

# ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF B.C.

## GEOSCIENCE SYLLABUS - COURSE EQUIVALENTS

**NOTE:** As this Equivalent Course List includes only some of those courses found to presently cover the material required, APEGBC Course Descriptions should be used as a more complete guide in allotting course equivalents. Courses not listed here will be evaluated to determine whether they meet the syllabus requirements. Courses must be acceptable for credit in a university faculty of science or applied science and syllabus topics may not necessarily be covered by a one-semester university course.. Candidates who wish to submit courses not listed as course equivalents for consideration for coverage of a syllabus topic must provide a detailed course outline with a completed self-assessment form. Only in exceptional circumstances will a one-semester course be considered for credit towards coverage of more than none syllabus topic.

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>COMMON TO ALL GEOSCIENTISTS - 94-GEOCOM- COMPULSORY (7 OF 7 REQUIRED)</b>					
A1	CALCULUS (2 SEMESTERS)	MATH 151, 152 OR 154, 155	MATH 100, 101 OR 120, 121	MATH 100, 101	MATH 100, 101
A2	PHYSICS (2 SEMESTERS)	PHYS 101, 102 OR 120, 121, 130 OR 131	PHYS 101, 102 OR 121, 122	PHYS 110, 111	PHYS 112
A3	CHEMISTRY (2 SEMESTERS)	CHEM 121,122 AND CHEM 126	CHEM 110 OR 121, 122 OR CHEM 111,112	CHEM 100, 101, 120, 121 Labs	CHEM 101, 102
A4	INTRODUCTION TO MINERALOGY	EASC 202	GEOL 200 OR EOSC 220		EOS 205
A5	INTRODUCTION TO PETROLOGY	EASC 205	GEOL 202 OR EOSC 221		EOS 310 OR 320
A6	INTRODUCTION TO SEDIMENTATION & STRATIGRAPHY	EASC 201	GEOL 256 OR 301 OR EOSC 320		EOS 201
A7	INTRODUCTION TO STRUCTURE & TECTONICS	EASC 204	GEOL 307 OR EOSC 323		EOS 202
<b>COMMON TO ALL GEOSCIENTISTS - 94-GEOCOM- ELECTIVES (3 OF 10 REQUIRED)</b>					
B1	ADVANCED CALCULUS	MATH 251	MATH 200	MATH 200	MATH 200 OR 205
B2	DIFFERENTIAL EQUATIONS & TRANSFORMS	MATH 310	MATH 215 OR 255	MATH 332	MATH 201
B3	LINEAR ALGEBRA & VECTORS	MATH 232 OR 252	MATH 221 OR MATH 223	MATH 220	MATH 233 A OR 233 B
B4	PROBABILITY & STATISTICS	STAT 101, 270, 301 OR 302	STAT 200, 241 OR 251	MATH 340 OR MATH 342 OR MATH 341	STAT 260
B5	INTRODUCTION TO COMPUTING	ANY COMPUTER LANGUAGE COURSE	ANY CPSC 100 LEVEL COURSE	ANY CPSC 100 LEVEL COURSE	ANY CPSC 100 LEVEL COURSE
B6	ECONOMICS	ECON 103, 105 OR 3RD YEAR ECON GEOG	ECON 100 OR ECON 309	ECON 101	ECON 100, 201, 305, OR 321
B7	BIOLOGY	BISC 101, 102, OR 204	BIOL 120 OR BIOL 115	BIOL 101	BIOL 150A
B8	INTERMEDIATE CHEMISTRY	CHEM 200 LEVEL OR ABOVE	CHEM 200 LEVEL OR ABOVE	CHEM 200 LEVEL OR ABOVE	CHEM 200 LEVEL OR ABOVE

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
B9	INTERMEDIATE PHYSICS	PHYS 200 LEVEL OR ABOVE	PHYS 200 LEVEL OR ABOVE	PHYS 200 LEVEL OR ABOVE	PHYS 200 LEVEL OR ABOVE
B10	TECHNICAL WRITING	ENCS 101 OR ENGL 199	ENG 301	ENGL 370	ENG 225 OR 240

NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 94-EG - COMPULSORY (6 OF 6 REQUIRED)</b>					
A1	INTRODUCTION TO GEOMORPHOLOGY	GEOG 213	GEOL 351 OR GEOG 306 OR EOSC 330	GEOG 210	GEOG 376
A2	GEOGRAPHIC & SPATIAL ANALYSIS	GEOG 354	GEOG 370 OR SOIL 417	GEOG 300	GEOG 328
A3	APPLIED GEOPHYSICS	EASC 207	GEOP232,300,301,231, OR 421 OR EOSC 251,252,350,351, OR 451		EOS 480
A4	QUATERNARY GEOLOGY	EASC 403 OR GEOG 412	GEOG 308	GEOG 411	EOS 450
A5	FIELD GEOLOGY	EASC 206 & EASC 306; OR EASC 406	GEOL 235, EOSC 223, GEOL 335, EOSC 328, GEOG 309 OR EOSC 428		EOS 300 OR GEOG 477
A6	PHYSICAL HYDROLOGY	GEOG 311	GEOG 205 OR CIVIL 418	GEOG 310	GEOG 370
<b>SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 94-EG -ELECTIVES ( 9 OF 27 REQUIRED)</b>					
B1	INTRODUCTION TO GEOCHEMISTRY	EASC 208	GEOL 323 OR EOSC 327		EOS 240
B2	SEDIMENTOLOGY	EASC 402	GEOL 406 OR EOSC 421		
B3	APPLIED GEOMORPHOLOGY	GEOG 411 EASC 303			GEOG 377
B4	ENGINEERING GEOLOGY		GEOL 462 OR EOSC 434		
B5	PALEO-ENVIRONMENTAL INTERPRETATION METHODS	BISC 434			
B6 A	ADVANCED GEOMORPHOLOGY	GEOG 313, 412, OR 413	GEOG 308, 405, 406, OR 408	GEOG 311 OR 405	GEOG 476

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B6 B	ADVANCED GEOMORPHOLOGY	GEOG 313, 412, OR 413	GEOG 308, 405, 406, OR 408	GEOG 311 OR 405	GEOG 476
B7	GEOPHYSICAL HAZARD EVALUATION	GEOG 212	GEOG 404		
B8	AERIAL PHOTO INTERPRETATION	GEOG 253	SOIL 442		GEOG 325
B9	ADVANCED GEOPHYSICS	EASC 317 OR 417 OR 307	ANY GEOP COURSE ABOVE 300		EOS 480 OR 470 OR PHYS 427
B10	REMOTE SENSING OF THE EARTH S SURFACE	GEOG 353	GEOG 373 OR SOIL 442 OR 443	GEOG 432	GEOG 322

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<b>SPECIFIC TO ENVIRONMENTAL GEOSCIENCE - 94-EG -ELECTIVES ( 9 OF 27 REQUIRED)</b>					
B11	FLUID MECHANICS	EASC 409	PHYS 314, CIVIL 215, OR MECH 280		MECH 345 OR PHYS 426
B12	WEATHER & CLIMATE	GEOG 214 OR GEOG 314	GEOG 300	ENVS 201	EOS 340. GEOG 372 OR GEOG 373
B13	ANALYTICAL HYDROLOGY				
B14	HYDROGEOLOGY	EASC 304	GEOL 342 OR EOSC 329		EOS 440
B15	GROUNDWATER CONTAMINATION	EASC 410	GEOL 442 OR EOSC 429		
B16	INTRODUCTION TO SOIL MECHANICS		FOREST OPS 363 OR CIVIL 310		
B17	ADVANCED SOIL MECHANICS		CIVIL 311		
B18	PEDOLOGY	GEOG 317	SOIL 416 OR SOIL 200		GEOG 379
B19	IDENTIFICATION & CLASSIFICATION OF SOILS	GEOG 417	SOIL 416	FSTY 425	GEOG 379
B20	INDUSTRIAL MINERALS				
B21	CLAY MINERALOGY				
B22	ROCK MECHANICS		MMPE 303		
B23	COMPUTER APPLICATIONS IN GEOSCIENCE				
B24 A	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
B24 B	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
B 25	THESIS IN GEOSCIENCE	EASC 499 OR GEOG 491	GEOL 449 OR GEOL 499 OR EOSC 449 OR EOSC 447	GEOG 430	EOS 499 OR GEOG 499

