

GEOGRAPHY - MAJOR (SCIENCE) - BACHELOR OF **SCIENCE (HONOURS)**

6.00

GPHY-M-BSH

Subject: Administered by the Department of Geography and

Plan: Consists of 72.00 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.00 units, will lead to a Bachelor of Science (Honours) Degree.

Code 1. Core	Title	Units
A. Complete 6	5.00 units from the following:	6.00
GPHY 101	Human Geography	
or BADR	100hinking Locally	
and		
GPHY 102	Physical Geography and Natural Resources	
B. Complete t	he following:	
GPHY 207	Principles Of Biogeography	3.00
GPHY 208	Surface Processes, Landforms, and Soils	3.00
GPHY 209	Weather and Climate	3.00
C. Complete t	the following:	
GEOL 200	Oceanography	3.00
D. Complete t	the following:	
GPHY 247	Introduction to Statistics	3.00
E. Complete 3	3.00 units from the following:	3.00
GPHY 242	Remote Sensing I: Remote Sensing of the Environment	9
GPHY 243	Geographic Information Science	
F. Complete t	he following:	
GPHY 415	Advanced Analysis of Earth Surface Processes	6.00
2. Option		
A. Complete 6	5.00 units from the following course list	: 6.00
GPHY_Hum	an at the 200-level or above	
B. Complete 1	12.00 units from the following:	12.00
GPHY_Physi	ical at the 300-level or above	
GPHY_Tech/	Methods at the 300-level or above	

A. Complete 6.00 units from the following:	6.00
MATH at the 100-level or above	
STAT at the 100-level or above	
B. Complete 6.00 units from the following:	6.00
CHEM at the 100-level or above	
PHYS at the 100-level or above	
Electives	
Elective Courses	48.00
Total Units	120.00

4. Notes

A. A maximum of 6.00 units from courses offered by other Faculties and Schools may be counted toward the program and/or Plan requirements. This includes courses in BMED, COMM, GLPH, HSCI, LAW, NURS, and courses in the Faculty of Engineering and Applied Science.

Geography Course Lists

The following lists contain courses offered through other Departments. In accordance with Academic Regulation **2.6** (Access to Classes), students do not have enrolment priority in all of these courses. Access to these courses may only be made available during the Open Enrolment period, and then only if space permits.

ASC_Science_Excluding_GPHY

Code	Title	Units
Natural and F Courses	Physical Science Courses, no GPHY	
ANAT		
ASTR		
BCHM		
BIOL		
BIOM		
BMED 384	Integrative Laboratory Course	3.00
BMED 470	Principles of 'Omics'	3.00
BMED 480	Clinical Applications of Human Anatomy	3.00
CANC		
CHEE 209	Analysis Of Process Data	3.50
CHEM		
CISC		
COGS		
COMM 162	Managerial Statistics	3.00

GPHY_Physical **GPHY Tech/Methods**

3. Supporting

C. Complete 6.00 units from the following:

D. Complete 6.00 units from the following course list: 6.00 ASC_Science_Excluding_GPHY at the 200-level or above



COMP		
CRSS		
DDHT		
ECON 250	Introduction to Statistics	3.00
ENSC 201	Environmental Toxicology and Chemical Risks	3.00
ENSC 301	Environmental Assessment	3.00
ENSC 307	Marine Environmental Issues	3.00
ENSC 320	Wildlife Issues in a Changing World	3.00
ENSC 407	Global Water Issues	3.00
ENSC 425	Ecotoxicology	3.00
ENSC 471	Environmental Analysis Methods	3.00
ENSC 480	Special Topics in Environmental Science	3.00
EPID		
GEOL		
GLPH 472	Special Populations: Neonatal to End-of- Life-Care	3.00
HLTH 230	Basic Human Nutrition	3.00
HLTH 331	Advanced Human Nutrition	3.00
KNPE 125	Introduction to Human Physiology	3.00
KNPE 153	Introductory Biomechanics	3.00
KNPE 225	Advanced Human Physiology	3.00
KNPE 227	Exercise Physiology	3.00
KNPE 251	Introduction to Statistics	3.00
KNPE 254	Biomechanical Analysis of Human Movement	3.00
KNPE 255	Physical Activity, Fitness, and Health	3.00
KNPE 261	Theory of Motor Behaviour and Motor Learning	3.00
KNPE 327	Exercise Physiology Laboratory	3.00
KNPE 339	Advanced Exercise Metabolism	3.00
KNPE 354	Occupational Biomechanics and Physical Ergonomics	3.00
KNPE 355	Lifestyle and Cardiometabolic Assessmer Laboratory	ාපි.00
KNPE 339	Advanced Exercise Metabolism	3.00
KNPE 425	Physiology of Stress	3.00
KNPE 429	Skeletal Muscle Oxygen Delivery: Demand Matching in Exercise	d3.00
KNPE 439	Critical Appraisal and Translation of Muscle Physiology Research	3.00
KNPE 450	Ergonomics	3.00
KNPE 454	Clinical Biomechanics	3.00
KNPE 455	Advanced Physical Activity and Health	3.00
KNPE 459	Clinical Exercise Physiology	3.00
KNPE 493	Special Topics in Kinesiology	3.00

