**ENVIRONMENTAL STUDIES CHEMISTRY**

**MAJOR REQUIREMENTS**

**A. ENVIRONMENTAL STUDIES CORE REQUIREMENTS:**
- Environmental History and Social Sciences (four units total). Any TWO from a-d*:
  - (a) Economics 201 and one ES-Economics course
  - (b) One introductory empirical Poli Sci course (220, 240, or 260) and one
    ES-Poli Sci course (except 280-298, 380-415)
  - (c) Two units of history, including one ES-History course
  - (d) Anthropology 211 or 201, and one ES-Anthropology course
- Mathematics and Natural Sciences courses (four and one-half to five units):
  - Biology 101 & 102
  - Chemistry 101 & 102
  - One upper-level ES-Mathematics & Natural Sciences course (numbered 200 or above)
- Environmental Studies interdisciplinary requirement (two units):
  - ES 200 (Intro to Environmental Studies Research)
  - ES 300 (Junior Seminar)
* ES-Chemistry majors may substitute ES 200 for one course in any ES-history and social science discipline (a-d). Note: ES 200 does not necessarily satisfy the prerequisite for upper division courses that require specific 200-level history and social science courses.

**B. HOME DEPARTMENT REQUIREMENTS:**
- Chemistry 201 & 202
- Chemistry 230
- Chemistry 311
- Two of: Chemistry 212, 315, 316, 332, 333, 391, 392, and/or Math 201
- Physics 101. After consultation with an ES faculty member, ES-chemistry majors may substitute Physics 102 for either Biology 101 or 102.
- Math 111
- Math 112, Math 141, or Computer Science 121

**C. JUNIOR QUALIFYING EXAM IN CHEMISTRY**

**D. JUNIOR QUALIFYING EXAM IN ENVIRONMENTAL STUDIES**

**E. THESIS 470 (ENVIRONMENTAL STUDIES)**

**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