

COMBINED MAJOR IN SCIENCE
<http://www.cms.science.ubc.ca/home>
 Chemistry (CHEM), Life Sciences (LSC)
 Physics (PHYS),

First and Second Year

First Year	<input type="checkbox"/> MATH 100 (or equiv)	<input type="checkbox"/> CHEM 121 (111)	<input type="checkbox"/> PHYS 101 or 107	<input type="checkbox"/> BIOL 112	<input type="checkbox"/> Communication (See page 2)
	<input type="checkbox"/> MATH 101 (or equiv)	<input type="checkbox"/> CHEM 123 (113)	<input type="checkbox"/> PHYS 118 & 119 (or 108 & 109)	<input type="checkbox"/> BIOL 121 BIOL 140	<input type="checkbox"/> Communication (See page 2)
Second Year	<input type="checkbox"/> STAT 200	<input type="checkbox"/> CHEM 233, 235	<input type="checkbox"/> PHYS 200	<input type="checkbox"/> BIOL 200	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> Computing Requirement (see page 2)	<input type="checkbox"/> CHEM 205	<input type="checkbox"/> (PHYS 219 / PHYS 229 <i>Recom.</i>)	<input type="checkbox"/> MATH 200	<input type="checkbox"/> Arts (See page 2)

Note: BIOL 201 and MATH 215 (or 225), MATH 217 (or 227 or 317) recommended

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

3rd/4th Years	<input type="checkbox"/> SCIE 300	<input type="checkbox"/> CHEM 341	<input type="checkbox"/> PHYS 301, 304, or 333	<input type="checkbox"/> LSC pkg course	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/>	<input type="checkbox"/> CHEM pkg course	<input type="checkbox"/> PHYS pkg course	<input type="checkbox"/> LSC pkg course	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> Generalist Requirement (see page 2)	<input type="checkbox"/> CHEM pkg course	<input type="checkbox"/> PHYS pkg course	<input type="checkbox"/> LSC pkg course	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/> Lab Requirement (see page 2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CMS PACKAGES:

1. CHEMISTRY (CHEM) CMS PACKAGE:

- CHEM 341 (3)
- 6 credits CHEM courses 300- or 400-level

2. LIFE SCIENCES (LSC) CMS PACKAGE:

- 9 credits Life Science courses 300- or 400-level
 Life Science courses include: CAPS 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 & ASTRONOMY - 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:

Review lower level requirements for B.Sc.

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1465>

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

CORE COURSES:

- **MATH 100/101** (or equivalent)
- **STAT 200** - can be replaced with STAT 241 or BIOL 300 in program
- *Note:* BIOL 300 will not count as a life science elective.
- **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:
 - Earth and Environmental Science: EOSC 340, 326, 477, 453, 354, 329, GEOB 400
 - Mathematical Sciences: MATH 200-level, MATH 360 or 300-level MATH

GRADUATION CHECKLIST TABLE FOR CMS

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 requirement.

Review CMS information in Calendar:

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,215,410,1474>