

NAME: \_\_\_\_\_

STUDENT NUMBER: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

WINTER SESSION ENTERED HONS SPECIALIZATION: \_\_\_\_\_

## **Honours Specialization [0462]: Geological Sciences Session 2020W - COURSE TEMPLATE: minimum 132 credits**

A student wishing to enter the Geological Sciences Honours specialization must meet the following requirements:

- Complete a minimum of 30 credits in each Winter Session starting with Year 1 [with the exception of your final year when you take only the number of credits needed to complete your degree]
- Maintain an average of at least 68%, and have no “F”s

An application to enter the Geological Sciences Honours specialization is normally made at the end of 2<sup>nd</sup> year, although the requirements for the Honours degree must have already been met in Years 1 and 2. In order to be admitted into the Geological Sciences Honours specialization, students are required to seek an appointment with the Honours Geological Sciences advisor during 2<sup>nd</sup> year to help plan their degree and review their eligibility. Admittance is based on the recommendation of the Honours advisor and the approval of the department. It is normally granted by the Faculty of Science after completion of year 2.

### **Important caveats**

- The Students are responsible for checking that you meet all requirements laid out by the Faculty of Science as noted in the UBC Calendar (reproduced at the end of this template). The following Template is only intended as a guide.
- Graduation requirements laid out in the UBC Calendar are specific for the Winter Session in which you first registered in the Honours specialization.
- Be aware of course co-requisites and pre-requisites, and ask for advice if you do not have a pre-requisite.
- Be aware of the Credit Exclusion Lists in the Faculty of Science section of the UBC Calendar as you chose your courses.
- Take note of the promotion requirements to years 2, 3, and 4 as listed in the UBC Calendar. These requirements and your academic standing (average grade) control your registration date.
- For APEGBC requirements to become a PROFESSIONAL REGISTERED GEOLOGIST, refer to <http://www.apeg.bc.ca> for additional required course content.

**NOTE:** Please use **black** pen for courses completed, **red** for courses that you are currently enrolled in, and **blue** for course you are planning to take in future years

## I. FIRST YEAR

### REQUIRED COURSES (30-33 CREDITS)

COURSES	COURSES TAKEN	CREDIT
Communication Requirement* <sup>1</sup>		/6
EOSC* <sup>2</sup> 110 (recommended) (or 112 or 114 or 116) + EOSC 111		/4
CHEM* <sup>3</sup> 111 or 121 and 113 or 123		/8
MATH 100 or 102 or 104* <sup>4</sup>		/3
MATH 101 or 103 or 105* <sup>5</sup>		/3
PHYS* <sup>6</sup> 117 (or 101 or 107) <b>and/or</b> 118 (or 102 or 108)		/6(3)
ELECTIVE * <sup>7</sup>		/3
<b>TOTAL</b>		<b>/33(30)</b>

\*<sup>1</sup> 6 credits of coursework are required to meet the Communication Requirement. ENGL 100, 110, 111, 112 are recommended. For a full list of acceptable courses, see UBC Calendar. 3 credits of the communication requirement can be deferred to second year. SCIE 113 may be used as communication credits, but does not count towards Arts electives.

\*<sup>2</sup> May be deferred to second year and taken concurrently with EOSC 220.

\*<sup>3</sup> Students who do not have B.C. High School Chemistry 12 (or its equivalent) must write the UBC Chemistry Basic Skills Test and may be required to take CHEM 100.

\*<sup>4</sup> MATH 180 or 184 or 120 may be substituted for any of the specified differential calculus courses listed and the elective credits decreased by 1. MATH 110 may be substituted for any of the specified differential calculus courses listed and the elective credits decreased by 3.

\*<sup>5</sup> MATH 121 may be substituted for any of the specified integral calculus courses listed and the elective credits decreased by 1.

\*<sup>6</sup> Students without credit for Physics 12 must take PHYS 100 prior to any other 100-level PHYS courses. PHYS 100 will count as an elective. Qualified students are encouraged to add PHYS 119 or to take PHYS 107/108/109 and to decrease elective credits accordingly by 1. Students may delay taking 3 credits of PHYS 100-level to second year.

\*<sup>7</sup> Students without Biology 11 or 12 must take 3 credits of 100-level BIOL (usually BIOL 111).

