

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

<b>First Year</b>	<input type="checkbox"/> MATH 100 (or equiv.)	<input type="checkbox"/> CHEM 121 (or 111)	<input type="checkbox"/> BIOL 112	<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"/> CHEM 123	<input type="checkbox"/> BIOL 121 + BIOL 140	<input type="checkbox"/> PHYS 118 + 119 (or 102, or 108+109)	<input type="checkbox"/> Communication (See page 2)
<b>Second Year</b>	<input type="checkbox"/> STAT 200 (or equiv.)	<input type="checkbox"/> CHEM 233, 235	<input type="checkbox"/> BIOL 200	<input type="checkbox"/> PHYS 200	<input type="checkbox"/> ( <i>Relevant BIOL 2XX recom.</i> )
	<input type="checkbox"/> Computing req. (see p. 2)	<input type="checkbox"/> CHEM 205 or 208 or 211 or 213	<input type="checkbox"/> MATH 217 (or 200 + 317)	<input type="checkbox"/> ( <i>PHYS 219 + 229 recom.</i> )	<input type="checkbox"/> Arts (See page 2)

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

<b>Third and Fourth Years</b>	<input type="checkbox"/> SCIE 300	<input type="checkbox"/> CHEM 341	<input type="checkbox"/> LSC pkg Course 1	<input type="checkbox"/> PHYS pkg Course 1 (3cr)	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> ( <i>MATH 215 recom.</i> )	<input type="checkbox"/> CHEM pkg Course 1	<input type="checkbox"/> LSC pkg Course 2	<input type="checkbox"/> PHAS pkg Course 1 (3 cr)	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> _____	<input type="checkbox"/> CHEM pkg Course 2	<input type="checkbox"/> LSC pkg Course 3	<input type="checkbox"/> PHAS pkg Course 2 (3 cr)	<input type="checkbox"/> Arts (See page 2)
	<input type="checkbox"/> _____	<input type="checkbox"/> Lab req. (See page 2)	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

**1. CHEMISTRY (CHEM) CMS PKG COURSES:**

- 6 credits CHEM courses 300- or 400-level (except: CHEM 300, CHEM 348)

**2. 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.

**3. PHYSICS & ASTRONOMY (PHAS) CMS PKG COURSES:**

- All PHYS and ASTR courses at the 300- or 400-level, except PHYS 348  
 Recommended: PHYS 301\*, 304, 305, 309\*, 312\*, 314\*, 315\*, 318, 319\*, 330, 333, 404, 405, 420;  
 ASTR 300, 333, 403, 406, 407 (\*have additional pre-requisites)

**4. PHYSICS (PHYS) CMS PKG COURSES:**

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

## 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). 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, if pursuing the CHEM/LSC/PHYS 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
<b>Total Credits:</b> 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".				<b>120</b>
<b>Science Credits:</b> includes all required & elective Science courses at all year levels.				<b>72</b>
<b>Communication Credits:</b> 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				<b>6</b>
<b>Arts Credits:</b> includes arts courses at all year levels.				<b>12</b>
<b>Upper-Level Credits:</b> includes all courses at the 300-level and 400-level in any field (Arts, Science, and a maximum of 18 "Other" cr.).				<b>48</b>
<b>Upper-Level Science Credits:</b> includes all Science courses at the 300-level and 400-level required for program.				<b>32 – 38*</b>

\* 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>