



Professional Engineers
and Geoscientists of BC
www.apeg.bc.ca

Geoscience Course Equivalent List New Syllabus

**Please note: Information on Malaspina University – College course equivalents can be found at the end of the document.

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**ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF B.C.
GEOSCIENCE 'NEW' SYLLABUS - COURSE EQUIVALENTS**

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COMMON TO ALL GEOSCIENTISTS – 06-GEOCOM- FUNDAMENTAL SCIENCE (3 OF 4 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC- O
FS-A1	CALCULUS (2 SEMESTERS)	MATH 151 & 152 OR 154 & 155	MATH 100 & 101, 103 OR 120 & 121	MATH 100 & 101	MATH 100 & 101	MATH 112 & 122
FS-A2	PHYSICS (2 SEMESTERS)	PHYS 101 & 102 & 130 OR PHYS 120 & 121 & 131	PHYS 101 & 102	PHYS 110 & 111	PHYS 102,112	PHYS 112 & 122 OR PHYS 111 & 121
FS-A3	CHEMISTRY (2 SEMESTERS)	CHEM 121 & 122 OR CHEM 122 & 126	CHEM 111 & 113	CHEM 100 & 101 & 120 & 121 Labs	CHEM 101&102	CHEM 112 & 122 OR CHEM 111 & 121
FS-A4	BIOLOGY (2 SEMESTERS)	BISC 101&102	BIOL 121&140	BIOL 101&102	BIOL 150A&150B OR BIOL 190A&190B	BIOL 116&125

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COMMON TO ALL GEOSCIENTISTS – 06-GEOCOM- COMPULSORY (3 OF 3 REQUIRED)						
COM-A1	INTRODUCTION TO MINERALOGY / PETROLOGY	EASC 202&205	EOSC 220&221	n.e.c.	EOS 205	EESc 200&201
COM-A2	INTRODUCTION TO SEDIMENTATION & STRATIGRAPHY	EASC 201	EOSC 320	n.e.c.	EOS 201	EESc 356
COM-A3	INTRODUCTION TO STRUCTURE & TECTONICS	EASC 204	EOSC 323	GEOG 498	EOS 202	EESC 325

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COMMON TO ALL GEOSCIENTISTS - 06-GEOCOM- ELECTIVES (3 OF 8 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
COM-B1	INTERMEDIATE MATHEMATICS	Any 200 Level MATH or Higher	Any 200 Level MATH or Higher	Any 200 Level MATH or Higher	Any 200 Level MATH or Higher	Any 200 Level MATH or Higher
COM-B2	INTERMEDIATE CHEMISTRY	Any 200 Level CHEM or Higher	Any 200 Level CHEM or Higher	Any 200 Level CHEM or Higher	Any 200 Level CHEM or Higher	Any 200 Level CHEM or Higher
COM-B3	INTERMEDIATE PHYSICS	Any 200 Level PHYS or Higher	Any 200 Level PHYS or Higher	Any 200 Level PHYS or Higher	Any 200 Level PHYS or Higher	Any 200 Level PHYS or Higher
COM-B4	INTRODUCTION OR INTERMEDIATE BIOLOGY	Any 100 Level BISC or Higher	Any 100 Level BIOL or Higher	Any 100 Level BIOL or Higher	Any 100 Level BIOL or Higher	Any 100 Level BIOL or Higher
COM-B5	INTRODUCTION TO COMPUTING	Any 100 Level CMPT or Higher	ANY 100 Level CPSC or Higher	ANY 100 Level CPSC or Higher	ANY 100 Level CPSC or Higher	Any 100 Level CoSc or Higher
COM-B6	ECONOMICS	Any 100 Level ECON or Higher OR GEOG 221	Any 100 Level ECON or Higher	Any 100 Level ECON or Higher	Any 100 Level ECON or Higher	Any 100 Level ECON or Higher
COM-B7	PROBABILITY AND STATISTICS	STAT 101, 201, 270	STAT 200, 241, 251	MATH 340, 341, 342	STAT 260, GEOG 226	STAT 121,230, BIOL 304
COM-B8	TECHNICAL WRITING	ENSC 101	ENGL 301	ENGL 170, NRES 100	ENGL 225, ENGL 301	ENGL 301