## II. BEYOND FIRST YEAR

### REQUIRED SCIENCE COURSES (9-12 CREDITS)

COURSES	CREDIT
CHEM 201 or 205	/3
MATH 200	/3
MATH 221 or STATS 200	/3
±[PHYS* <sup>6</sup> 117 (or 101 or 107) <b>or</b> 118 (or 102 or 108)]	/3
<b>TOTAL</b>	<b>/9(12)</b>

**REQUIRED EOSC COURSES IN GEOLOGY AND GEOPHYSICS (63 CREDITS)**

<b>COURSES</b>	<b>CREDIT</b>
EOSC 211 or GEOB 270	/3
EOSC 212	/3
EOSC 220	/3
EOSC 221	/3
EOSC 222	/3
EOSC 223	/3
EOSC 320	/3
EOSC 321	/3
EOSC 322	/3
EOSC 323	/3
EOSC 327 or EOSC 333	/3
EOSC 328	/3
EOSC 329	/3
EOSC 330	/3
EOSC 332	/3
EOSC 449	/6
EOSC 350 (recommended) or 250	/3
EOSC 300-LEVEL <sup>*6</sup> (counts toward total elective credits)	/3
EOSC 400-LEVEL <sup>*7</sup> (counts toward total elective credits)	/6
<b>TOTAL</b>	<b>/63</b>

\*6 Includes EOSC courses numbered 320 to 349, except for EOSC 340 and those courses designated “Not for credit for students in Earth, Ocean and Atmospheric Sciences specializations”.

\*7 Includes EOSC courses numbered 420 to 425 and 428 to 432. Does not include Directed Studies (EOSC 448), which can be taken as an elective (see below)

**ARTS ELECTIVES\*8 (MINIMUM 12 CREDITS)**

<b>COURSES</b>	<b>CREDIT</b>
	/3
	/3
	/3
	/3
<b>TOTAL</b>	<b>/12( )</b>

\*8 Includes:

- Faculty of Arts courses offered by GEOG department (see UBC Calendar); and
- Most other courses offered by Faculty of Arts.

## OTHER ELECTIVES\*<sup>9</sup> (MINIMUM 15 CREDITS)

COURSES	CREDIT
	/3
	/3
	/3
	/3
	/3
<b>TOTAL</b>	<b>/15( )</b>

\*<sup>9</sup> Includes:

- Faculty of Science (including EOSC) courses that are offered for credit to Science students;
- Faculty of Arts courses; and most courses in “Other” faculties at UBC and transferring institutions.
- See the Honours Geological Sciences Specialization Guide for a list of approved electives from “Other” faculties.
- *A maximum of 24 credits not in the faculties of Science or Arts may be used towards the Honours Geological Sciences degree, but only 6 credits will count towards the minimum upper-level (300-level+) requirement.*
- May include a maximum of 6 credits for almost any other course(s) from UBC or a transferring institution, except for courses designated “Not for credit for Geological Sciences or Science students”.
- Check with an advisor about the admissibility of “Other” electives, as there are some additional restrictions.
- DIRECTED STUDIES (EOSC 448) may be taken as an elective, but must be approved by the EOAS departmental Geol. Hons advisor. We would prefer a maximum of 6 credits in your Hons degree taken as 2 x 3-credit courses. Science Breadth Requirement
- All B.Sc. students are required to have reasonable breadth in their understanding of science. Students in the honours specialization must successfully complete at least 3 credits from any 2 of the 3 following categories:
  - Life Science: All BIOL courses except BIOL 140, BIOL 300; all BIOC, PSYC (courses numbered from 60 to 89 in the last 2 digits), and MICB courses and GEOB 207
  - Statistics: BIOL 300, DSCI 100, MATH 302, all STAT courses
  - Computer Science: All CPSC courses

[Students in a combined major or combined honours specialization must successfully complete at least 3 credits from any 1 of the 3 categories.] These courses can be at any level. Students must satisfy at least all but one of the required categories before they can be promoted to fourth year.

## IMPORTANT

Your degree specialization must meet the following Faculty of Science and departmental requirements:

CREDIT CATEGORY	NUMBER OF CREDITS	YOUR TOTAL CREDITS
Total Science credits	72 minimum	
of which 300-level +	42 minimum	
Total Arts credits	12 minimum	
Communication Requirement	6	
Total elective credits	39 minimum	
Maximum total credits not in Science or Arts (optional)	24 maximum	
<b>Total credits</b>	<b>132 minimum</b>	
<b>of which 300-level +</b>	<b>48 minimum (6 maximum from outside Science or Arts)</b>	

