BACHELOR OF SCIENCE (BSc) GRADUATION CHECKLIST
Environmental Science Major

Water Science Concentration

Name: ____________________________ Student #: ____________

Graduation Requirements

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

☐ Approval in the Environmetrics 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 Sara Bucci (evscadv@sfu.ca). 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
Water Science Concentration

LOWER DIVISION REQUIREMENTS

Students complete all of:

- BISC 101-4-General Biology (B-Sci)
- BISC 102-4-General Biology (B-Sci)
- 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)
- EASC 101-3-Dynamic Earth (B-Sci)
- EVSC 100-3-Introduction to Environmental Science (B-Sci)
- EVSC 201W-4-Environmental Science in Practice (W)
- GEOG 111-3-Earth Systems (B-Sci)
- GEOG 213-3-Introduction to Geomorphology (Q, B-Sci)
- GEOG 214-3-Weather and Climate (Q)

And one of:

- BISC 204-3-Introduction to Ecology
- GEOG 215-3-Biogeography

And one of:

- GEOG 253-3-Introduction to Remote Sensing (Q, B-Sci)
- GEOG 255-3-Geographical Information Science I (Q)

And one of:

- MATH 150-4-Calculus I with Review (Q)
- 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 414-3-Limnology
- EASC 304-3-Hydrogeology (Q)
- EASC 315W-3-Geochemistry of Natural Waters (W)
- EVSC 300-3-Seminar in Environmental Science
- EVSC 305-3-Methods in Environmental Science
- EVSC 400-4-Environmental Science Capstone
- GEOG 314-4-The Climate System (Q)
- GEOG 317-4-Soil Science
- GEOG 411-4-Advanced Hydrology (Q)
- GEOG 412W-4-Glacial Processes and Environments (W)
- GEOG 414-4-Climate Change (Q)
- GEOG 416W-4-River Geomorphology (W)
- GEOG 417W-4-Advanced Soil Science (W)
- REM 370-4-Global Resource Issues in Oceanography
- REM 375-3-Climate Systems and Conservation of Coastal BC
- REM 412-3-Environmental Modeling (Q)
- REM 423-4-Research Methods in Fisheries Assessment
- REM 445-3-Environmental Risk Assessment

And two of:

- GEOG 313-4-River Geomorphology (Q)
- GEOG 316-4-Global Biogeochemical and Water Cycles (Q)

And three of, with at least one from the 400-division:

- EASC 314-3-Principles of Glaciology (Q)
- EASC 405-3-Water, Environment, and Climate Change
- EASC 410-3-Groundwater Contamination and Transport (Q)
- EASC 416-3-Field Techniques in Hydrogeology (Q)
- GEOG 310-4-Physical Geography Field Course
- GEOG 313-4-The Climate System (Q)
- GEOG 314-4-Advanced Hydrology (Q)
- GEOG 411-3-Field Techniques in Hydrogeology (Q)
- GEOG 412W-4-Glacial Processes and Environments (W)
- GEOG 414-4-Climate Change (Q)
- REM 370-4-Global Resource Issues in Oceanography
- REM 375-3-Climate Systems and Conservation of Coastal BC
- REM 412-3-Environmental Modeling (Q)
- REM 423-4-Research Methods in Fisheries Assessment
- REM 445-3-Environmental Risk Assessment

HONOURS REQUIREMENTS

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

Complete:

- EVSC 490-4-Environment 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)
- Satisfy the WQB requirements
- Met SFU’s minimum residency requirements