

COMBINED MAJOR IN SCIENCE

<http://www.cms.science.ubc.ca/home>

Life Sciences (LSC), Earth and Environmental Sciences (EES),
Physics & Astronomy – Astronomy (ASTR)

First Year	<input type="checkbox"/> MATH 100 (or equiv.)	<input type="checkbox"/> BIOL 112	<input type="checkbox"/> CHEM 121 (or 111)	<input type="checkbox"/> PHYS 101 or 107 or 117	<input type="checkbox"/> Communication (See page 2)
	<input type="checkbox"/> MATH 101 (or equiv.)	<input type="checkbox"/> BIOL 121 + BIOL140	<input type="checkbox"/> (CHEM 123 or EOSC 114 recom.)	<input type="checkbox"/> PHYS 118 + 119 (or 102, or 108+109)	<input type="checkbox"/> Communication (See page 2)
Second Year	<input type="checkbox"/> STAT 200 (or equiv.)	<input type="checkbox"/> BIOL 200	<input type="checkbox"/> MATH 221 (or 223)	<input type="checkbox"/> PHYS 200	<input type="checkbox"/> EES* elective
	<input type="checkbox"/> Computing req. (see page 2)	<input type="checkbox"/> (PHYS 219 + 229, or BIOL 2XX recom.)	<input type="checkbox"/> MATH 217 (or 200 + 317)	<input type="checkbox"/> PHYS 203	<input type="checkbox"/> Arts (See page 2)

*EES Elective: students pursuing the LSC package will automatically fulfill this req. by virtue of completing their 1st year BIOL courses.

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

Third and Fourth Years	<input type="checkbox"/> SCIE 300	<input type="checkbox"/> LSC pkg Course 1	<input type="checkbox"/> EOSC 340	<input type="checkbox"/> PHYS 216	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> MATH 215	<input type="checkbox"/> LSC pkg Course 2	<input type="checkbox"/> EOSC 326, or 355, or 372	<input type="checkbox"/> ASTR pkg Course 1	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> _____	<input type="checkbox"/> LSC pkg Course 3	<input type="checkbox"/> EES pkg course	<input type="checkbox"/> ASTR pkg Course 2	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> _____	<input type="checkbox"/> Lab req. (See page 2)	<input type="checkbox"/> _____	<input type="checkbox"/> PHYS pkg Course 1	<input type="checkbox"/> _____

1. 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 GEOB 307, 407, EOSC 470, 471, 474, 475, 478, PSYC 360-371 and 460 - 472.

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

- Earth and Environmental Science courses 300- or 400-level: ATSC, ENVR, GEOB (except: GEOB 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 GEOB 300*
Specific prerequisites required from the EES electives*

3. ASTRONOMY (ASTR) CMS PKG COURSES:

- ASTR 300, 333, 403, 406, 407

4. PHYSICS (PHYS) CMS PKG COURSES:

- All PHYS courses at the 300- or 400-level, except PHYS 348

NOTE: THIS IS A VERY HEAVY AND AMBITIOUS COMBINATION OF PACKAGES

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 205, CHEM 208, CHEM 211
- **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
- **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, if pursuing the EES/LSC/ASTR curriculum, automatically fulfill their generalist requirement by virtue of completing their second year MATH courses.

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>