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SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 06-EG - COMPULSORY (6 OF 7 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
EG -A1	INTRODUCTION TO GEOMORPHOLOGY	GEOG 213	EOSC 330, GEOG 306	GEOG 210	GEOG 376	GEOG 222 , EESc 222
EG -A2	INTRODUCTION TO GEOCHEMISTRY	EASC 208	EOSC 327	n.e.c.	EOS 240	EESc 323
EG -A3	INTRODUCTION TO HYDROLOGY	GEOG 311	GEOG 205, CIVL 418, EOSC 329	GEOG 310	GEOG 370	GEOG 205, EESc 205
EG -A4	QUATERNARY GEOLOGY	EASC 403, GEOG 412	GEOG 308	GEOG 411	EOS 450	EESC 431
EG -A5	INTRODUCTION TO SOIL SCIENCE	GEOG 317	SOIL 200	FSTY 205	GEOG 379	EESc 456
EG -A6	INTRODUCTION TO APPLIED GEOPHYSICS	EASC 207	EOSC 252, 350, 351	n.e.c.	EOS 480	EESc 350
EG -A7	HYDROGEOLOGY	EASC 304	EOSC 329	ENSC 451	EOS 440	EESc 342
SPECIFIC TO ENVIRONMENTAL GEOSCIENCE – 06 EG – COMPULSORY (1 OF 1 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O(OUC)
EG -B1	FIELD WORK	EASC 206 & 306 OR EASC 406	GEOG 309, EOS 223, 328, OR 428	GEOG 333	GEOG 325, 477, EOS 300	EESc 335 with one of : EESc 435, EESc 437, GEOG 416

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GEOSCIENCE 'NEW' SYLLABUS - COURSE EQUIVALENTS**

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SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 06-EG - ELECTIVES (9 OF 25 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
EG -C1	ADVANCED GEOMORPHOLOGY I	GEOG 313	GEOG 308	GEOG 311	GEOG 476	EESc 435
EG -C2	ADVANCED GEOMORPHOLOGY II	GEOG 412, 413	GEOG 405, 406, 408	n.e.c.	GEOG 478	n.e.c.
EG -C3	APPLIED GEOMORPHOLOGY	EASC 303	n.e.c.	GEOG 498	GEOG 377	EESc 437
EG -C4	ANALYTICAL GEOCHEMISTRY	n.e.c.	EOSC 325	n.e.c.	n.e.c.	EESc 333
EG -C5	ANALYTICAL HYDROLOGY	GEOG 411	EOSC 428	n.e.c.	n.e.c.	EESc 413
EG -C6	GROUNDWATER CONTAMINATION	EASC 410	EOSC 429	ENSC 308	n.e.c.	n.e.c.
EG -C7	FLUID MECHANICS	EASC 409	PHYS 314, CIVL 215, MECH 280	ENSC 350	PHYS 426, MECH 345	PHYS 314
EG -C8	SOIL MECHANICS	EASC 313	CIVL 210	n.e.c.	n.e.c.	n.e.c.
EG -C9	ROCK MECHANICS	EASC 313	MINE 303	n.e.c.	n.e.c.	n.e.c.
EG -C10	ENGINEERING GEOLOGY	EASC 413	EOSC 433, 434	n.e.c.	n.e.c.	n.e.c.

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
EG -C11	PALEONTOLOGY INTERPRETATION METHODS	GEOG 415, BISC 434	EOSC 425	n.e.c.	n.e.c.	EESc 341
EG -C12	SEDIMENTOLOGY	EASC 402	EOSC 421	n.e.c.	n.e.c.	n.e.c.
EG -C13	ADVANCED MINERALOGY	n.e.c.	EOSC 325, 520	n.e.c.	n.e.c.	EESc 401
EG -C14	ADVANCED GEOPHYSICS	EASC 307, 317, 417	300 plus LEVEL	n.e.c.	EOS 427, PHYS 427	n.e.c.
EG -C15	GEOPHYSICAL HAZARD EVALUATION	GEOG 312	GEOG 404	n.e.c.	n.e.c.	GEOG 416
EG -C16	INTRODUCTION TO ECOSYSTEMS	GEOG 315, BISC 204	GEOG 207	BIOL 110	BIOL 215	BIOL 203
EG -C17	WEATHER AND CLIMATE	GEOG 214	GEOG 300	ENSC 408	GEOG 372,373, EOS 340	GEOG 200
EG -C18	GEOSCIENCE COMPUTER APPLICATIONS	GEOG 352, 451	EOSC 211	n.e.c.	CSC 242	n.e.c.
EG -C19	GEOGRAPHIC SPATIAL ANALYSIS	GEOG 255	GEOG 270	GEOG 300	GEOG 228, 308, 326, 328	GEOG 370

SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 06-EG - ELECTIVES (9 OF 25 REQUIRED)

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
EG -C20	REMOTE SENSING OF THE EARTH'S SURFACE	GEOG 353	GEOG 373	GEOG 432	GEOG 228, 319, 322	GEOG 272
EG -C21	AIR PHOTO INTERPRETATION	GEOG 253	GEOG 373	GEOG 205	GEOG 222	GEOG 272
EG -C22	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
EG -C23	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
EG -C24	THESIS IN GEOSCIENCE-Topic must be geoscience, not bioscience or chemistry	GEOG 491, EASC 499	EOSC 447, 449	ENSC 430, GEOG 430	GEOG 499, EOS 499	EESc 449, GEOG 498
EG-C25*	EG-A1, A2, A3, A4, A5, A6, A7 not used above	See above	See above	See above	See above	See above

*Candidates who have taken all the courses in 01-EG - COMPULSORY (6 OF 7 REQUIRED) can use the extra course here

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SPECIFIC TO GEOLOGY - 06-GL - COMPULSORY (6 OF 7 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GL-A1	INTRODUCTION TO GEOMORPHOLOGY	GEOG 213	EOSC 330, GEOG 306	GEOG 210	GEOG 376	GEOG 222, EESc 222
GL-A2	INTRODUCTION TO GEOCHEMISTRY	EASC 208	EOSC 327	n.e.c.	EOS 240	EESc 323
GL-A3	INTRODUCTION TO APPLIED GEOPHYSICS	EASC 207	EOSC 252,350,351	n.e.c.	EOS 480	EESc 350
GL-A4	INTRODUCTION TO PALEONTOLOGY	EASC 310	EOSC 222&425	n.e.c.	EOS 330	EESc 341
GL- A5/ GL- A6 ANY TWO OF	IGNEOUS PETROLOGY	EASC 301	EOSC 321	n.e.c.	EOS 310	EESc 322
	METAMORPHIC PETROLOGY	EASC 301	EOSC 322	n.e.c.	EOS 320	EESc 322
	SEDIMENTARY PETROLOGY	EASC 302	EOSC 421	n.e.c.	n.e.c.	n.e.c.
GL-A7	REGIONAL GEOLOGY	EASC 309	EOSC 332	n.e.c.	EOS 410	n.e.c.
SPECIFIC TO GEOLOGY – 06 GL – COMPULSORY (1 OF 1 REQUIRED)						
GL-B1	FIELD WORK	EASC 206 & 306 OR 406	EOSC 223 & 328	GEOG 333	EOS 300 & 400	EESs 335 and one of EEsc 435, 437

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SPECIFIC TO GEOLOGY - 06-GL - ELECTIVES (9 OF 31 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GL-C1	ADVANCED MINERALOGY	n.e.c.	EOSC 520	n.e.c.	n.e.c.	EESc 401
GL-C2	IGNEOUS GEOLOGY	EASC 620	EOSC 420, 530	n.e.c.	n.e.c.	n.e.c.
GL-C3	METAMORPHIC GEOLOGY	EASC 608	EOSC 534	n.e.c.	n.e.c.	n.e.c.
GL-C4	SEDIMENTARY GEOLOGY	EASC 402, 611	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GL-C5	ADVANCED STRUCTURE & TECTONICS	EASC 404	EOSC 422	n.e.c.	n.e.c.	n.e.c.
GL-C6	ADVANCED GEOMORPHOLOGY	GEOG 313, 412, 413	GEOG 308, 405, 406, 408	GEOG 311	GEOG 476	EESc 435
GL-C7	ADVANCED PALEONTOLOGY	BISC 434	EOSC 425	n.e.c.	EOS 506	n.e.c.
GL-C8	ADVANCED GEOCHEMISTRY	EASC 412	n.e.c.	n.e.c.	EOS 425, 430, EOS 504	EESc 423
GL-C9	ADVANCED GEOPHYSICS	EASC 307, 317, 417	EOSC 400 LEVEL OR HIGHER	n.e.c.	n.e.c.	n.e.c.

