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

First Year
- MATH 100 (or equiv.)
- CHEM 121 or 120+115 or CHEM 111 or 110+115
- EES* elective
- PHYS 101 or 107 or 117 or 131
- Communication (See page 2)

Second Year
- STAT 200 (or equiv.)
- MATH 152 or 221 OR 223
- MATH 217 (or 200)
- PHYS 200
- Arts (See page 2)

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

Third and Fourth Year – See below for specific information on packages
- SCIE 300
- STAT 300
- EOSC 340
- PHYS pkg Course 1 (3cr)
- Arts (See page 2)

Third and Fourth Years
- STAT 302 or MATH 302
- STAT 306 or STAT 344
- EES pkg course
- PHAS pkg Course 1 (3 cr)
- Arts (See page 2)

1. MATHEMATICAL SCIENCES (MASC) - 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

2. EARTH AND ENVIRONMENTAL SCIENCES (EES) CMS PKG COURSES:
   Recommended: another one of EOSC 324, 326*, 329, 330, 355, 372, 373, or GEOB 300*
   Specific prerequisites required from the EES electives

3. PHYSICS (PHYS) CMS PKG COURSES:
   - All PHYS courses at the 300- or 400-level, except PHYS 348

4. PHYSICS & ASTRONOMY (PHAS) CMS PKG COURSES:
   - All PHYS and ASTR courses at the 300- or 400-level, except PHYS 348
   ASTR 300, 333, 403, 406, 407 (*have additional pre-requisites)
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 or 355 (1 cr) - Prerequisites: one of CHEM 233+235, CHEM 203 or CHEM 223 + 225, CHEM 205, CHEM 208, CHEM 211 or CHEM 210+215.
- 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). Please note that this course does not count as a PHYS package course unless you take two other lab courses to fulfill the lab requirement.

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: only required for students who entered the CMS program prior to 2019S. These students take one (at least 3 cr) of CHEM 200 or higher (except: CHEM 300), or BIOL 121, 343, 345, 346, 438

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>
</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>
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<td><strong>120</strong></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><strong>72</strong></td>
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<tr>
<td><strong>Communication Credits</strong>: six credits from ENGL 100, 110, 111, 120, 121; SCIE 113 (recommended); CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150 (recommended); their equivalents; SCIE 300 is required for the CMS program</td>
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<tr>
<td><strong>Arts Credits</strong>: includes arts courses at all year levels.</td>
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<td><strong>12</strong></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><strong>48</strong></td>
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<tr>
<td><strong>Upper-Level Science Credits</strong>: includes all Science courses at the 300-level and 400-level required for program.</td>
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<td><strong>32 – 38</strong></td>
</tr>
</tbody>
</table>

* 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