LISC		
MATH		
MICR		
NSCI		
NURS 323	Introduction to Statistics	3.00
NURS 324	Research in Nursing	3.00
PATH		
PHAR		
PHGY		
PHYS		
POLS 285	Introduction to Statistics	3.00
PSYC 100	Principles of Psychology	6.00
PSYC 101	Principles of Psychology I	3.00
PSYC 102	Principles of Psychology II	3.00
PSYC 103	Principles of Psychology III	3.00
PSYC 202	Statistics in Psychology	3.00
PSYC 203	Research Methods in Psychology	3.00
PSYC 221	Cognitive Psychology	3.00
PSYC 271	Brain and Behaviour I	3.00
PSYC 299	Introduction to Directed Research in Psychology	3.00
PSYC 301	Advanced Statistical Inference	3.00
PSYC 302	Advanced Research Methods	3.00
PSYC 450	Advanced Topics in Developmental Psychology	3.00
PSYC_Cognitive	e Course List	
PSYC_Behaviou	uralNeuroscience Course List	
REPD		
SOCY 210	Social Research Methods	3.00
SOCY 211	Introduction to Statistics	3.00
SOFT		
STAM		
STAT		

GPHY_Human

Code	Title	Units
Human Geog	raphy	
GPHY 101	Human Geography	3.00
GPHY 227	Cities: Geography, Planning and Urban	Life.00
GPHY 228	Geographies of the Global Political Economy	3.00
GPHY 229	Place, Space, Culture and Social Life	3.00
GPHY 230	Introduction to Urban and Regional Planning	3.00
GPHY 250	The Geography of Canada	3.00
GPHY 254	The Caribbean in Globalizing World	3.00



