

# GRADUATION CHECKLIST FOR GENERAL SCIENCE

Name: \_\_\_\_\_ UBC Student Number: \_\_\_\_\_

Concentration: \_\_\_\_\_ Secondary Area(s): \_\_\_\_\_

## SCIENCE REQUIREMENTS

Chemistry 12 <input type="checkbox"/> or CHEM 111 <input type="checkbox"/> and Physics 12 <input type="checkbox"/> or PHYS 100 <input type="checkbox"/>	Physical Sciences (6 credits) (CHEM and/or PHYS): _____ _____	Other Sciences (3 credits) (ASTR/BIOL/EOSC/GEOG/PSYC) _____ _____
Computational (9 credits): MATH 100 <input type="checkbox"/> (or 102, 104, 110, 120, 180, 184) MATH 101 <input type="checkbox"/> (or 103, 105, 121) 3 credits of MATH, STAT, or CPSC _____	Biol. 11 or 12 <input type="checkbox"/> or BIOL 111 <input type="checkbox"/>	Two 1-term lab courses: _____ _____

## UPPER-LEVEL DEGREE REQUIREMENTS:

PRIMARY CONCENTRATION (18 credits): _____ _____ _____ _____ _____ _____	SECONDARY AREA(S) OF CONCENTRATION _____ _____ _____ _____ _____ _____ Note: This includes either 12 credits in one area or 6 credits in two different areas. See next page for detailed explanation of areas of concentration.
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## ARTS REQUIREMENT - Total (min. 18 credits):

3	ENGL	_____	_____	_____	_____
3	ENGL	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### “OTHER” CREDIT ALLOWANCE (OPTIONAL):

You can take a **Maximum of 18 credits** from Faculties “other” than Arts and Science (Commerce, LFS, etc.)

### CREDIT TOTALS

	Completed	in Progress	Total	Required (see back)
<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>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, both required and elective credits.				<b>30</b>

# GRADUATION CHECKLIST INFORMATION

If your credit totals meet (or exceed) the minimum requirements and you have completed the Arts and Lower Level Science requirements, then you have satisfied all of the Faculty of Science requirements for a BSc in General Sciences. If you have any questions or identify any problems then please contact Shona Ellis (shona@interchange.ubc.ca).

## **1) What are Areas of Concentration in General Science?**

Students will focus on two or three of the **five** areas of concentration: Chemistry, Earth Science, Life Sciences, Mathematical Science and Physics/Astronomy.

Courses that apply to each concentration:

**(a) Chemistry** (CHEM 0081) - CHEM

**(b) Earth Science** (ERSC 0225) - ATSC, GEOB (**except** for GEOB 307, 407), EOSC (**except** for EOSC 310, 311, 312, 314, 315, 371, 470, 471, 474, 475, 478) – **see 5 below**

**(c) Life Science** (LFSC 0440) - ANAT 390, 391, BIOC, BIOL, GEOB 307 and 407, MRNE, MEDG, MICB, PCTH, PHYL, PSYC courses for science credit, and EOSC 371, 470, 471, 474, 475, 478 – **see 5 below**

**(d) Mathematical Science** (MASC 0029) - CPSC, MATH, STAT

**(e) Physics and Astronomy** (PHYS 0271) – PHYS, ASTR

## **2) What are the General Science Options?**

There are two different options (routes), which require a student to take a minimum of 30 credits of upper level science courses.

**Route A** requires the student to choose two areas of concentration: 18 credits in one area and 12 credits in a second area.

**Route B** requires three areas: 18 credits in a primary area of concentration as well as 6 credits in a second area and 6 credits in a third.

## **3) What are the Faculty of Science requirements?**

The requirements are listed in the UBC Calendar on-line at <http://students.ubc.ca/calendar/index.cfm?tree=12,215,410,408>. They include the English, Arts, Lower-Level (first-year), Breadth, and Science requirements. All of these are covered in the worksheet. The breadth requirement is fulfilled by completing courses in the areas of concentration.

The Faculty of Science requires a **minimum total 120 credits**.

## **4) What are credit-excluded courses?**

Paired courses are courses in which there is sufficient overlap that credit may be obtained for only one course in each group. Some courses, although paired with others, may not satisfy degree requirements. A list of credit-excluded courses is available in the Faculty of Science section of the Calendar (<http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,414>).

## **5) Which courses have Science credit?**

Most courses offered by the Faculty of Science have Science credit, **except** for courses that are “**not for credit in the Faculty of Science**”. Examples are EOSC 310, MATH 335 or CHEM 430.

The following courses (not in the Faculty of Science) also have Science credit:

**Geography** courses designated **GEOB**; (GEOG courses are arts).

**Psychology**: In addition to PSYC 348 and 448, all PSYC courses numbered 60 or above in the last two digits have Science credit.

**Land and Food Systems**: FNH 350, 351, 450, 451.

**Faculty of Medicine**: ANAT 390, ANAT 391; all BIOC, PCTH, and PHYL courses; MEDG 410-421.

## **6) Which courses have Arts credit?**

Almost any course offered by the Faculty of Arts has Arts credits.

**Geography** courses as of 2009W designated **GEOG** are counted as Arts credit (those designated **GEOB** are Science credit).

**Psychology** courses numbered below 60 in the last two digits (except PSYC 348, 448).

A maximum of 8 credits from ensemble courses in **Musical performance** (MUSC 150-165).

## **7) What are “Other” credits?**

Any course that does not have Science or Arts credit (see above) is considered to be “other” credit. This includes all courses in Commerce, Human Kinetics, Applied Science, Education, and most courses in Land and Food Systems, and Medicine. Geography courses that are neither Science nor Arts credits (GEOG 310, 317, 318, etc) are NOT “other” credits; these courses will be counted as upper level credit and will count toward overall credit.

## **8) What should I look for in Advance or Transfer Credits?**

A maximum of 60 credits from another institution will be used toward a Major BSc degree. Credit will not be given for the same (or equivalent) course transferred to UBC and taken at UBC (e.g., AP or IB credit for MATH 100 is wiped out if you took MATH 100 at UBC). Some courses appear as transfer credit but do not apply to the BSc degree; e.g., STAT 203. Also watch for “**not for credit in Science**”. Some courses carry more credit than Science will grant; e.g., MATH 111 (6) satisfies the MATH 100 requirement but is only worth 3 credits toward the BSc. Transfer credit for a second-year credit that excuses you from a third-year course at UBC (e.g., BIOL 2<sup>nd</sup>, precludes credit for BIOL 334) does not contribute upper-level credit toward your degree. Normally, only 100- and 200-level courses are transferable to your BSc degree unless the Science Information Centre has given approval.