> COMBINED MAJOR IN SCIENCE http://www.cms.science.ubc.ca/home
> Earth and Environmental Sciences (EES), Life Sciences (LSC), Mathematical Sciences - Computer science (CPSC) ${ }^{1}$

| 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 | CPSC 110 or 111 CPSC 121 | BIOL 112 $\square$ BIOL 121 BIOL 140/ 180 |  <br> Communication (See page 2) $\square$ <br> Communication (See page 2) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Second Year | STAT 200 (or equiv.) $\square$ PHYS 101 or 107 or 117 or 131 | CPSC 210 or 211 $\square$ (CPSC 213 recom.) | EES* <br> elective | BIOL 200 <br> (relevant <br> 200-level BIOL) | Arts <br> (See page 2) Arts <br> (See page 2) |

*EES Elective: students in the EES/LSC/CPSC curriculum automatically fulfill this requirement by virtue of completing their $1^{\text {st }}$ year BIOL courses

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

| Third and Fourth Years | SCIE 300 | $\square$ CPSC 221 | $\square$ EOSC 340 | LSC pkg Course 1 | Arts <br> (See page 2) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\square$ | CPSC pkg Course 1 | $\square$ EOSC 326, or 355 , or 372 | LSC pkg Course 2 | Arts (See page 2) |
|  | Generalist req. (see page 2) | CPSC pkg Course 2 | EES pkg course | LSC pkg Course 3 |  |
|  | $\square \ldots$ | Lab req. <br> (See page 2) |  | $\square$ |  |

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

- 6 credits of CPSC courses 300 - or 400 -level.

Recommended: 302*, 303*, 304, 312, 314, 320, 322, 340, 402, 406, 420, 421, 422, 430, 445 (*have additional prerequisites)

## 2. EARTH AND ENVIRONMENTAL SCIENCES (EES) CMS PKG COURSES:

- Earth and Environmental Science courses 300- or 400-level: ATSC, ENVR, GEOS (except: GEOS 307, 407), EOSC (except: EOSC 310, 311, 312, 314, 315, 371, 470, 471, 474, 475, 478).

Recommended: another one of EOSC $324,326^{*}, 329,330,355,372,373$, or GEOS $300^{*}$
Specific prerequisites required from the EES electives ${ }^{*}$
3. 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.

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## 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/ 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 pursuing the CPSC package automatically fulfill their computing requirement by virtue of completing their $1^{\text {st }}$ year CPSC courses
- 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), ASTR 200, PHYS 200, PHYS 305, PHYS 330, PHYS 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.

