COMBINED MAJOR IN SCIENCE
http://www.cms.science.ubc.ca/home
Chemistry (CHEM), Life Sciences (LSC), Mathematical Sciences - MATH

| First Year | MATH 100 (or equiv.) MATH 101 (or equiv.) | CHEM 121 or 120+115 or CHEM 111 or 110+115 $\square$ CHEM 123 or 130+135 | BIOL 112 BIOL 121 BIOL 140/ 180 | $\qquad$ $\square$ PHYS 101 or 107 or 117 or 131 |  <br> Communication (See page 2) $\square$ <br> Communication (See page 2) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Second <br> Year | STAT 200 (or equiv.) Computing req. (see page 2) | CHEM 233 +235 or CHEM 203 or 223+225 $\square$ CHEM 205 or 208 or 213 or 211 or $210+215$ | BIOL 200 (Relevant BIOL 2XX recom.) | MATH 200 <br> MATH 221 | (MATH 215 Recom) Arts (See page 2) |

*EES Elective: one of ATSC 201, BIOL 111, BIOL 112, BIOL 121, GEOB/ GEOS 103, 200 or EOSC
110 and 111 (BIOL 111 appropriate for students who don't have Biology 11 or 12)
Third and Fourth Year - See below for specific information on packages


1. CHEMISTRY (CHEM) CMS PKG COURSES:

- 6 credits CHEM courses 300- or 400-level (except: CHEM 300, CHEM 348)

2. LIFE SCIENCES (LSC) CMS PKG COURSES:

- Courses at the 300- or 400-level in CAPS, BIOC, BIOL (except: BIOL300, 344, 345, 346, 448), MICB, MRNE, MEDG, PCTH; as well as GEOS 307, 407, EOSC 470, 471, 474, 475, 478, PSYC 360371 and 460-472.

3. 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)


## 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, 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 or 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, 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 ) from ASTR 200, PHYS 200, 305, 330, 333, EOSC 340, 326, 477, 453, 354, 329


## CMS GRADUATION CHECKLIST TABLE:

Review Upper Level B.Sc. Requirements:
http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1466

| CREDIT TOTALS | Completed | in Progress | Total | Required |
| :--- | :--- | :--- | :---: | :---: |
| Total Credits: includes all UBC courses, transfer <br> credits \& advance credits. DO NOT count paired <br> courses, COOP credits, or courses "not for credit in <br> the Faculty of Science". |  |  |  | 120 |
| Science Credits: includes all required \& elective <br> Science courses at all year levels. |  |  |  | $\mathbf{7 2}$ |
| Communication Credits: six credits from ENGL 100, <br> 110, 111, 120, 121; SCIE 113 (recommended); <br> CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150 <br> (recommended); their equivalents; SCIE 300 is <br> required for the CMS program |  |  |  | $\mathbf{6}$ |
| Arts Credits: includes arts courses at all year levels. |  |  | $\mathbf{1 2}$ |  |
| Upper-Level Credits: includes all courses at the <br> 300-level and 400-level in any field (Arts, Science, <br> and a maximum of 18 "Other" cr.). |  |  | $\mathbf{4 8}$ |  |
| Upper-Level Science Credits: includes all Science <br> courses at the 300-level and 400-level required for <br> program. |  |  |  |  |

* 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

