MAJOR REQUIREMENTS

The Alternate Program in Biology allows students to integrate a comprehensive grounding in biological science with an understanding of one or more alternate disciplines. The primary academic adviser will be a member of biology staff, and the student will choose a consulting adviser from the appropriate alternate field. After discussion with both advisers, the student must submit a formal petition to the department with a rationale for the integrated course of study. After the petition is approved by the department, the alternate biology major may then be declared.

A. REQUIREMENTS:
- Biology 101 & 102
- Four semester lecture-laboratory courses in biology from at least three different clusters, the rational for which is articulated in the petition:
  (A) Genes, Genetics, and Genomes; Gene Regulation; Computational Systems Biology; Bioinformatics
  (B) Cellular Biology; Microbiology; Developmental Biology
  (C) Neurobiology and Physiology; Plant Physiology, Animal Behavior
  (D) Ecology, Leaves to Landscapes; Vascular Plant Diversity
- Two mathematics or computer science courses
- Chemistry 101 & 102
- Six to eight courses in the nonscience concentration:

B. RECOMMENDATIONS:
Students are strongly encouraged to consult with advisers, as specific courses may be preferred depending on disciplinary interests or career plans.

C. JUNIOR QUALIFYING EXAM (BIOLOGY)

D. THESIS 470 (BIOLOGY)

DIVISIONAL REQUIREMENTS

There are no divisional requirements for this major.

CREDIT AND DISTRIBUTION REQUIREMENTS

**Humanities:** HUM 110 or equivalent (3 units)

You may use courses in your major department to satisfy any one distribution requirement other than Group X. Group Requirements must be fulfilled by two units from the same subject.

**Group A** Literature, Philosophy, Religion, Arts

**Group B** History, Social Sciences, Psychology

**Group C** Natural Sciences

**Group D** Mathematics, Computer Science, Logic, Foreign Language, or Linguistics

**Group X** 2 units in any one department outside of the major department

30 units of coursework, 15 of which must be taken at Reed

6 quarters of Physical Education, 2 of which may come from Community Engagement programs

6 units completed during senior year

AM 5/2019