B.S. CHEMISTRY: DEGREE REQUIREMENTS

CLEAR

➔ CORE REQUIREMENTS *(required for all majors)*

- ☐ A total of 128 credits are required to graduate (starting in the 2012-2013 academic year, the total credit requirement will be reduced to 120)
- ☐ At least 36 credits must be from 300 level courses or above
- ☐ At least 36 credits must be taken at UI
- ☐ ENGL 102 (3 cr.)
- ☐ One of the following: COMM 101 (2 cr.), ENGL 207, 208, 209, 313, 316, 317 (all 3 cr.), PHIL 102 (2 cr.)
- ☐ ISEM 101 (3 cr.)
- ☐ At least six credits from Humanities
- ☐ At least six credits from Social Science
- ☐ At least one International Course
- ☐ Additional Humanities, Social Science or Capstone courses to total 18 credits (at least 3 disciplines must be represented and at least one course must be 300 level or above)

➔ ALL CHEMISTRY MAJORS

☐ CHEM 111 (4 cr.) *Principles of chemistry I*	☐ CHEM 112 (5 cr.) *Principles of chemistry II*	☐ ★CHEM 253 (3 cr.) *Quantitative analysis*	☐ CHEM 254 (2 cr.) *Quantitative analysis lab*
☐ CHEM 277/278 (4 cr.) *Organic chemistry I and lab*	☐ ◆CHEM 372/374 (4 cr.) *Organic chemistry II and lab*	☐ ★CHEM 305/307 (4 cr.) *Physical chemistry I and lab*	☐ ◆CHEM 306/308 (4 cr.) *Physical chemistry II and 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 equivalent (3 cr.) *Intro to computer science*	☐ PHYS 211 (4 cr.) *Engineering physics I*	☐ PHYS 212 or 213 (4 cr.) *Engineering physics II or 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 and lab*	☐ CHEM 491 (2 cr.) *Research*
☐ ★MMBB 380 (4 cr.) *Intro to biochemistry*	☐ Two *additional* chemistry courses having CHEM 306 as a prerequisite (~3 cr. each)		

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

☐ ★CHEM 472 (3 cr.) *Medicinal chemistry*	☐ BIOL 115 (4 cr.) *Cells and the evolution of life*	☐ ★MMBB 380/382 (6 cr.) *Intro to biochemistry and lab*	☐ ★CHEM 473 (3 cr.) *Interm. organic chemistry*
One of the following:	☐ ◆CHEM 454 (4 cr.) *Instrumental analysis*	☐ ◆MMBB 476 (3 cr.) *Biophysical chemistry*	

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

☐ ◆CHEM 454 (4 cr.) *Instrumental analysis*	☐ BIOL 115 (4 cr.) *Cells and the evolution of life*	☐ ★BIOL 210 (4 cr.) *Genetics*	☐ ★MMBB 380/382 (6 cr.) *Intro to biochemistry and lab*
☐ ★MMBB 250/255 (5 cr.) *Microbiology and lab*	☐ STAT 251 (3 cr.) *Principles of statistics*	☐ ◆GEOL 405 (3 cr.) *Forensic geology*	

➔ NOTES

- The requirements for the General chemistry option include only those listed as "All chemistry majors".
- A course with two numbers separated by a slash indicates a lecture/lab combination. Note that some classes have labs associated with them, but that the lab does not have a separate course number (CHEM 111 is on example).
- A list of Humanities, Social Science, and International 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 128 (120 starting in the 2012-2013 academic year). Depending on which option you choose, the required courses listed above only total ~102 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.

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