COMBINED MAJOR IN SCIENCE
http://www.cms.science.ubc.ca/home
Life Sciences (LSC), Earth and Environmental Sciences (EES), Mathematical Sciences – mathematics (MATH)

First Year

- **MATH 100** (or equiv.)
- **MATH 101** (or equiv.)
- **BIOL 112**
- **BIOL 121 or 121 + BIOL140**
- **PHYS 101 or 107 or 117 (EOSC 114 recom.)**
- **CHEM 121 (or 111)**
- **Communication (See page 2)**

Second Year

- **STAT 200** (or equiv.)
- **BIOL 200**
- **EESE**
- **MATH 200**
- **MATH 221**

*EESE Elective: students pursuing the LSC package will automatically fulfill this requirement by virtue of completing their 1st year BIOL courses.

Third and Fourth Year – See below for specific information on packages

Third and Fourth Years

- **SCIE 300**
- **LSC pkg Course 1**
- **EOSC 340**
- **EOSC 326, 355, or 372**
- **Arts** (See page 2)

- **LSC pkg Course 2**
- **MATH pkg Course 1**
- **MATH pkg Course 2**
- **Arts** (See page 2)

- **Generalist req. (see page 2)**
- **LSC pkg Course 3**
- **EESE pkg course**
- **MATH pkg Course 3**

- **Lab req. (See page 2)**
- ****
- ****

1. **LIFE SCIENCES (LSC) CMS PKG COURSES:**
   - Courses at the 300- or 400-level in CAPS, BIOC, BIOL (except: BIOL300, 344, 345, 346, 448), MRNE, MEDG, PCTH; as well as GEOB 307, 407, EOSC 470, 471, 474, 475, 478, PSYC 360-471 and 460 - 472.

2. **EARTH AND ENVIRONMENTAL SCIENCES (EES) CMS PKG COURSES:**
   - Specific prerequisites required from the EES electives

3. **MATHEMATICAL SCIENCES – MATHEMATICS (MATH) CMS PKG COURSES:**
   - MATH courses at the 300- or 400-level; recommended: MATH 302, 307, 317, 340, 360
   - ! Some courses may have additional pre-requisites!
   - Pay particular attention to the credit-exclusion list (UBC calendar)
LOWER LEVEL REQUIREMENTS FOR BSC:
http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1465

CMS LAB REQUIREMENT
Must take 2 of the following:
- **CHEM 315** (1 cr) - Prerequisites: one of CHEM 233+235, CHEM 205, CHEM 208, CHEM 211
- **EOSC 442** (1 cr) - Prerequisites: EOSC 340, *and one of* CPSC 103, CPSC 110, CPSC111, CPSC 301, EOSC 211, PHYS 210, MATH 210, *and one of* STAT 200, STAT241, STAT251, BIOL300
- **BIOL 342** (2 cr) - Prerequisite: BIOL 121, 140
- **PHYS 309** (3 cr) - Prerequisite: PHYS 219 and PHYS 229 (PHYS 219 has multiple prerequisites)

CMS CORE COURSES:
- **MATH 100/101** (or equivalent)
- **STAT 200** (or STAT 241 or STAT 251 or BIOL 300)
- **SCIE 300** (Communicating Science)
- **Computing Requirement: one of**: CPSC 100, CPSC 103, CPSC 110 (or 111), CPSC 301, EOSC 211, MATH 210, PHYS 210
- **Generalist Requirement: one** (at least 3 cr) from: any CHEM 200-level or higher (except: CHEM300; ASTR 200; PHYS 200, 305, 330, 333.

CMS GRADUATION CHECKLIST TABLE:
Review Upper Level B.Sc. Requirements:

<table>
<thead>
<tr>
<th>CREDIT TOTALS</th>
<th>Completed</th>
<th>in Progress</th>
<th>Total</th>
<th>Required</th>
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</thead>
<tbody>
<tr>
<td><strong>Total Credits</strong>: includes all UBC courses, transfer</td>
<td></td>
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<td>120</td>
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<td>credits &amp; advance credits. DO NOT count paired courses,</td>
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<td>COOP credits, or courses “not for credit in the Faculty</td>
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<td>of Science”.</td>
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<tr>
<td><strong>Science Credits</strong>: includes all required &amp; elective</td>
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<td>72</td>
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<td>Science courses at all year levels.</td>
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<td><strong>Communication Credits</strong>: six credits from ENGL 100,</td>
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<td>110, 111, 112 (recommended), 120, 121; SCIE 113; SCIE</td>
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<td>300 or CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150;</td>
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<td>their equivalents</td>
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<td><strong>Arts Credits</strong>: includes arts courses at all year</td>
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<td>12</td>
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<td>levels.</td>
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<tr>
<td><strong>Upper-Level Credits</strong>: includes all courses at the</td>
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<td>48</td>
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<td>300-level and 400-level in any field (Arts, Science,</td>
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<td>and a maximum of 18 “Other” cr.).</td>
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<tr>
<td><strong>Upper-Level Science Credits</strong>: includes all Science</td>
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<td>32 – 38*</td>
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<td>courses at the 300-level and 400-level required for</td>
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<td>program.</td>
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* Number of credits will depend on selection of lab and generalist requirements.

Review CMS information in Calendar:
http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1474