COMBINED MAJOR IN SCIENCE

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

Earth and Environmental Sciences (EES), Life Sciences (LSC), Physics (PHYS)

First and Sec	ond Year									
First Year	MATH 100 (or equiv)	☐ CHEM 121 (111)	☐ PHYS 101 (or PHYS107)	☐ BIOL 112	Communication					
	MATH 101 (or equiv)	☐ CHEM 123 (113)	PHYS 102 (or 108)	☐ BIOL 121 BIOL 140	(See page 2) Communication (See page 2)					
Second Year	☐ STAT 200	☐ PHYS 200	☐ MATH 200	☐ BIOL 200	☐ Arts (See page 2)					
	Computing Requirement (see page 2)	PHYS 219 / PHYS 229 Recom.)	EES** elective	☐ (Biol 201 Recom.)	Arts (See page 2)					
**EES Elective: one of ATSC 201, BIOL 111, BIOL 112, BIOL 121, GEOB 103, 200 or EOSC 110 and 111 Note: MATH 215 (or 225), MATH 217 (or 227 or 317), EOSC 114 recommended										
Third and Fo	urth Year – See	e below for specifi	ic information on	packages						
3 rd /4th Years	SCIE 300	PHYS 301, 304, or 333	☐ EOSC 340	LSC pkg course	Arts (See page 2)					
		PHYS pkg course	EOSC 326, 355, or 372	LSC pkg course	Arts (See page 2)					
	Generalist Requirement	☐ PHYS pkg course	☐ EES pkg course	LSC pkg course						
	(see page 2)	Lab Requirement (See page 2)								
CMS PACKAGES:										

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

2. 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. PHYSICS (PHYS) CMS PACKAGE:

- 3 credits of PHYS 301*, 304*, 333
- 6 credits PHYS or ASTR courses 300- or 400-level Recommended Courses: PHYS 301*, 304*, 305*, 309*, 312*, 314*, 315*, 318*, 319*, 330, 333, 404*, 405, 420

*Other Prerequisites in addition to 1st/2nd year Core.

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: 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

Mathematical Sciences: MATH 200-level, MATH 360 or 300-level MATH

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				120
credits & advance credits. DO NOT count paired				
courses, COOP credits, or courses "not for credit in				
the Faculty of Science".				
Science Credits: includes all required & elective				72
Science courses at all year levels.				
Communication Credits: six credits from ENGL				
100, 110, 111, 112 (recommended), 120, 121; SCIE				6
113; SCIE 300 or CHEM 300; APSC 176; ASTU				
100, 150; or WRDS 150; their equivalents				
Arts Credits: includes arts courses at all year				12
levels.				
Upper-Level Credits: includes all courses at the				48
300-level and 400-level in any field (Arts, Science,				
and a maximum of 18 "Other" cr.).				
Upper-Level Science Credits: includes all Science				32 – 38*
courses at the 300-level and 400-level required for				
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