B.S. CHEMISTRY—PROFESSIONAL OPTION SAMPLE CURRICULUM

→ FRESHMAN YEAR

FALL			SPRING		
CHEM 111/111L	General Chemistry I and Lab	4	CHEM 112/112L	General Chemistry II and Lab	5
MATH 170	Calculus I	4	MATH 175	Calculus II	4
ENGL 102	Writing and Rhetoric	3	COMM 101	Fundamentals of Oral Communication	3
CS 112	Computational Thinking and Prob. Solv.	3	ECON 201	Princ. of Macroeconomics (Soc. Sci. 1 of 2)	3
ART 100	Intro. to Art (Hum. 1 of 2)	3			
	Semester total:	17		Semester total:	15

→ SOPHOMORE YEAR

FALL		SPRING			
★CHEM 253/254	Quantitative Analysis and Lab	5	◆CHEM 372/374	Organic Chemistry II and Lab	4
CHEM 277/278	Organic Chemistry I and Lab	4	PHYS 211/211L	Engineering Physics I and Lab	4
MATH 275	Calculus III	3	CHEM 491	Research	2
STAT 251	Statistical Methods (Elec.)	3	ANTH 261	Language and Culture (Soc. Sci. 2 of 2)	3
			MATH 310	Ordinary Differential Equations (Elec.)	3
	Semester total:	15		Semester total:	16

→ JUNIOR YEAR

FALL			SPRING		
★CHEM 305/307	Physical Chemistry I and Lab	4	◆CHEM 306/308	Physical Chemistry II and Lab	4
PHYS 212/212L	Engineering Physics II and Lab	4	FLEN 307	Institutions of the European Union (Int.)	3
★ BIOL 380	Biochemistry I	4	PHIL 351	Philosophy of Science (Hum. 2 of 2)	3
ENGL 202	Technical Writing I (Elec.)	3	CHEM 491	Research (Elec.)	2
			◆PHYS 213	Engineering Physics III (Elec.)	3
	Semester total:	15		Semester total:	15

→ SENIOR YEAR

FALL			SPRING			
★CHEM 463	Inorganic Chemistry I	3	◆CHEM 464/465	Inorganic Chemistry II and Lab	4	
CHEM 409	Proseminar	1	◆CHEM 454	Instrumental Analysis	4	
★CHEM 473	Interm. Organic Chem. (Adv. Chem. 1 of 2)	3	POLS 333	American Political Culture (Am. Div.)	3	
★CHEM 495	Statistical Thermo. (Adv. Chem. 2 of 2)	3	◆CHEM 418	Environmental Chemistry (Elec.)	3	
CHEM 491	Research (Elec.)	3				
	Semester total:	13		Semester total:	14	

NOTES

- · This sample curriculum totals 120 credits (the required number to graduate).
- · Courses listed in red are required.
- Courses listed in blue are required but have alternatives to choose from (e.g., ART 101 is one of any number of courses that will count toward the fulfillment of the "Humanistic and Artistic Ways of Knowing" requirement).
- · Courses labeled with a star (*) are only offered in the fall.
- Courses labeled with a diamond (◆) are only offered in the spring.
- Courses in black are "free" electives taken only for their credit contribution to the 120 required to graduate. As such, they can be any course of your choosing (i.e., any discipline, any level).