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GL-C10	MINERAL DEPOSITS	EASC 401	EOSC 331	n.e.c.	EOS 420	EESc 360
GL-C11	ORE PETROLOGY	n.e.c.	EOSC 424	n.e.c.	n.e.c.	n.e.c.
GL-C12	MINING EVALUATION	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GL-C13	PETROLEUM GEOLOGY	EASC 420	EOSC 432	n.e.c.	EOS 422	n.e.c.
GL-C14	RESERVOIR EVALUATION	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GL-C15	COAL GEOLOGY	n.e.c.	EOSC 432, 528	n.e.c.	n.e.c.	n.e.c.
GL-C16	INDUSTRIAL MATERIALS	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GL-C17	QUATERNARY GEOLOGY	EASC 403, GEOG 412	GEOG 308	GEOG 411	EOS 450	EESc 431

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SPECIFIC TO GEOLOGY - 06-GL - ELECTIVES (9 OF 31 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GL-C18	HYDROGEOLOGY	EASC 304	EOSC 329	ENSC 451	EOS 440	EESc 342
GL-C19	GROUNDWATER CONTAMINATION	EASC 410	EOSC 429	ENSC 308	n.e.c.	n.e.c.
GL-C20	MARINE GEOLOGY	n.e.c.	EOSC 426	n.e.c.	EOS 408, 508, EOS/BIOLOG 311	n.e.c.
GL-C21	INTRODUCTION TO SOIL SCIENCE	GEOG 317	SOIL 200	FSTY 205	GEOG 379	EESc 456
GL-C22	ENGINEERING GEOLOGY	EASC 413	EOSC 434	n.e.c.	n.e.c.	n.e.c.
GL-C23	ENVIRONMENTAL GEOLOGY	EASC 303, 411	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GL-C24	GEOSCIENCE COMPUTER APPLICATIONS	GEOG 352, 451	EOSC 211	n.e.c.	CSC 242	n.e.c.

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GL-C25	GEOGRAPHIC/ SPATIAL DATA ANALYSIS	GEOG 255	GEOG 270	GEOG 300	GEOG 222, 308, 326, 328	GEOG 370
GL-C26	REMOTE SENSING OF THE EARTH'S SURFACE	GEOG 353	GEOG 373	GEOG 432	GEOG 228, 319, 322	GEOG 272
GL-C27	AERIAL PHOTO INTERPRETATION	GEOG 253	GEOG 373	GEOG 205	GEOG 222	GEOG 272
GL-C28	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
GL-C29	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
GL-C30	THESIS IN GEOSCIENCE	EASC 499	EOSC 447, 449	GEOG 430, ENSC 430	EOS 499	EESc 449
GL-31	GL-A1, A2, A3, A4, A5, A6, A7 not used above	See above	See above	See above	See above	See above

*Candidates who have taken all the courses in 01-GL - COMPULSORY (6 OF 7 REQUIRED) can use the extra course here

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SPECIFIC TO GEOCHEMISTRY - 06-GC - COMPULSORY (6 OF 7 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GC-A1	INTRODUCTION TO GEOCHEMISTRY	EASC 208	EOSC 327	n.e.c.	EOS 240	EESc 323
GC-A2	EXPLORATION GEOCHEMISTRY OR APPLIED GEOCHEMISTRY	n.e.c.	EOSC 525	n.e.c.	n.e.c.	n.e.c.
		EASC 410	EOSC 429	n.e.c.	EOS 425, 430	n.e.c.
GC-A3	ANALYTICAL GEOCHEMISTRY	n.e.c.	n.e.c.	n.e.c.	n.e.c.	EESc 333
GC-A4	HYDROGEOLOGY	EASC 304	EOSC 329	ENSC 451	EOS 440	EESc 342
GC-A5	INTRODUCTION TO GEOMORPHOLOGY	GEOG 213	GEOG 306, EOSC 330	GEOG 210	GEOG 376	GEOG 222, EESc 222
GC-A6	INTRODUCTION TO APPLIED GEOPHYSICS	EASC 207	EOSC 252, 350, 351	n.e.c.	EOS 480	EESc 350
GC-A7	INTRODUCTION TO SOIL SCIENCE	GEOG 317	SOIL 200	FSTY 205	GEOG 379	EESc 456

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SPECIFIC TO GEOCHEMISTRY - 06-GC - COMPULSORY (1 OF 1 REQUIRED)						
GC-B1	FIELD WORK	n.e.c.*	n.e.c.*	n.e.c.*	n.e.c.*	n.e.c.*

*Until there is an approved university field school course, APEGBC will consider appropriate field work, supervised by a professional geoscientist, as a substitute.

