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

First Year					
	☐ **MATH 100 (or equiv.)** ☐ **MATH 101 (or equiv.)**	☐ **CHEM 121 or 120+115 or CHEM 111 or 110+115** ☐ **CHEM 123 or 130+135**	☐ **PHYS 101 or 107 or 117 or 131** ☐ *(EOSC 114 Recom)*	☐ **BIOL 112** ☐ **BIOL 121 BIOL 140/ 180**	☐ **Communication (See page 2)** ☐ **Communication (See page 2)**
Second Year	☐ **STAT 200 (or equiv.)** ☐ **Computing req. (see page 2)**	☐ **CHEM 233 +235 or CHEM 203 or 223+225** ☐ **CHEM 205 or 208 or 213 or CHEM 211 or 210+215**	☐ **EES* elective** ☐ _____	☐ **BIOL 200** ☐ *(relevant BIOL 2XX recom.)*	☐ *Arts (See page 2)* ☐ *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

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

Third and Fourth Years					
	☐ **SCIE 300** ☐ _____	☐ **CHEM 341** ☐ **CHEM pkg Course 1**	☐ **EOSC 340** ☐ **EOSC 326, or 355, or 372**	☐ **LSC pkg Course 1** ☐ **LSC pkg Course 2**	☐ *Arts (See page 2)* ☐ *Arts (See page 2)*
	☐ **Generalist req. (see page 2)** ☐ _____	☐ **CHEM pkg Course 2** ☐ **Lab req. (See page 2)**	☐ **EES pkg course** ☐ _____	☐ **LSC pkg Course 3** ☐ _____	☐ _____ ☐ _____

1. **CHEMISTRY (CHEM) CMS PKG COURSES:**
   - 6 credits CHEM courses 300- or 400-level (except: CHEM 300, CHEM 348)

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 360-368 and 460, 461, 462.

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 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: 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) of MATH 200-level, any 300-level MATH, 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 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, 120, 121; SCIE 113 (recommended); CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150 (recommended); their equivalents; SCIE 300 (required)				**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