COMBINED MAJOR IN SCIENCE
http://www.cms.science.ubc.ca/home
Mathematical sciences – Interface (any option, A - D), Earth and Environmental Sciences (EES), Physics & Astronomy – Astronomy (ASTR)

First Year
- MATH 100 (or equiv.)
- MATH 101 (or equiv.)
- CPSC 110 or CPSC 111 (Interface A, C, D)
- CPSC 121 (Interface C only)
- EES* elective
- CHEM 121 or 120+115 or CHEM 111 or 110+115
- PHYS 101 or 107 or 117 or 131
- PHYS 118 + 119 or 108+109
- Communication (See page 2)

Second Year
- STAT 200 (or equiv.)
- CPSC 210 (Interface C only)
- MATH 215
- MATH 217 (or 200 + 317)
- MATH 221
- PHYS 200
- PHYS 203
- Arts (See page 2)

Third and Fourth Year
- SCIE 300 (PHYS 219 + 229 recom.)
- Interface pkg Course 1
- Interface pkg Course 2
- Interface pkg Course 3
- Lab req. (See page 2)

Third and Fourth Years
- EOSC 340
- EOSC 326, or 355, or 372
- EES pkg course
- Lab req. (See page 2)

Third and Fourth Years
- PHYS 216
- PHYS pkg Course 1 (3 cr)
- PHYS pkg Course 2 (3 cr)

Third and Fourth Years
- Arts (See page 2)
- Arts (See page 2)

1. MATHEMATICAL SCIENCES (MASC) – INTERFACES A – D CMS PKG COURSES:
Select one of the following Interface options:
- Interface A – Prerequisites: CPSC 110 or 111, MATH 200, 221
  - Two of: MATH/STAT 302, MATH 303, STAT 305
  - One of: CPSC 302, CPSC 303
- Interface B – Prerequisites: MATH 200, 221
  - All of: MATH/STAT 302, MATH 303, STAT 305
- Interface C – Prerequisites: CPSC 110 or 111, 121, 210 or, 221, MATH 200, 221
  - All of: CPSC 340, STAT 306, STAT 406
- Interface D – Prerequisites: CPSC 110 or 111, 121, 210 or, 221, MATH 200, 221
  - All of: CPSC 302, 402 (additional pre-requisites – check!), MATH 307

2. EARTH AND ENVIRONMENTAL SCIENCES (EES) CMS PKG COURSES:
  Recommended: another one of EOSC 324, 326*, 329, 330, 355, 372, 373, or GEOS 300*

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

4. ASTRONOMY (ASTR) CMS PKG COURSES:
• ASTR 300, 333, 403, 406, 407

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, CPSC 111, CPSC 301, EOSC 211, PHYS 210, MATH 210, and one of STAT 200, STAT 241, STAT 251, BIOL 300
• BIOL 342 (2 cr) - Prerequisite: BIOL 121, 140/180
• PHYS 309 (3 cr) - Prerequisite: PHYS 219 and PHYS 229 (PHYS 219 has multiple prerequisites). 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, 103, 110, 111, 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, GEOS 307

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>Total Credits: includes all UBC courses, transf 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>Science Credits: includes all required &amp; elective Science courses at all year levels.</td>
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<td>72</td>
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<td>Communication Credits: 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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<td>6</td>
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<tr>
<td>Arts Credits: includes arts courses at all year levels.</td>
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<td>12</td>
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<tr>
<td>Upper-Level Credits: 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>
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<tr>
<td>Upper-Level Science Credits: includes all Science courses at the 300-level and 400-level required for program.</td>
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<td></td>
<td>32 – 38*</td>
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</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