SPECIFIC TO GEOCHEMISTRY – 06-GC – ELECTIVES (9 OF 21 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GC-C1	IGNEOUS PETROLOGY	EASC 301	EOSC 321	n.e.c.	EOS 310	EESc 322
GC-C2	METAMORPHIC PETROLOGY	EASC 301	EOSC 322	n.e.c.	EOS 320	EESc 322
GC-C3	SEDIMENTARY PETROLOGY	EASC 302	EOSC 421	n.e.c.	n.e.c.	n.e.c.
GC-C4	MINERAL DEPOSITS	EASC 401	EOSC 331	n.e.c.	EOS 420	EESc 360
GC-C5	ORE PETROLOGY	n.e.c.	EOSC 424	n.e.c.	n.e.c.	n.e.c.
GC-C6	ADVANCED MINERALOGY	n.e.c.	EOSC 520	n.e.c.	n.e.c.	EESc 401

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GEOSCIENCE 'NEW' SYLLABUS - COURSE EQUIVALENTS**

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GC-C7	STATISTICAL INTERPRETATION OF GEOCHEMICAL DATA	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GC-C8	QUATERNARY GEOLOGY	EASC 403	GEOG 308	GEOG 411	EOS 450	EESc 431
GC-C9	PHYSICAL HYDROLOGY	GEOG 311	GEOG 205, CIVL 418	GEOG 310	GEOG 370	GEOG 205
GC-C10	GROUNDWATER CONTAMINATION	EASC 410	EOSC 429	ENSC 308	n.e.c.	n.e.c.
GC-C11	APPLIED GEOMORPHOLOGY	EASC 303, 408	n.e.c.	GEOG 498	GEOG 377	EESc 437
GC-C12	PEDOLOGY	GEOG 417	n.e.c.	FSTY 455	n.e.c.	n.e.c.
GC-C13	GEOGRAPHIC - SPATIAL DATA ANALYSIS	GEOG 255	GEOG 376	GEOG 300	GEOG 228, 308, 326, 328	GEOG 370
GC-C14	REMOTE SENSING OF THE EARTH'S SURFACE	GEOG 353	GEOG 373	GEOG 432	GEOG 228,319, 322	GEOG 272

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GC-C15	AIR PHOTO INTERPRETATION	GEOG 253	GEOG 373	GEOG 205	GEOG 222	GEOG 272
GC-C16	ADVANCED COURSE IN GEOCHEMISTRY	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE
GC-C17	ADVANCED COURSE IN GEOCHEMISTRY	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE	ANY UPPER LEVEL GEOCHEMISTRY COURSE
GC-C18	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
GC-C19	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
GC-C20	THESIS IN GEOSCIENCE	EASC 499	EOSC 447, 449	GEOG 430, ENSC 430	EOS 499	EESc 449
GC-C21	GC-A1, A2, A3, A4, A5, A6, A7 not used above	See above	See Above	See above	See above	See Above

*Candidates who have taken all the courses in 01-GC - COMPULSORY (6 OF 7 REQUIRED) can use the extra course here

