	3
			14

\*An elective can be any course in any department. Consider taking prerequisites for graduate or professional schools when this degree plan lists "electives."

\*\*This degree plan requires 2 s.h. of elective labs. Choose from CHEM 2301 (2 s.h.), CHEM 3771 (1 s.h.), CHEM 3301 (1 s.h.), CHEM 4515 (1 s.h.), CHEM 4516 (2 s.h.), CHEM 4517 (3 s.h.), CHEM 4522 (2/1 s.h.) CHEM 5993 (3 s.h.), BIOL 4891 (1 s.h.), or PHYS 4700/4701 (3/0 s.h.). Note: CHEM 4522 is a 2 s.h. lecture and 1 s.h. lab combined course and only satisfies 1 s.h. lab elective credit.

\*\*\*Choose one restricted elective from the following list: CHEM 4517, 4522, 4550, 5760, 5993, or BIOL 4890. All restricted electives are 3 s.h. If a 3 s.h. Elective Lab\*\* is chosen, it meets both the Elective Lab\*\* and Restricted Elective\*\*\* requirement.

[CHEMISTRY@ECU.EDU](mailto:CHEMISTRY@ECU.EDU)



**Total hours completed: 120**  
**Updated: 03/2024**  
**Confirmed: LJB**