

BA (Bachelor of Arts) in Biology

Coursework in Biological Sciences: (45 qtr hrs)

- BIOL 10xx Concepts series (with labs) (12 hrs)
- BIOL 2120 Cell Structure and Function (with lab) (5 hrs)
- BIOL 2510 General Genetics (with lab) (5 hrs)
- **Either** BIOL 2010 General Ecology **or** BIOL 2050 Conservation Biology (4 hrs)
- BIOL 2xxx and BIOL 3xxx Electives for a total for 45 qtr hrs (with no more than 5 hrs of BIOL 3991 Independent Study and/or BIOL 3950 Undergraduate Research)

BA Minor coursework requirements:

Either Chemistry Minor (20 hrs)

- CHEM 1010 General Chemistry (with lab)
- CHEM 2451 Organic Chemistry I (with lab)
- CHEM 2452 Organic Chemistry II (with lab)
- CHEM 2xxx or higher (at least 8 hrs)

Or ANY APPROVED MINOR PLUS ONE YEAR OF CHEMISTRY that includes:

- CHEM 1010 General Chemistry (with lab)
- CHEM 2451 Organic Chemistry I (with lab)
- CHEM 2xxx or higher (at least 4 hrs)

Math: (8 qtr hrs of mathematics/statistics)

- **Either** MATC 1101 Analytical Inquiry I (4 hrs)
 - **or** MATC 1200 Calculus for Business and Social Science (4 hrs)
 - **or** MATH 1951 Calculus I
- AND**
- **Either** PSYC 2300 Intro to Statistics (5 hrs)
 - **or** BIOL 2090 Biometry (4 hrs) **or** an approved business stats course

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BS Minor requirements: Chemistry Minor plus a second minor selected from any other Department or program.

Chemistry Minor coursework requirements: (minimum 20 hrs)

- CHEM 1010 General Chemistry (with lab)
- CHEM 245x Organic Chemistry I, II, and III (with labs)
- CHEM 2011 Analysis Equilibrium Systems (with lab)

NOTE: Many graduate programs (including medical schools) require at least 2 yrs of chemistry - one year of inorganic and one year of organic. To satisfy a year-long requirement for inorganic chemistry, students should also take CHEM 2130 Chem of the Elements. Some graduate programs also require or recommend biochemistry.

Math: (12 qtr hrs of calculus/statistics)

- **Either** MATH 195x Calculus I, II & III (12 hrs)
- **or** Calc I & II plus stats (BIOL 2090 Biometry, PSYC 2300 Intro to Statistics **or** an approved business stats course)
- **or** Computer Sciences I-II-III by approval

Physics: (15 qtr hrs)

- PHYS 111x Gen Physics (with labs) **or** PHYS 121x University Physics (with labs)

Additional requirements and notes for BA/BS in Biology

All Biology majors must satisfy [University Undergraduate Requirements](#)

Advanced Placement (AP) credit for Calculus AB or Calculus BC may count toward the MATH 195x series for either the BA or the BS according to the University approval policy (see the [University of Denver Undergraduate Bulletin](#) for details). Approval through the Department of Mathematics is required.

ONE YEAR OF CALCULUS is recommended by many graduate medical programs and is required for a few.

ONE YEAR OF CALCULUS is required for many graduate research programs in the basic sciences. Check the requirements for the school(s) to which you hope to make application before you decide about math options.

- The **BA degree** requires the major plus **ONE minor**.
- The **BS degree** requires the major plus **TWO minors** (Chem minor is earned by satisfying the chemistry requirement).
- A **BA-BA double major** does not require a minor.
- A **BS-BS double major** requires **ONE minor**. (Chem minor is earned by satisfying the chemistry requirement).

To declare a major or minor fill out and submit a Declaration of Major/Minor form to the Registrar's Office. This form is available in the Registrar's office (University Hall) and online <http://www.du.edu/registrar/forms/index.html>