

COMBINED MAJOR IN SCIENCE

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

Mathematical sciences – Interface (any option, A - D), Life Sciences (LSC),
Physics & Astronomy – Physics (PHYS)

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+ BIOL 140	<input type="checkbox"/> CHEM 123	<input type="checkbox"/> PHYS 118 + 119 (or 102, or 108+109)	<input type="checkbox"/> CPSC 110 or CPSC 111 (Interface A, C, D)
Second Year	<input type="checkbox"/> STAT 200 (or equiv.)	<input type="checkbox"/> CPSC 121 + CPSC 210 (Interface C only)	<input type="checkbox"/> MATH 217 (or 200)	<input type="checkbox"/> PHYS 200	<input type="checkbox"/> Communication (See page 2)
	<input type="checkbox"/> Computing req. (see p. 2) only Interface B	<input type="checkbox"/> (MATH 215 recom.)	<input type="checkbox"/> MATH 221	<input type="checkbox"/> BIOL 200	<input type="checkbox"/> Arts (See page 2)

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

Third and Fourth Years	<input type="checkbox"/> SCIE 300	<input type="checkbox"/> Interface pkg Course 1	<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"/> (PHYS 219 + 229 recom.)	<input type="checkbox"/> Interface pkg Course 2	<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"/> Generalist req. (see page 2)	<input type="checkbox"/> Interface pkg Course 3	<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. 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
 - Two of: MATH/STAT 302, MATH 303, STAT 305
 - One of: CPSC 302, CPSC 303
- **Interface B** – Prerequisites: MATH 200, 221
 - All of: MATH/STAT 302, MATH 303, STAT 305
- **Interface C** – Prerequisites: CPSC 110 or 111, 121, 210 or, 221, MATH 200, 221
 - All of: CPSC 340, STAT 306, STAT 406
- **Interface D** – Prerequisites: CPSC 110 or 111, 121, 210 or, 221, MATH 200, 221
 - All of: CPSC 302, 402 (additional pre-requisites – check!), MATH 30
 - 6 credits of CPSC courses 300- or 400-level

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 (PHYS) CMS PKG COURSES:

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

4. 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)

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, 103, 110, 111, 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 CHEM 200 or higher (except: CHEM 300), or BIOL 121, 343, 345, 346, 438

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>