SAMPLE CURRICULUM FOR B.S. CHEMISTRY (PROFESSIONAL OPTION)

➔ FRESHMAN YEAR

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

➔ SOPHOMORE YEAR

FALL			SPRING		
★CHEM 253	*Quantitative analysis*	3	◆CHEM 372/374	*Organic chemistry II with lab*	4
CHEM 254	*Quantitative analysis lab*	2	PHYS 211	*Engineering physics I (incl. lab)*	4
CHEM 277/278	*Organic chemistry I with lab*	4	ECON 202	*Principles of economics II (Soc. Sci.)*	3
MATH 275	*Calculus III*	3	PHIL 351	*Philosophy of science (Hum.)*	3
ECON 201	*Principles of economics I (Soc. Sci.)*	3	MATH 310	*Ordinary differential equations (elective)*	3
	Semester total:	15		Semester total:	17

➔ JUNIOR YEAR

FALL			SPRING		
★CHEM 305/307	*Physical chemistry I with lab*	4	◆CHEM 306/308	*Physical chemistry II with lab*	4
PHYS 212	*Engineering physics II (incl. lab)*	4	FLEN 307	*The European Union (Int.)*	3
★BIOL 380	*Intro to biochemistry*	4	MATH 330	*Linear algebra (elective)*	3
ISEM 301	*Integrated Seminar*	1	CHEM 491	*Research*	2
			●CHEM 463	*Inorganic chemistry I*	3
	Semester total:	13		Semester total:	15

➔ SENIOR YEAR

FALL			SPRING		
CHEM 409	*Proseminar (Sen. Exp.)*	1	●CHEM 464/465	*Inorganic chemistry II with lab*	4
●CHEM 495	*Statistical thermodynamics*	3	◆CHEM 454	*Instrumental analysis*	4
★CHEM 473	*Intermediate organic chemistry*	3	POLS 333	*American Political Culture (Am. Div.)*	3
STAT 251	*Principles of statistics (elective)*	3	◆CHEM 509	*Advanced physical chemistry (elective)*	3
CHEM 491	*Research*	2			
GEOL 423	*Principles of geochemistry (elective)*	3			
	Semester total:	15		Semester total:	14

➔ NOTES

- This sample curriculum totals 121 credits (120 are 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.

Contact Dr. Brauns if you have any questions (ebrauns@uidaho.edu)