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>SPECIFIC TO GEOLOGY - 94-GL - COMPULSORY (5 OF 5 REQUIRED)</b>					
A1	INTRODUCTION TO GEOMORPHOLOGY	GEOG 213	GEOL 351 OR GEOG 306 OR EOSC 330	GEOG 210	GEOG 376
A2	INTRODUCTION TO GEOCHEMISTRY	EASC 208	GEOL 323 OR EOSC 327		EOS 240
A3	INTRODUCTION TO GEOPHYSICS	EASC 207	GEOP 232, 300 301,231 OR 421 OR EOSC 251,252,350,351, OR 451		EOS 480
A4	INTRODUCTION TO PALEONTOLOGY	EASC 203	GEOL 205 OR EOSC 222		EOS 330
A5	FIELD GEOLOGY	EASC 206 & EASC 306; OR EASC 406	GEOL 235, EOSC 223, GEOL 335, OR EOSC 328		EOS 300
<b>SPECIFIC TO GEOLOGY - 94-GL - ELECTIVES (5 OF 9 REQUIRED)</b>					
B1	ADVANCED MINERALOGY		GEOL 309 OR EOSC 325 OR GEOL 500 OR EOSC 520		
B2	ADVANCED IGNEOUS PETROLOGY	EASC 301 (this can only be used for EITHER B2 OR B3)	GEOL 302 OR EOSC 321 OR GEOL 533 OR EOSC 530		EOS 310
B3	ADVANCED METAMORPHIC PETROLOGY	EASC 301 (this can only be used for EITHER B2 OR B3)	GEOL 303 OR EOSC 322		EOS 320
B4	ADVANCED SEDIMENTARY GEOLOGY	EASC 302 OR 402	GEOL 406 OR EOSC 421		
B5	ADVANCED STRUCTURE & TECTONICS	EASC 309	GEOL 407 OR EOSC 422		
B6	ADVANCED GEOMORPHOLOGY	GEOG 313, 413, OR 412	GEOG 308, 405, 406, OR 408	GEOG 311 OR 405 OR 411	EOS 450
B7	ADVANCED PALEONTOLOGY	BISC 434	GEOL 421 OR EOSC 425		EOS 506 OR 507
B8	ADVANCED GEOCHEMISTRY	EASC 412	GEOL 438, 443 OR EOSC 427 OR EOSC 430 OR 325		EOS 425 OR 430

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B9	ADVANCED GEOPHYSICS	EASC 317 OR EASC 417 OR EASC 307	ANY GEOP COURSE ABOVE 300		EOS 480 OR 470 OR PHYS 427

NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>SPECIFIC TO GEOLOGY - 94-GL - ELECTIVES (5 OF 18 REQUIRED)</b>					
C1	MINERAL DEPOSITS	EASC 401	GEOL 368 OR 420 OR EOSC 331 OR 424		EOS 420
C2	ORE PETROLOGY		GEOL 428		
C3	MINING EVALUATION		GEOL 415 OR EOSC 423		
C4	PETROLEUM GEOLOGY		GEOL 446** OR EOSC 432**		
C5	RESERVOIR EVALUATION				
C6	COAL GEOLOGY		GEOL 446** OR EOSC 432**		
C7	INDUSTRIAL MATERIALS				
C8	HYDROGEOLOGY	EASC 304	GEOL 342 OR EOSC 329		EOS 440
C9	GROUNDWATER CONTAMINATION	EASC 410	GEOL 442 OR EOSC 429		
C10	MARINE GEOLOGY		GEOL 426 OR EOSC 426 OR GEOL 506		BIOL 311A OR EOS 508
C11	ENGINEERING GEOLOGY		GEOL 462 OR EOSC 434		
C12	ENVIRONMENTAL GEOLOGY	EASC 303			
C13	GEOLOGY OF NORTH AMERICA	EASC 408	GEOL 425 OR EOSC 332		
C14	GLOBAL GEOLOGY	EASC 309			EOS 410
C15	COMPUTER APPLICATIONS IN GEOLOGY		GEOL 415 OR EOSC 423		

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C16 A	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
C16 B	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
C17	THESIS IN GEOSCIENCE	EASC 499	GEOL 449 OR GEOL 499 OR EOSC 449 OR 447		EOS 499