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SPECIFIC TO GEOPHYSICS - 06-GP - COMPULSORY (6 OF 7 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GP-A1	EXPLORATION GEOPHYSICS	EASC 307	EOSC 252, 350	n.e.c.	EOS 480	n.e.c.
GP-A2	PHYSICS OF THE EARTH	n.e.c.	EOSC 110	n.e.c.	PHYS 210, EOS 470	n.e.c.
GP-A3	ELECTRICITY & MAGNETISM	PHYS 126	PHYS 301	PHYS 202	PHYS 216	PHYS 311
GP-A4	POTENTIAL FIELD THEORY	n.e.c.	EOSC 450	n.e.c.	n.e.c.	n.e.c.
GP-A5	PHYSICAL PROPERTIES OF GEOLOGICAL MATERIALS	n.e.c.	EOSC 252	n.e.c.	n.e.c.	n.e.c.
GP-A6	SEISMOLOGY	EASC 417	EOSC 353	n.e.c.	EOS 523	n.e.c.
GP-A7	TIME SERIES ANALYSIS	n.e.c.	EOSC 354	n.e.c.	PHYS 411	n.e.c.
SPECIFIC TO GEOPHYSICS – 06 GL – COMPULSORY (1 OF 1 REQUIRED)						
GP-B1	FIELD WORK	n.e.c. *	n.e.c.*	n.e.c. *	n.e.c. *	n.e.c. *

* Until there is an approved university field school course, APEGBC will consider appropriate field work, supervised by a professional geoscientist, as a substitute.

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SPECIFIC TO GEOPHYSICS - 06-GP - ELECTIVES (9 OF 22 REQUIRED)						
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GP-C1	ELECTRONICS	PHYS 326, ENSC 220	PHYS 209, EECE 263	PHYS 305	PHYS 214	n.e.c.
GP-C2	MECHANICS	PHYS 125	EOSC 352	PHYS 300	PHYS 431 OR PHYS 321 A & B	PHYS 216
GP-C3	HEAT & THERMODYNAMICS	PHYS 344	PHYS 203	PHYS 200	PHYS 317	PHYS 215
GP-C4	ELECTROMAGNETIC THEORY	PHYS 324	PHYS 401	PHYS 310	PHYS 326, 422	n.e.c.
GP-C5	APPLIED MATHEMATICS	MATH 310	MATH 316, PHYS 312	MATH 434	MATH 323	n.e.c.
GP-C6	NUMERICAL METHODS COMPUTING	n.e.c.	EOSC 211, CPSC 302	MATH 335	CSC 110	n.e.c.
GP-C7	ADVANCED APPLIED EXPLORATION GEOPHYSICS	n.e.c.	EOSC 454	n.e.c.	n.e.c.	n.e.c.
GP-C8	GEO-, PALAEO-, AND ROCK - MAGNETISM	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GP-C9	GEOPHYSICAL INTERPRETATION	n.e.c.	EOSC 550, 555	n.e.c.	n.e.c.	n.e.c.
GP-C10	ADVANCED SEISMOLOGY	EASC 607	EOSC 551, 561	n.e.c.	n.e.c.	n.e.c.
GP-C11	ADVANCED EARTH PHYSICS	n.e.c.	EOSC 453	n.e.c.	n.e.c.	n.e.c.

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC	UBC-O
GP-C12	NUCLEAR PHYSICS	n.e.c.	PHYS 473	n.e.c.	PHYS 314	PHYS 413
GP-C13	MARINE GEOPHYSICS	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
GP-C14	REMOTE SENSING OF THE EARTH'S SURFACE	GEOG 353	GEOG 373	GEOG 432	GEOG 228, 319, 322	GEOG 272
GP-C15	GEOPHYSICAL HAZARD EVALUATION	GEOG 312	GEOG 404	n.e.c.	n.e.c.	GEOG 416
GP-C16	GROUNDWATER CONTAMINATION	EASC 410	EOSC 429	ENSC 308	n.e.c.	n.e.c.
GP-C17	HYDROGEOLOGY	EASC 304	EOSC 329	ENSC 451	EOS 440	EESc 342
GP-C18	ADVANCED COURSE IN GEOPHYSICS	ANY UPPER LEVEL GEOPHYSICS COURSE	ANY UPPER LEVEL GEOPHYSICS COURSE	ANY UPPER LEVEL GEOPHYSICS COURSE	ANY UPPER LEVEL GEOPHYSICS COURSE	ANY UPPER LEVEL GEOPHYSICS COURSE
GP-C19	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
GP-C20	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
GP-C21	THESIS IN GEOSCIENCE	EASC 499	EOSC 447, 449	GEOG 430, ENSC 430	EOS 499	EESc 449

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GP-C22	GP-A2, A3, A6, A7 not used above	See above	See above	See above	See above	See above
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APEGBC COURSE EQUIVALENCE LIST FOR MALASPINA UNIVERSITY-COLLEGE

