COMBINED MAJOR IN SCIENCE
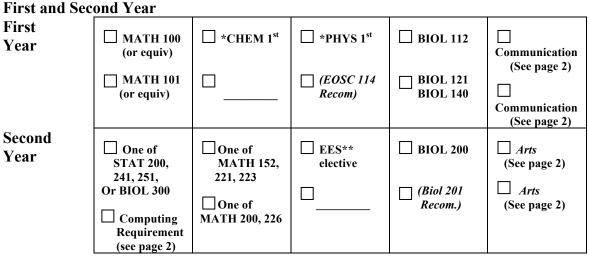## http://www.cms.science.ubc.ca/home
Earth and Environmental Sciences (EES), Life Sciences (LSC),
Statistics (STAT)

First and Second Year

First Year				
☐ **MATH 100** (or equiv)	☐ ***CHEM 1st**	☐ ***PHYS 1st**	☐ **BIOL 112**	☐ **Communication** (See page 2)
☐ **MATH 101** (or equiv)	☐ _____	☐ *(EOSC 114 Recom)*	☐ **BIOL 121 BIOL 140**	☐ **Communication** (See page 2)

Second Year				
☐ **One of STAT 200, 241, 251, Or BIOL 300**	☐ **One of MATH 152, 221, 223**	☐ **EES** ** **elective**	☐ **BIOL 200**	☐ *Arts* (See page 2)
☐ **Computing Requirement (see page 2)**	☐ **One of MATH 200, 226**	☐ _____	☐ *(Biol 201 Recom.)*	☐ *Arts* (See page 2)

*Take two CHEM and/or PHYS lecture courses at the 100-level beyond CHEM 111 and PHYS 100
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

3rd/4th Years				
☐ **SCIE 300**	☐ **STAT 300**	☐ **EOSC 340**	☐ **LSC pkg course**	☐ *Arts* (See page 2)
☐ _____	☐ **STAT 302 or MATH 302**	☐ **EOSC 326, 355, or 372**	☐ **LSC pkg course**	☐ *Arts* (See page 2)
☐ **Generalist Requirement (see page 2)**	☐ **STAT 306 or STAT 344**	☐ **EES pkg course**	☐ **LSC pkg course**	☐ _____
☐ _____	☐ **Lab Requirement (See page 2)**	☐ _____	☐ _____	☐ _____

Note: MATH302/STAT302 may be taken either in year 2 or year 3.

CMS PACKAGES:

1. EARTH AND ENVIRONMENTAL SCIENCES (EES) CMS PACKAGE:
- EOSC 340 (3)
- 3 credits from EOSC 326*, 355, 372
- 3 credits from Earth and Environmental Science courses 300- or 400-level: ATSC, ENVR, GEOB (except for GEOB 307, 407), EOSC (except for EOSC 310, 311, 312, 314, 315, 371, 470, 471, 474, 475, 478). Recommended: another one of EOSC 326*, 355, 372 or EOSC 324*, 329, 330*, 373 or GEOB 300*
  - Specific prerequisites required from the EES electives*

3. LIFE SCIENCES (LSC) CMS PACKAGE:
- 9 credits Life Science courses 300- or 400-level
  Life Science courses include: CAPS 301, 390, 391, BIOC, BIOL (except BIOL 300), GEOB 307, 407, MRNE, MEDG, MICB, PCTH, PHYL, PSYC 360-368, PSYC 460-462, and EOSC 470, 471, 474, 475, 478

3. STATISTICS (STAT) CMS PACKAGE:
- 3C STAT 300
- 3C STAT 302 or MATH 302
- 3C from STAT 306, 344

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** (1 cr) - Prerequisites: CHEM 233, 235, 205
- **EOSC 442** (1 cr) - Prerequisites: EOSC 340 and one of (CPSC 110, CPSC111, CPSC 301, EOSC 211, PHYS 210, MATH 210), and one of STAT 200, STAT241, BIOL300)
- **BIOL 342** (2 cr) - Prerequisite: BIOL 121, 140. (BIOL112/BIOL200 recommended)
- **PHYS 309** (3 cr) - Prerequisite: PHYS 209

CMS CORE COURSES:

- **MATH 100/101** (or equivalent)
- **STAT 200 -** can be replaced with STAT 241 or BIOL 300 in program
  - *Note:* BIOL 300 does not count as a LSC package course.
- **SCIE 300** (Communicating Science)
- **Computing Requirement:** one of: CPSC 110 (or 111), CPSC 301, EOSC 211, MATH 210, PHYS 210
- **Generalist Requirement**: One course (at least 3 cr) from:
      Chemistry: CHEM 200-level
      Physics and Astronomy: 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 credits & advance credits. DO NOT count paired courses, COOP credits, or courses "not for credit in the Faculty of Science".				**120**
Science Credits: includes all required & elective Science courses at all year levels.				**72**
Communication Credits: six credits from ENGL 100, 110, 111, 112 (recommended), 120, 121; SCIE 113; SCIE 300 or CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150; their equivalents				**6**
Arts Credits: includes arts courses at all year levels.				**12**
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).				**48**
Upper-Level Science Credits: includes all Science courses at the 300-level and 400-level required for program.				**32 – 38***

* 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