B.S. CHEMISTRY: DEGREE REQUIREMENTS

**CORE 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 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.)
- ISEM 301 (1 cr.)
- At least six credits from two different Humanities disciplines
- At least six credits from two different Social Science disciplines
- At least one International Course
- At least one American Diversity Course
- One Senior Experience Course (for chemistry majors, this will be CHEM 409)

**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
- ISEM 101 (3 cr.)
- ISEM 301 (1 cr.)
- At least six credits from two different Humanities disciplines
- At least six credits from two different Social Science disciplines
- At least one International Course
- At least one American Diversity Course
- One Senior Experience Course (for chemistry majors, this will be CHEM 409)

**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
- ★CHEM 469 (4 cr.)
  - Inorganic chemistry II
- ★CHEM 495 (3 cr.)
  - Statistical thermodynamics
- ★CHEM 473 (3 cr.)
  - Inter. organic chemistry

**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
- ★BIOL 380/382 (6 cr.)
  - Intro to biochemistry and lab
- ★CHEM 473 (3 cr.)
  - Inter. organic chemistry

**FORENSIC OPTION** *(“all chemistry majors” plus the following)*
- ★CHEM 454 (4 cr.)
  - Instrumental analysis
- ★BIOL 380/382 (6 cr.)
  - Intro to biochemistry and lab
- ★BIOL 250/255 (5 cr.)
  - Microbiology and lab
- STAT 251 (3 cr.)
  - Principles of statistics
- GEOL 426 (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 one 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.
- Courses labeled with a circle (●) are offered in alternate years.
- The required number of credits to graduate is 120 (128 prior to 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.