COMBINED MAJOR IN SCIENCE
http://www.cms.science.ubc.ca/home
Chemistry (CHEM), Life Sciences (LSC), Mathematical Sciences - computer science (CPSC) ${ }^{1}$

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

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

| Third and | $\square$ SCIE 300 | $\square$ CHEM 341 | LSC pkg Course 3 | $\square$ CPSC 221 | Arts (See page 2) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fourth Years |  | CHEM pkg Course 1 | LSC pkg Course 2 | CPSC pkg course 1 | Arts (See page 2) |
|  | Generalist req. (see page 2) | CHEM pkg Course 2 $\square$ Lab req. <br> (See page 2) | LSC pkg Course 1 | CPSC pkg course 2 $\square$ |  |

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, MICB, PCTH; as well as GEOS 307, 407, EOSC 470, 471, 474, 475, 478, PSYC 360-371 and 460-472.


## 3. MATHEMATICAL SCIENCES - COMPUTER SCIENCE (CPSC) CMS PKG COURSES:

- 6 credits of CPSC courses 300- or 400-level
- CPSC 302 and 303 have additional prerequisites
- Make sure you fulfill the BSc requirements (e.g. you need at least 30 credits of upper-level Science)

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## LOWER LEVEL REQUIREMENTS FOR BSC:

## CMS LAB REQUIREMENT

Must take 2 of the following:

- CHEM 315 or 315 ( 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). 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: students who pursue the CPSC package automatically fulfill their computing requirement by virtue of completing their CPSC pre-requisites
- Generalist Requirement: only required for students who entered the CMS program prior to 2019S. These students take one (at least 3 cr) from EOSC 340, 326, 477, 453, 354, 329, GEOS 400; ASTR 200, PHYS 200, 305, 330, 333.


## 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". |  |  |  | $\mathbf{1 2 0}$ |
| 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


[^0]:    ${ }^{1}$ All students planning to pursue the CPSC package should contact the CMS advisor/director as soon as possible.

