

## COMBINED MAJOR IN SCIENCE

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

Chemistry (CHEM), Mathematical Sciences – INTERFACE (any option),  
Life Sciences (LSC)

<b>First Year</b>	<input type="checkbox"/> MATH 100 (or equiv.)  <input type="checkbox"/> MATH 101 (or equiv.)	<input type="checkbox"/> CHEM 121 or 120+115 or CHEM 111 or 110+115  <input type="checkbox"/> CHEM 123 or 130+135	<input type="checkbox"/> PHYS 101 or 106 or 107 or 117 or 131  <input type="checkbox"/> CPSC 110 or 111 (Interface A, C, D)	<input type="checkbox"/> BIOL 112  <input type="checkbox"/> BIOL 121 BIOL 140/ 180	<input type="checkbox"/> Communication (See page 2)  <input type="checkbox"/> Communication (See page 2)
<b>Second Year</b>	<input type="checkbox"/> STAT 200 (or equiv.)  <input type="checkbox"/> Computing req. (see p. 2) only Interface B	<input type="checkbox"/> CHEM 233 +235 or CHEM 203 or 223+225  <input type="checkbox"/> CHEM 205 or 208 or 213 or 211 or 210+215	<input type="checkbox"/> MATH 200  <input type="checkbox"/> MATH 221	<input type="checkbox"/> BIOL 200  <input type="checkbox"/> CPSC 121 AND 210 (Interface C only)	<input type="checkbox"/> Arts (See page 2)  <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"/> _____  <input type="checkbox"/> Generalist req. (see page 2)  <input type="checkbox"/> _____	<input type="checkbox"/> CHEM 341  <input type="checkbox"/> CHEM pkg Course 1  <input type="checkbox"/> CHEM pkg Course 2  <input type="checkbox"/> Lab req. (See page 2)	<input type="checkbox"/> Interface pkg Course 1  <input type="checkbox"/> Interface pkg Course 2  <input type="checkbox"/> Interface pkg Course 3  <input type="checkbox"/> _____	<input type="checkbox"/> LSC pkg Course 1  <input type="checkbox"/> LSC pkg Course 2  <input type="checkbox"/> LSC pkg Course 3  <input type="checkbox"/> _____	<input type="checkbox"/> Arts (See page 2)  <input type="checkbox"/> Arts (See page 2)  <input type="checkbox"/> _____  <input type="checkbox"/> _____
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### 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 GEOS 307, 407, EOSC 470, 471, 474, 475, 478, PSYC 360-371 and 460 - 472.

### 3. MATHEMATICAL SCIENCES (MASC) – INTERFACES A – D CMS PKG COURSES:

Select one of the following Interface options:

- Interface A** – Prerequisites: CPSC 110 or 111, MATH 200, 221; Package courses: two of: MATH/STAT 302, MATH 303, STAT 305; one of: CPSC 302, CPSC 303
- Interface B** – Prerequisites: MATH 200, 221; Package courses: all of: MATH/STAT 302, MATH 303, STAT 305

- **Interface C** – Prerequisites: CPSC 110 or 111, 121, 210 or 221, MATH 200, 221; Package courses: all of: CPSC 340, STAT 306, STAT 406
- **Interface D** – Prerequisites: CPSC 110 or 111, 121, 210 or, 221, MATH 200, 221; Package courses: all of: CPSC 302, 402, MATH 307

## 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 CHEM 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) - Prerequisites: BIOL 121, 140 or 180
- **PHYS 309** (3 cr) - Prerequisites: 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 take **one** (at least 3 cr) of ASTR 200, PHYS 200, PHYS 305, PHYS 330, PHYS 333, EOSC340, 326, 477, 453, 354, 329, GEOS 400

## 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, 120, 121; SCIE 113 (recommended); CHEM 300; APSC 176; ASTU 100, 150; or WRDS 150 (recommended); their equivalents; SCIE 300 is required for the CMS program				<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>