GPHY 257	The Geography of Middle America	3.00	GPHY 305	Applied Cold Regions Science	3.00
GPHY 258	The Geography of South America	3.00	GPHY 306	Natural Environmental Change	3.00
GPHY 309	Field School in Geography	3.00	GPHY 309	Field School in Geography	3.00
GPHY 319	Contemporary Energy Resources	3.00	GPHY 310	Landscape Ecology	3.00
GPHY 320	Energy and Society	3.00	GPHY 311	Biogeochemical Processes	3.00
GPHY 325	Maps and Society	3.00	GPHY 312	Watershed Hydrology	3.00
GPHY 327	The Geographical Imagination	3.00	GPHY 313	Glacier Processes and Dynamics	3.00
GPHY 330	Transportation Geography	3.00	GPHY 314	Climate Change	3.00
GPHY 332	Cities and Planning for Sustainable Development	3.00	GPHY 315	Advanced Field Measurements and Thei Analysis	r 3.00
GPHY 333	Markets, Environments and Societies	3.00	GPHY 317	Soil, Environment, and Society	3.00
GPHY 334	Geographies of Growth and Decline	3.00	GPHY 318	Advanced Biogeography	3.00
GPHY 336	Geography, the Environment and Huma	n 3.00	GPHY 319	Contemporary Energy Resources	3.00
	Health		GPHY 320	Energy and Society	3.00
GPHY 337	Regional Development and Planning	3.00	GPHY 371	Special Topics in Earth System Science	3.00
GPHY 338	Urban Political Geography	3.00	GPHY 413	Water, Energy and Carbon Cycling in the	3.00
GPHY 339	Medical Geography	3.00		Biosphere	
GPHY 351	Geographies of Indigenous and Settler Relations	3.00	GPHY 415	Advanced Analysis of Earth Surface Processes	6.00
GPHY 352	Gender and the City	3.00	GPHY 417	Land-Use Change in the Earth System	3.00
GPHY 362	Human Migration	3.00	GPHY 501	Special Studies in Geography	3.00
GPHY 365	Geography, Development, and	3.00	GPHY 502	Research and Thesis in Geography I	3.00
	Environment in the 'Third World'		GPHY 503	Research and Thesis Geography II	6.00
GPHY 368	Environments and Society	3.00	CDUV Too		
GPHY 368 GPHY 369	Urban Natures	3.00		h/Methods	11
	Urban Natures Special Topics in Human Geography	3.00	Code	h/Methods Title	Units
GPHY 369	Urban Natures	3.00	Code Techniques,	h/Methods Title Research Methods and Geographic	Units
GPHY 369 GPHY 370	Urban Natures Special Topics in Human Geography	3.00 3.00 I 3.00	Code Techniques, Information	h/Methods Title Research Methods and Geographic Science	
GPHY 369 GPHY 370 GPHY 401	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography	3.00 3.00 I 3.00 II 3.00	Code Techniques,	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and	Units 3.00
GPHY 369 GPHY 370 GPHY 401 GPHY 402 GPHY 403 GPHY 501	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Special Studies in Geography	3.00 3.00 I 3.00 II 3.00	Code Techniques, Information GPHY 105	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and Earth Observation	3.00
GPHY 369 GPHY 370 GPHY 401 GPHY 402 GPHY 403	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography	3.00 3.00 I 3.00 II 3.00 III3.00	Code Techniques, Information	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and Earth Observation Introduction to Qualitative Methods in	
GPHY 369 GPHY 370 GPHY 401 GPHY 402 GPHY 403 GPHY 501 GPHY 502 GPHY 503	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Special Studies in Geography	3.00 3.00 I 3.00 II3.00 III3.00 3.00 3.00 6.00	Code Techniques, Information GPHY 105	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and Earth Observation Introduction to Qualitative Methods in Geography	3.00
GPHY 369 GPHY 370 GPHY 401 GPHY 402 GPHY 403 GPHY 501 GPHY 502	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Special Studies in Geography Research and Thesis in Geography I	3.00 3.00 I 3.00 II3.00 III3.00 3.00	Code Techniques, Information GPHY 105 GPHY 240	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and Earth Observation Introduction to Qualitative Methods in	3.00
GPHY 369 GPHY 370 GPHY 401 GPHY 402 GPHY 403 GPHY 501 GPHY 502 GPHY 503 IDIS 302	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Special Studies in Geography Research and Thesis in Geography I Research and Thesis Geography II Race and Racism	3.00 3.00 I 3.00 II3.00 III3.00 3.00 3.00 6.00	Code Techniques, Information GPHY 105 GPHY 240	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and Earth Observation Introduction to Qualitative Methods in Geography Remote Sensing I: Remote Sensing of th	3.00
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GPHY 369 GPHY 370 GPHY 401 GPHY 402 GPHY 403 GPHY 501 GPHY 502 GPHY 503 IDIS 302 GPHY_Phy Code Physical Geo GPHY 102 GPHY 203 GPHY 204 GPHY 207	Urban Natures Special Topics in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Honours Seminar in Human Geography Special Studies in Geography Research and Thesis in Geography I Research and Thesis Geography II Race and Racism Sical Title graphy Physical Geography and Natural Resources Water Resources and Management Forests as a Global Resource Principles Of Biogeography	3.00 3.00 I 3.00 II 3.00 III 3.00 3.00 3.00 3.00 Units 3.00 3.00 3.00 3.00	Code Techniques, Information GPHY 105 GPHY 240 GPHY 242 GPHY 243 GPHY 247 GPHY 315 GPHY 341 GPHY 342 GPHY 343	h/Methods Title Research Methods and Geographic Science The Digital Earth: Geospatial Data and Earth Observation Introduction to Qualitative Methods in Geography Remote Sensing I: Remote Sensing of the Environment Geographic Information Science Introduction to Statistics Advanced Field Measurements and Their Analysis Photogrammetry Remote Sensing II: Digital Image Processing Applications for Geospatial Technology for Business	3.00 3.00 3.00 3.00 3.00 7 3.00 3.00 3.00



GPHY 347 Multivariate and Spatial Statistics 3.00 GPHY 348 Application Design and Customization in 3.00
GPHY 348 Application Design and Customization in 3.00
GIS
GPHY 349 GIScience and Public Health 3.00
GPHY 372 Special Topics Geographic Information 3.00 Science
GPHY 501 Special Studies in Geography 3.00
GPHY 502 Research and Thesis in Geography I 3.00
GPHY 503 Research and Thesis Geography II 6.00