BACHELOR OF SCIENCE (BSc) GRADUATION CHECKLIST

Environmental Science Major

Environmetrics Concentration

Name: ________________________     Student #: __________________

Required Units

To graduate from the Environmental Science Program (Major)

□ approval in the Environmetrics Concentration (see back)
□ at least 120 units
□ at least 44 upper division units (within the 120 units)

Residency Requirements and Transfer Units: The University’s residency requirement stipulates that, in most cases, total transfer and course challenge units may not exceed 60 units, and may not include more than 15 units as upper division work.

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.

GPA Requirements

To graduate from the Environmental Science Program (Major)

□ CGPA must be 2.00 or higher and UDCGPA must be 2.00 or higher

Advising

Contact your academic advisor, Sandy Goettler at envadv@sfu.ca or 778-782-9396 or in TASC2 8800 during drop-in advising hours as posted on www.fenv.sfu.ca/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

**Environmetrics Concentration**

<table>
<thead>
<tr>
<th>Lower division courses common to all concentrations:</th>
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<tbody>
<tr>
<td>BISC 101-4</td>
</tr>
<tr>
<td>CHEM 121-4</td>
</tr>
<tr>
<td>EVSC 100-3</td>
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<tr>
<td>MATH 150-4 or 151-3 or 154-3</td>
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<tr>
<td>MATH 232-3</td>
</tr>
<tr>
<td>PHYS 101-3 or 120-3</td>
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</tbody>
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## 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]
- EVSC 100-3-Introduction to Environmental Science [B-Sci]
- EVSC 205-3-Methods in Environmental Science
- GEOG 111-3-Earth Systems [B-Sci]
- MATH 232-3-Applied Linear Algebra [Q]
- MATH 251-3-Calculus III [Q]
- REM 100-3-Global Change [B-Soc]
- STAT 270-3-Introduction to Probability and Statistics [Q]
- STAT 285-3-Intermediate Probability and Statistics [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]

## UPPER DIVISION REQUIREMENTS

Students complete all of
- EVSC 399-1-Environmental Science Seminar I
- EVSC 499-1-Environmental Science Seminar II
- STAT 350-3-Linear Models in Applied Statistics [Q]
- STAT 410-3-Statistical Analysis of Sample Surveys [Q]
- STAT 430-3-Statistical Design and Analysis of Experiments [Q]

And two of
- ENV 319-3-Environmental Law*
- ENV 320W-3-Ethics and the Environment [W]*
- REM 321-4-Ecological Economics*

And one of
- STAT 340-3-Introduction to Statistical Computing and Exploratory Data Analysis [Q]
- STAT 445-3-Applied Multivariate Analysis [Q]
- STAT 475-3-Applied Discrete Data Analysis [Q]
- STAT 485-3-Applied Time Series Analysis [Q]

And one of **
- CMNS 347-4-Communication in Conflict and Intervention
- ENV 319-3-Environmental Law*
- ENV 320W-3-Ethics and the Environment [W]*
- FNST 301-3-Issues in Applied First Nations Studies Research
- FNST 332-3-Ethnobotany of British Columbia First Nations [B-Sci]
- FNST 443W-4-Aboriginal Peoples, History and the Law [W]
- GEOG 322-4-World Resources
- GEOG 325-4-Geographies of Consumption
- GEOG 363-4-Urban Planning and Policy
- GEOG 381-4-Political Geography
- GEOG 39W-4-Nature and Society [W]
- REM 321-4-Ecological Economics*
- REM 356-3-Institutional Arrangements for Sustainable Environmental Management
- SA 326-4-Ecology and Social Thought [S]
- SA 371-4-The Environment and Society [SA]

Plus 16 upper division units from the Faculty of Environment or the Faculty of Science with approval from the Director.

* Note: the following courses are listed under two requirements: ENV 319-3, ENV 320W-3, REM 321-4. However, each course can only fulfill one requirement.

** Note: occasionally 300 or 400 division Special Topics courses may be offered that can fulfill this requirement; check the EVSC website for information: [http://www.sfu.ca/evsc](http://www.sfu.ca/evsc)