COMBINED MAJOR IN SCIENCE
http://www.cms.science.ubc.ca/home
Earth and Environmental Sciences (EES), Statistics (STAT),
Physics (PHYS)

First and Second Year

<table>
<thead>
<tr>
<th>First Year</th>
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</thead>
<tbody>
<tr>
<td>☐ MATH 100 (or equiv)</td>
<td>☐ CHEM 121 (or CHEM 111)</td>
<td>☐ PHYS 101 (or PHYS 107)</td>
<td>☐ Communication (See page 2)</td>
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<tr>
<td>☐ MATH 101 (or equiv)</td>
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<tr>
<td>☐ One of STAT 200, 241, 251, BIOL 300</td>
<td>☐ PHYS 200</td>
<td>☐ One of MATH 200, 226</td>
<td>☐ Communication (See page 2)</td>
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<tr>
<td></td>
<td>☐ PHYS 219 / PHYS 229 Recom.)</td>
<td>☐ One of MATH 152, 221, 223</td>
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<tr>
<td>☐ Computing Requirement (see page 2)</td>
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Second Year

| ☐ One of STAT 200, 241, 251, BIOL 300 | ☐ PHYS 200 | ☐ One of MATH 200, 226 | ☐ Arts (See page 2) |
| ☐ Computing Requirement (see page 2) | | | |

*EES Elective: one of ATSC 201, BIOL 111, BIOL 112, BIOL 121, GEOB 103, 200 or EOSC 110 and 111

Students who do not have credit for Biology 11 or 12 take 3 credits of 100-level BIOL (usually BIOL 111).

Note: MATH 215 (or 225); PHYS 219, 229, recommended.

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

| ☐ SCIE 300 | ☐ PHYS 301, 304, or 333 | ☐ PHYS pkg course | ☐ Arts (See page 2) |
| ☐ Generalist Requirement (see page 2) | ☐ PHYS pkg course | ☐ Lab Requirement (see page 2) | |
| ☐ EES pkg course | ☐ Lab Requirement (see page 2) | ☐ Arts pkg course | |

CMS PACKAGES:

1. EARTH AND ENVIRONMENTAL SCIENCES (EES) CMS PACKAGE:
   - EOSC 340 (3)
   - 3 credits from EOSC 326*, 355, 372
   - 3 credits from Earth and Environmental Science courses 300- or 400-level: ATSC, ENVR, GEOB (except for GEOB 307, 407), EOSC (except for EOSC 310, 311, 312, 314, 315, 371, 470, 471, 474, 477, 478).
   Recommended: another one of EOSC 324, 326*, 329, 330, 355, 372, 373 or GEOB 300*

   Specific prerequisites required from the EES electives

2. STATISTICS (STAT) CMS PACKAGE:
   - STAT 300 (3C)
   - STAT 302 or MATH 302 (3C)
   - 3 credits from STAT 306 or 344

3. PHYSICS (PHYS) CMS PACKAGE:
   - 3 credits of PHYS 301*, 304*, 333
   - 6 credits PHYS or ASTR courses 300- or 400-level

*Other Prerequisites in addition to 1st/2nd year Core.
LOWER LEVEL REQUIREMENTS:
http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1465

LAB REQUIREMENT:
Must take 2 of the following:
- **CHEM 315** (1 cr) - Prerequisites: CHEM 233, 235, 205
- **EOSC 442** (1 cr) - Prerequisites: EOSC 340 and one of (CPSC 110, CPSC111, CPSC 301, EOSC 211, PHYS 210, MATH 210), and one of STAT 200, STAT241, BIOL300)
- **BIOL 342** (2 cr) - Prerequisite: BIOL 121, 140. (BIOL112/BIOL200 recommended)
- **PHYS 309** (3 cr) - Prerequisite: PHYS 209

CORE COURSES:
- **MATH 100/101** (or equivalent)
- **STAT 200** - can be replaced with STAT 241 or BIOL 300 in program
  
  *Note: BIOL 300 will not count as a life science elective.
- **SCIE 300** (Communicating Science)
- **Computing Requirement**: one of: CPSC 110 (or 111), CPSC 301, EOSC 211, MATH 210, PHYS 210
- **Generalist Requirement**: One course (at least 3 cr) from:
  - Chemistry: CHEM 200-level
  - Life Science: BIOL 121, 343, 345, 346, 438

GRADUATION CHECKLIST TABLE FOR CMS

<table>
<thead>
<tr>
<th>CREDIT TOTALS</th>
<th>Completed</th>
<th>in Progress</th>
<th>Total</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Credits</strong>: includes all UBC courses, transfer credits &amp; advance credits. DO NOT count paired courses, COOP credits, or courses “not for credit in the Faculty of Science”.</td>
<td></td>
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<td>120</td>
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<tr>
<td><strong>Science Credits</strong>: includes all required &amp; elective Science courses at all year levels.</td>
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<td>72</td>
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<tr>
<td><strong>Communication Credits</strong>: six credits from ENGL 100, 110, 111, 112 (recommended), 120, 121; SCIE 113; SCIE 300 or CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150; their equivalents</td>
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<td>6</td>
</tr>
<tr>
<td><strong>Arts Credits</strong>: includes arts courses at all year levels.</td>
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<td>12</td>
</tr>
<tr>
<td><strong>Upper-Level Credits</strong>: includes all courses at the 300-level and 400-level in any field (Arts, Science, and a maximum of 18 “Other” cr.).</td>
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<td>48</td>
</tr>
<tr>
<td><strong>Upper-Level Science Credits</strong>: includes all Science courses at the 300-level and 400-level, both required and elective credits for program.</td>
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<td>32-38*</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