

**B.Sc. PHYSICAL GEOGRAPHY – Major**

 Name: \_\_\_\_\_ Student No.: \_\_\_\_\_ Admit Term: \_\_\_\_\_  
 Stream: \_\_\_\_\_ Minor: \_\_\_\_\_

COURSES		HRS	GRD	PGM		ELECTIVES (33)	HRS	GRD	PGM	(IF) MINOR (18 cr.hrs.)			
										COURSES	HRS	GRD	
GEOG 1290 (C)					6 cr.hrs. from Arts								
PHYS 1020 <sup>1</sup>													
MATH 1500 <sup>2</sup>													
GEOG 2200 (C)													
GEOG 2300 (C)													
GEOG 2272 <sup>3</sup> (C)													
GEOG 2310 (C)													
ENVR 2810 <sup>4</sup>										*See PROGRAM NOTES on 2 <sup>nd</sup> page.			
GEOG 2540										ATTEMPTS (Failures/Repeats/Extra Courses)			
GEOG 2550 (C)													
GEOG 3730 (C)													
GEOG 3810 <sup>5</sup> (C)													
21 credit hours from the following courses:	PHYS 1030 <sup>1</sup>				CO-OPERATIVE EDUCATION								
	MATH 1300 <sup>2</sup>					ENVR 2900 (1.5)							
	GEOG 1340					ENVR 3980 (0)							
	COMP 1012					ENVR 3910 (1.5)							
	CHEM 1100 <sup>6</sup>					ENVR 3900 (1.5)							
	CHEM 1110 <sup>6</sup>					ENVR 3990 (0)							
	CHEM 1120 <sup>6</sup>					ENVR 3920 (1.5)							
	STAT 1000 <sup>7</sup>				(opt)	ENVR 4980 (0)							
	STAT 2000				(opt)	ENVR 4910 (1.5)							
	BIOL 1020 <sup>8</sup>												
	BIOL 1030 <sup>8</sup>												
MATH 1700 <sup>2</sup>													
<b>STREAM: 30 cr.hrs. (18 cr.hrs. at 3000 / 4000 level)</b>													
<b>ATMOSPHERIC &amp; HYDROLOGICAL SCIENCES<sup>9</sup></b>					<b>GEOMATICS<sup>10</sup></b>					<b>PHYSICAL GEOGRAPHY<sup>13</sup></b>			
GEOG 3310						GEOG 3200				GEOG <sup>14</sup>			
GEOG 3320						GEOG 4200				GEOG 3760			
GEOG 3390										GEOG <sup>14</sup>			
GEOG 4300										GEOG <sup>14</sup>			
GEOG 4310/SOIL 3060													
GEOG 4390													
GEOG 4560													
Appropriate selection from:	MATH 2090					STAT 3000 <sup>11</sup>				GEOG 2390			
	MATH 2160					STAT 3490				GEOG 2500			
	MATH 2720					GEOG 2060				GEOG 2520			
	PHYS 2210					PHYS 2270				GEOG 2530			
	PHYS 2260					GEOG 3770 <sup>12</sup>				GEOG 3490			
	PHYS 2270					MATH 2300				SOIL 3600			
	PHYS 2350					MATH 2720				BIOL 2300			
	BIOL 2300					MATH 2730							
SOIL 3600													

**COMMENTS:**

Total Credit Hours Degree Requirement: \_\_\_\_\_

Total Credit Hours Completed: \_\_\_\_\_

Remaining Credit Hours to Complete: \_\_\_\_\_

**ELIGIBILITY FOR GRADUATION:** \_\_\_\_\_

Last Updated: \_\_\_\_\_

**\*\*In the event of a discrepancy between this summary and the General Calendar, the General Calendar shall prevail.\*\***

While advisors confer with students about courses and educational experiences, students are responsible for defining the content of their academic program, being aware of all graduation requirements, and making progress toward an academic degree. Advisors will assist students in designing an appropriate course of study that will satisfy requirements for graduation as well as offer information on particular courses and University rules and procedures. This does not replace conferring with your academic advisor.

 For any concerns or queries, please book a meeting with an academic advisor or email [Riddell.Advisor@umanitoba.ca](mailto:Riddell.Advisor@umanitoba.ca).

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### PROGRAM NOTES:

Course which fulfills the Written English ('W') requirement: \_\_\_\_\_

Physical Geography CGPA: 2.00 on all courses constituting the degree

1. PHYS 1050 and PHYS 1070 may be used in lieu of PHYS 1020 and PHYS 1030, respectively.
2. MATH 1230, MATH 1510, or MATH 1520 may be used in lieu of MATH 1500; or MATH 1690 may be used in place of MATH 1500 (or equivalent) and MATH 1700; or MATH 1310 may be used in lieu of MATH 1300; or MATH 1232 or MATH 1710 may be used in lieu of MATH 1700.
3. The former GEOG 2440 may be used in lieu of GEOG 2272.
4. The former GEOG 2530 may be used in lieu of ENVR 2810.
5. The former GEOG 3680 may be used in lieu of GEOG 3810.
6. The former CHEM 1300 and 1310 may be used in lieu of CHEM 1100, CHEM 1110 and CHEM 1120. CHEM 1122 and CHEM 1126 may be used in lieu of CHEM 1120.
7. STAT 1150 may be used in lieu of STAT 1000.
8. BIOL 1000 and BIOL 1010 may be used in lieu of BIOL 1020 and BIOL 1030.
9. Consider taking GEOG 4670: Severe Thunderstorms – Storm Chasing and Field Techniques.
10. Consider taking ENVR/GEOG 4050, ENVR/GEOG 4060, BIOL 3310, BIOL 4312, CIVL 2840, SOIL 3610 or SOC 4570.
11. STAT 3120 may be used in lieu of STAT 3000.
12. Topics courses - topics vary each term and must be suitable to the stream, consult with an academic advisor.
13. Additional courses towards meeting the Stream requirement are available in consultation with an academic advisor.
14. 9 credit hours of Physical Geography courses at 3000 level or above.

\*Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified course identified in the degree program chart.

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