

SAMPLE CURRICULUM FOR B.S. CHEMISTRY (PRE-MED OPTION)

→ FRESHMAN YEAR

FALL			SPRING		
CHEM 111	<i>Principles of chemistry I (incl. lab)</i>	4	CHEM 112	<i>Principles of chemistry II (incl. lab)</i>	5
MATH 170	<i>Calculus I</i>	4	MATH 175	<i>Calculus II</i>	4
ISEM 101	<i>Integrated seminar</i>	3	ART 202	<i>Early modern art (Hum.)</i>	3
ENGL 102	<i>College writing and rhetoric</i>	3	ENGL 317	<i>Technical writing (Comm.)</i>	3
CS 112	<i>Intro to problem solving and programming</i>	3			
Semester total:			Semester total:		
17			15		

→ SOPHOMORE YEAR

FALL			SPRING		
★CHEM 253	<i>Quantitative analysis</i>	3	◆CHEM 372/374	<i>Organic chemistry II with lab</i>	4
CHEM 254	<i>Quantitative analysis lab</i>	2	PHYS 211	<i>Engineering physics I (incl. lab)</i>	4
CHEM 277/278	<i>Organic chemistry I with lab</i>	4	POLS 333	<i>American Political Culture (Am. Div.)</i>	3
MATH 275	<i>Calculus III</i>	3	PHIL 351	<i>Philosophy of science (Hum.)</i>	3
BIOL 115	<i>Cells and the evolution of life</i>	4	CHEM 491	<i>Research (elective)</i>	2
Semester total:			Semester total:		
16			16		

→ JUNIOR YEAR

FALL			SPRING		
★CHEM 305/307	<i>Physical chemistry I with lab</i>	4	◆CHEM 306/308	<i>Physical chemistry II with lab</i>	4
PHYS 212	<i>Engineering physics II (incl. lab)</i>	4	●CHEM 463	<i>Inorganic chemistry I (elective)</i>	3
★BIOL 380/382	<i>Intro to biochemistry with lab</i>	6	ISEM 301	<i>Integrated Seminar</i>	1
★BIOL 120	<i>Human anatomy (elective)</i>	4	★BIOL 121	<i>Human physiology (elective)</i>	4
Semester total:			Semester total:		
18			12		

→ SENIOR YEAR

FALL			SPRING		
CHEM 409	<i>Proseminar (Sen. Exp.)</i>	1	◆BIOL 476	<i>Biophysical chemistry</i>	3
FLEN 307	<i>The European Union (Int.)</i>	3	◆CHEM 454	<i>Instrumental analysis</i>	4
●CHEM 472	<i>Medicinal chemistry</i>	3	◆CHEM 418	<i>Environmental chemistry (elective)</i>	3
ECON 201	<i>Principles of economics I (Soc. Sci.)</i>	3	ECON 202	<i>Principles of economics II (Soc. Sci.)</i>	3
★CHEM 473	<i>Intermediate organic chemistry</i>	3			
Semester total:			Semester total:		
13			13		

→ NOTES

- This sample curriculum totals 120 credits—the number required to graduate.
- Courses listed in red are required.
- Courses listed in blue are required but have alternatives to choose from (e.g., ENGL 317 is one of any number of classes that will fulfill the “Communications” requirement).
- Courses labeled with a star (★) are only offered in the fall.
- Courses labeled with a diamond (◆) are only offered in the spring.
- Courses labeled with a circle (●) are offered in alternate years.