Only the Environmental Geoscience Stream has been evaluated to date

**Must be accompanied by the qualifier: "acceptable for credit in the Faculty of Science or Applied Science"*

SYLLABUS REQUIREMENT	MALASPINA COURSE EQUIVALENT
FUNDAMENTAL SCIENCE (3 OF 4 REQUIRED)	
06-FS -A1 Calculus.	MATH 121/122
06-FS -A2 Physics.	PHYS 111/112 or PHYS 121/122 <i>alternate is PHYS 122/216</i>
06-FS -A3 Chemistry	CHEM 111/112 or CHEM 121/122 <i>alternate is CHEM 111/112</i>
06-FS-A4 Biology	BIOL 121/122
COMPULSORY COURSES (3 OF 3 REQUIRED)	
06-COM –A1 Introduction to Mineralogy/Petrology	GEOL 200 (3) Mineralogy and Petrology I
06-COM –A2 Introduction to Sedimentation and Stratigraphy.	GEOL 201 (3) Stratigraphy and Sedimentology
06-COM –A3 Introduction to Structure and Tectonics.	GEOL 202 (3) Introduction to Earth Structures (Starts Jan 2007)
COMMON TO ALL GEOSCIENTISTS - ELECTIVE COURSES (3 of 8 Required)	
06-COM-B1. Intermediate Mathematics.	Any 200 level or higher Malaspina Math course.*
06-COM-B2. Intermediate Chemistry	Any 200 level or higher Malaspina Chemistry course.*

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06-COM-B3. Intermediate Physics.	Any 200 level or higher Malaspina Physics course.*
06-COM-B4. Introductory Biology.	Any 100 level or higher Malaspina Biology course.*
06-COM-B5. Introduction to Computing.	Any 100 level or higher Malaspina Computing course.
06-COM-B6. Economics	Any 200 level or higher Malaspina Economics course.
06-COM-B7. Probability and Statistics.	MATH 211 (3) Statistics I or MATH 212 (3) Statistics II <i>alternate is MATH172, MATH 161, and MATH 181</i>
06-COM-B8. Technical Writing	ENGL 225 (3) Business and Technical Writing (Starts May 2007)
SPECIFIC TO ENVIRONMENTAL GEOSCIENCE – 06-EG- COMPULSORY (6 of 7 Required)	
06-EG-A1. Introduction to Geomorphology.	GEOG 376 (3) Geomorphology
06-EG-A2. Introduction to Geochemistry.	GEOL 308 (3) Geochemistry
06-EG-A3. Introduction to Hydrology.	GEOG 374 (3) Hydrology
06-EG-A4. Quaternary Geology.	n.e.c.
06-EG-A5. Introduction to Soil Science.	FRST 151 (1.5) Forest Soils I and FRST 152 (1.5) Forest Soils II
06-EG-A6. Introduction to Applied Geophysics.	n.e.c.
06-EG-A7. Hydrogeology.	GEOL 304 (3) Hydrogeology
SPECIFIC TO ENVIRONMENTAL GEOSCIENCE – 06 EG – COMPULSORY (1 OF 1 REQUIRED)	
06-EG-B1. Field Work.	GEOL 206 (3) Field Geology and Geological Mapping

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SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 06-EG - ELECTIVES (9 REQUIRED – APEGBC LISTS 25 IN TOTAL)	
06-EG-C3. Applied Geomorphology.	n.e.c.
06-EG-C16. Introduction to Ecosystems.	GEOG 373 (3) Biogeography
06-EG-C17. Weather and Climate.	GEOG 372 (3) Climatology
06-EG-C19. Geographic and Spatial Data Analysis.	GEOG 328 or GEOG 428
06-EG-C20. Remote Sensing of the Earth's Surface.	GEOG 326 (3) Remote Sensing
06-EG-C21. Aerial Photo. Interpretation.	n.e.c.
06-EG-C22. Advanced Course in Geoscience.	GEOL 301 (3) Cave & Karst Landscapes and Systems or GEOL 300 (3) Igneous Processes or GEOL 312 (3) Environmental Geology
06-EG-C23. Advanced Course in Geoscience.	GEOL 470 (3) Earth Science Issues in British Columbia
06-EG-C24. Thesis in Geoscience.	n.e.c.
06-EG-C24. Thesis in Geoscience.	n.e.c.