B.S. CHEMISTRY: DEGREE REQUIREMENTS

➔ GENERAL REQUIREMENTS (required for all majors)

- ☐ A total of 120 credits are required to graduate.
- ☐ At least 36 credits must be from 300 level courses or above.
- ☐ At least 30 credits from 300 level courses or above must be taken at UI.
- ☐ ENGL 102 (3 credits).
- ☐ COMM 101 (3 credits).
- ☐ Two "Humanistic and Artistic Ways of Knowing" courses from two disciplines (6 credits).
- ☐ Two "Social and Behavioral Ways of Knowing" courses from two disciplines (6 credits).
- ☐ One "International" course (3 credits).
- ☐ One "American Diversity" course (3 credits).
- ☐ One "Capstone Experience" course—for chemistry majors, this will be CHEM 409 (1 credit).
- ☐ The math and science courses required for the chemistry degree will satisfy the "Scientific and Mathematical Ways of Knowing" general education requirements.

➔ ALL CHEMISTRY MAJORS

☐ CHEM 111/111L (4 cr.) *General Chemistry I & Lab*	☐ CHEM 112/112L (5 cr.) *General Chemistry II & Lab*	☐ ★CHEM 253/254 (5 cr.) *Quantitative Analysis & Lab*	☐ CHEM 277/278 (4 cr.) *Organic Chemistry I & Lab*
☐ CHEM 372/374 (4 cr.) *Organic Chemistry II & Lab*	☐ ★CHEM 305/307 (4 cr.) *Physical Chemistry I & Lab*	☐ ◆CHEM 306/308 (4 cr.) *Physical Chemistry II & Lab*	☐ CHEM 409 (1 cr.) *Proseminar*
☐ MATH 170 (4 cr.) *Calculus I*	☐ MATH 175 (4 cr.) *Calculus II*	☐ MATH 275 (3 cr.) *Calculus III*	☐ CS 101 or higher (3 cr.) *Computer Science*
☐ PHYS 211/211L (4 cr.) *Engineering Physics I & Lab*	☐ PHYS 212/212L (4 cr.) **or** PHYS 213 (3 cr.) *Engineering Physics II & Lab* **or** *Engineering Physics III*		

➔ PROFESSIONAL OPTION ("all chemistry majors" plus the following)

☐ ◆CHEM 454 (4 cr.) *Instrumental Analysis*	☐ ★CHEM 463 (3 cr.) *Inorganic Chemistry I*	☐ ◆CHEM 464/465 (4 cr.) *Inorganic Chemistry II & Lab*	☐ CHEM 491 (2 cr.) *Research*
☐ ★BIOL 380 (4 cr.) *Biochemistry I*	☐ Two additional advanced chemistry courses (3 cr. each)		

➔ PRE-MED OPTION ("all chemistry majors" plus the following)

☐ ◆CHEM 454 (4 cr.) *Instrumental Analysis*	☐ ★CHEM 473 (3 cr.) *Intermediate Organic Chem.*	☐ BIOL 115/115L (4 cr.) *Cells and the Evolution of Life & Lab*
☐ ◆CHEM 472 (3 cr.) *Medicinal Chemistry*	☐ ★BIOL 380/382 (6 cr.) *Biochemistry I & Lab*	

➔ FORENSIC OPTION ("all chemistry majors" plus the following)

☐ ◆CHEM 454 (4 cr.) *Instrumental Analysis*	☐ STAT 251 (3 cr.) *Principles of Statistics*	☐ BIOL 115/115L (4 cr.) *Cells and the Evolution of Life & Lab*
☐ ★BIOL 250/255 (5 cr.) *General Microbiology & Lab*	☐ ★BIOL 380/382 (6 cr.) *Biochemistry I & Lab*	☐ ★BIOL 310/315 (4 cr.) **or** ◆GENE 314 (3 cr.) *Genetics & Lab* **or** *General Genetics*

➔ NOTES

- ☐ The requirements for the General Chemistry degree option include only those listed as "All chemistry majors".
- ☐ A list of "Humanistic and Artistic Ways of knowing", "Social and Behavioral Ways of Knowing", "International", and "American Diversity" courses can be found in the catalog or online (http://www.uidaho.edu/registrar).
- ☐ Plan accordingly. Not all courses are offered every semester; some courses are fall only, some are spring only, and some are only offered on alternating years.
  - Courses labeled with a star (★) are only offered in the fall.
  - Courses labeled with a diamond (◆) are only offered in the spring.
- ☐ The required number of credits to graduate is 120. Depending on which option you choose, the required courses listed above (excluding the General option) total between 96 and 103 credits. That means you have to make up the difference by taking additional "free electives". These can be *any course*, in *any discipline*, and at *any level*.
- ☐ As a general rule, plan on taking an *average* of 16 credits per semester. Doing so will keep you on track to graduate in 4 years.