BACHELOR OF SCIENCE (BSc) GRADUATION CHECKLIST

• Environmental Science Major
  • Applied Biology Concentration

Name: ____________________________ Student #: ___________

Graduation Requirements

To graduate from the Environmental Science Program (Major), you must have:

- □ Approval in the Applied Biology Concentration
- □ Completed all of the required courses (see back)
- □ At least 120 units
- □ At least 44 upper division units (within the 120 units)
- □ Completed the WQB requirements below
- □ CGPA and UDCGPA must be 2.00 or higher
- □ Met SFU’s minimum residency requirements below

WQB Requirements*

- 6 units of Writing (“W”) including at least 3 units taken at SFU
  - □ _______ 3 units of W
  - □ _______ 3 units of 300- or 400-level W within major
- 6 units of Quantitative “Q” □ _______ □ _______
- 18 units of Designated Breadth “B”
  - □ _______ 6 units of B-Soc (Social Science)
  - □ _______ 6 units of B-Hum (Humanities)
  - □ _______ 6 units of B-Sci (Science)
- □ _______ □ _______ 6 units of Undesignated Breadth

Notes: A minimum grade of C- is required to earn WQB unit.
A single course can count for W, Q, and B unit (however, only one B where two are possible).
See http://www.sfu.ca/ugcr.html for more details.
*Any required courses from this major may be used to fulfill these requirements.

Residency Requirements

At least half of the program’s total units and two thirds of the program’s total upper division units must be earned through SFU study.

Advising

Contact your academic advisor, Rebecca Ho. For advising hours and contact information, visit:
www.sfu.ca/fenv/advising.

Each student is responsible for ensuring that his or her academic choices meet the requirements for graduation. All requirements are outlined in the SFU Calendar. Advisors are available to provide guidance. However, the student has ultimate responsibility for compliance with and completion of the program and degree requirements and for observing regulations and deadlines.
Course requirements for the Environmental Science Major

**Applied Biology Concentration**

### LOWER DIVISION REQUIREMENTS

Students complete all of
- BISC 101-4-General Biology (B-Sci)
- BISC 102-4-General Biology (B-Sci)
- BISC 202-3-Genetics
- BISC 204-3-Introduction to Ecology
- CHEM 121-4-General Chemistry and Laboratory I (Q, B-Sci)
- CHEM 122-2-General Chemistry II (Q)
- CHEM 126-2-General Chemistry Laboratory II (Q)
- CHEM 215-4-Introduction to Analytical Chemistry (Q)
- EVSC 100-3-Introduction to Environmental Science (B-Sci)
- EVSC 201W-4-Environmental Science in Practice (W)
- GEOG 111-3-Earth Systems (B-Sci)
- REM 100-3-Global Change (B-Soc)

And one of
- MATH 151-3-Calculus I (Q)
- MATH 154-3-Calculus I for the Biological Sciences (Q)

And one of
- MATH 152-3-Calculus II (Q)
- MATH 155-3-Calculus II for the Biological Sciences (Q)

And one of
- PHYS 101-3-Physics for the Life Sciences I (Q, B-Sci)
- PHYS 120-3-Mechanics and Modern Physics (Q, B-Sci)

And one of
- PHYS 102-3-Physics for the Life Sciences II (Q, B-Sci)
- PHYS 121-3-Optics, Electricity and Magnetism (Q, B-Sci)

And one of
- STAT 201-3-Statistics for the Life Sciences (Q)
- STAT 270-3-Introduction to Probability and Statistics (Q)

### UPPER DIVISION REQUIREMENTS

Students complete all of
- BISC 316-4-Vertebrate Biology
- BISC 337-4-Plant Biology
- EVSC 300-3-Seminar in Environmental Science
- EVSC 305-3-Methods in Environmental Science
- EVSC 400-4-Environmental Science Capstone
- GEOG 316-4-Global Biogeochemical and Water Cycles (Q)
- REM 311-3-Applied Ecology and Sustainable Environments (Q)
- REM 445-3-Environmental Risk Assessment

And one of
- STAT 302-3-Analysis of Experimental and Observational Data (Q)
- STAT 305-3-Introduction to Biostatistical Methods for Health Sciences (Q)

And two of
- ENV 319-3-Environmental Law
- ENV 320W-3-Ethics and the Environment (W)
- GEOG 389W-4-Nature and Society (W)
- REM 321-4-Ecological Economics (B-Soc)
- REM 356W-3-Institutional Arrangements for Sustainable Environmental Management (W)

And two of
- BISC 300-3-Evolution
- BISC 306-4-Invertebrate Biology
- BISC 309-3-Conservation Biology
- BISC 326-3-Biology of Algae and Fungi
- BISC 366-3-Plant Physiology
- BISC 407-3-Population Dynamics
- BISC 414-3-Limnology
- BISC 420-3-Community and Macroecology
- REM 412-3-Environmental Modeling (Q)
- REM 471-3-Forest Ecosystem Management
- STAT 403-3-Intermediate Sampling and Experimental Design (Q)

### HONOURS REQUIREMENTS

In addition to the requirements above, to complete the Environmental Science Program (Honours) Applied Biology Concentration, you must:

Complete all of:
- BISC 490-5-Research Design
- BISC 491-5-Research Techniques
- BISC 492W-5-Research Reporting (W)
  or EVSC 490-4-Environmental Science Thesis

To graduate, you must have:
- Approval in the Honours Program
- Maintain a 3.00 CGPA and UDCGPA
- At least 120 units
- At least 60 upper division units (within the 120 units)
- Satisfied the WQB requirements
- Met SFU’s minimum residency requirements