## **Appendix 1 - UBC Calendar 2020W (UBC's official degree requirements)**

### **Honours (0462): Geological Sciences**

<b>First Year</b>	
Communication Requirement <sup>1</sup>	6
CHEM 121 (or 111), 123 (or 113) <sup>2</sup>	8
EOSC 110 or 112 or 114 or 116	3
EOSC 111	1
MATH 100 or 102 or 104 <sup>3</sup>	3
MATH 101 or 103 or 105 <sup>4</sup>	3
PHYS 117 (or 101 or 107) <sup>5</sup>	3
PHYS 118 (or 102 or 108) <sup>5</sup>	3
Elective <sup>6</sup>	3
Total Credits	33
<b>Second Year</b>	
CHEM 201 or 205	3
EOSC 211 or GEOB 270	3
EOSC 212, 220, 221, 222, 223 <sup>7</sup>	15
MATH 200	3
MATH 221 or STAT 200	3
Electives <sup>6</sup>	9
Total Credits	36
<b>Third and Fourth Years</b>	
EOSC 320, 321, 322	9
One of EOSC 327, 333	3
EOSC 323, 328 <sup>8</sup> , 329	9
EOSC 330, 332, 449	12
EOSC 250 or 350	3
Additional EOSC 300-level	3
Additional EOSC 400-level	6
Electives <sup>6</sup>	18
Total Credits	63
<i>Total Credits for Degree</i>	132

<sup>1</sup> A total of 6 credits of coursework is required to meet the Communication Requirement. ENGL 112 is recommended. For a full list of acceptable courses, see [Communication Requirement](#).

<sup>2</sup> Students who do not have B.C. High School Chemistry 12 (or its equivalent) must write the UBC Chemistry Basic Skills Test and may be required to take CHEM 100.

<sup>3</sup> MATH 180 or 184 or 120 may be substituted for any of the specified differential calculus courses listed and the elective credits decreased by 1. MATH 110 may be substituted for any of the specified differential calculus courses listed and the elective credits decreased by 3.

<sup>4</sup> MATH 121 may be substituted for any of the specified integral calculus courses listed and the elective credits decreased by 1.

<sup>5</sup> Students without credit for Physics 12 must take PHYS 100 prior to any other 100-level PHYS courses. PHYS 100 will count as an elective. Qualified students are encouraged to add PHYS 119 or to take PHYS 107/108/109 and to decrease elective credits accordingly by 1. Students may delay taking 3 credits of PHYS 100-level to second year.

<sup>6</sup> Elective credits together with required courses must fulfill the Faculty of Science's:

a) Foundational Requirement; b) Laboratory Science Requirement; c) Science Breadth Requirement; d) Science and Arts Requirements; e) Upper-level Requirement; f) General Degree Requirements.

<sup>7</sup> Includes a field school in May of second year (extra fee to be paid).

<sup>8</sup> Field School in May after third year (extra fee to be paid).

## **Appendix 2 - UBC Calendar 2020W (UBC's official degree requirements)**

### **Summary of Minimum Program Requirements**

	<b>Honours or Combined Honours</b>	<b>Honours+Minor in Science</b>
Total Credits	132	132
of which courses 300+	48	60
Total Science Credits	72	72
of which courses 300+	42	54
Total Arts Credits*	12	12
Max. credits not in Science or Arts (optional)	24	24

\*excluding the 6 Arts credits used to satisfy the Communication Requirement

### **Promotion Requirements for students in the Honours Specialization [0462]: Geological Sciences**

#### **Promotion to Third Year**

Promotion to third year requires successful **completion of 48 or more credits**. Students must meet the minimum requirements for promotion to third year in a B.Sc. specialization within a maximum of 78 credits of coursework attempted or be required to withdraw from the Faculty. **The Honours: Geological Sciences specialization also requires that any three of EOSC 220, EOSC 221, EOSC 222, or EOSC 223 must have been passed for promotion to third year.** Students will not be considered for promotion until they have completed 3/5ths of the named credits (i.e., not electives) listed in the second year of their declared specialization. The minimum academic achievement required for promotion is an average of at least 60% on 3/5ths of the named credits. Honours specializations have higher expectations for academic achievement.

#### **Promotion to Fourth Year**

Promotion to fourth year requires successful completion of a total of 72 or more credits. Of these, 50 or more credits must be science credits, **including all of the Faculty's Lower-Level Requirements; all required courses specified in the first and second years by the specialization (but not all general electives)**; at least all but one of the courses required to satisfy the Science Breadth Requirement; and at least 40% of the credits specified in the upper years by the specialization. In addition, the Communication Requirement must be complete. Students who go on a Go Global exchange or who have completed at least one co-op work term will be promoted if they meet the other requirements and have gained at least one-third of the credits specified in the upper years. **The Honours: Geological Sciences specialization does not require any specific courses for promotion to fourth year.** In exceptional circumstances, a student who does not meet the promotion requirements may be removed from the specialization. A student must meet the minimum requirements for promotion to fourth year in a B.Sc. specialization within a maximum of 180 credits of coursework attempted. Registration controls will be imposed on students who approach that limit without having completed the Communication Requirement. Students who reach the credit limit without meeting the requirements will be required to withdraw from the Faculty. Students must meet all the graduation requirements for the degree within a maximum of 180 credits of coursework attempted. Those who do not will be required to withdraw from the Faculty.