\*\*APPLICABLE TO ONLY ONE OF 94-GL-C4, OR C6

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<b>SPECIFIC TO GEOCHEMISTRY - 94-GC- ELECTIVES (10 OF 11 REQUIRED)</b>					
A1	INTRODUCTION TO GEOMORPHOLOGY	GEOG 213	GEOG 351 OR GEOG 306 OR EOSC 330	GEOG 210	GEOG 376
A2	QUATERNARY & APPLIED GEOMORPHOLOGY	EASC 403 OR GEOG 412	GEOG 308	GEOG 411	EOS 450
A3	INTRODUCTION TO GEOCHEMISTRY	EASC 208	GEOL 323 OR EOSC 327		EOS 240
A4	ANALYTICAL GEOCHEMISTRY		GEOL 309 OR EOSC 325		
A5	STATISTICAL INTERPRETATION OF GEOCHEMICAL DATA		GEOL 415 OR EOSC 423		
A6	ADVANCED GEOCHEMISTRY	EASC 412	GEOL 438 OR 443 OR EOSC 427 OR EOSC 430 OR GEOL 523		EOS 403 OR 425 OR 430
A7	EXPLORATION GEOCHEMISTRY OR		GEOL 528 OR EOSC 525		
A8	APPLIED GEOCHEMISTRY	EASC 410	GEOL 442 OR EOSC 429		EOS 425 OR 430
A9	IDENTIFICATION & CLASSIFICATION OF SOILS	GEOG 417	SOIL 416	FSTY 425	GEOG 379
A10	IGNEOUS PETROLOGY	EASC 301	GEOL 302 OR EOSC 321		EOS 310
A11	SEDIMENTARY PETROLOGY	EASC 302 OR 402	GEOL 406 OR EOSC 421		EOS 210
<b>SPECIFIC TO GEOCHEMISTRY - 94-GC-ELECTIVES (4 OF 13 REQUIRED)</b>					
B1	HYDROGEOLOGY	EASC 304	GEOL 342 OR EOSC 329		EOS 440
B2	ADVANCED GEOMORPHOLOGY	GEOG 313, 413, OR 412	GEOG 308, 405, 406, OR 408	GEOG 311 OR 405	EOS 450 OR GEOG 377
B3	MINERAL DEPOSITS	EASC 401	GEOL 368 OR GEOL 420 OR EOSC 331 OR EOSC 424		EOS 420
B4	GROUNDWATER CONTAMINATION	EASC 410			



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B5	APPLIED GEOPHYSICS	EASC 207	GEOP 232,300, 301,231, OR 421 OR EOSC 251,252,350,351, OR 451		EOS 480

NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>SPECIFIC TO GEOCHEMISTRY - 94-GC-ELECTIVES (4 OF 13 REQUIRED)</b>					
B6	PHYSICAL HYDROLOGY	GEOG 311	GEOG 205 OR CIVIL 418	GEOG 310	GEOG 370
B7	REMOTE SENSING OF THE EARTH'S SURFACE	GEOG 353	GEOG 373, SOIL 443 OR SOIL 442	GEOG 413	GEOG 322
B8	CLAY MINERALOGY				
B9	ENVIRONMENTAL GEOLOGY	EASC 303			
B10	METAMORPHIC PETROLOGY	EASC 301	GEOL 303 OR EOSC 322		EOS 320
B11 A	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
B11 B	ADVANCED COURSE IN GEOSCIENCE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE	ANY UPPER LEVEL GEOSCIENCE COURSE
B12	THESIS IN GEOSCIENCE	EASC 499	GEOL 449 OR GEOL 499 OR EOSC 449 OR EOSC 447	GEOG 430	EOS 499
NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>SPECIFIC TO GEOPHYSICS 94-GP - COMPULSORY (6 OF 6 REQUIRED)</b>					
A1	EXPLORATION GEOPHYSICS	EASC 207	GEOP 301,232,300,231 OR 421 OR EOSC 251,252,350,351, OR 451		EOS 480
A2	PHYSICS OF THE EARTH		GEOP 230 OR EOSC 250		EOS 470
A3	ELECTRICITY & MAGNETISM	PHYS 221	PHYS 301 OR 311	PHYS 202, 310, 410	PHYS 216

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A4	GEOPHYSICS FIELD SCHOOL		GEOP 421 OR 422 OR EOSC 451 OR 452		
A5	POTENTIAL FIELD THEORY		GEOP 420 OR EOSC 450		
A6	PHYSICAL PROPERTIES OF GEOLOGICAL MATERIALS		GEOP 232 OR EOSC 252		
<b>SPECIFIC TO GEOPHYSICS 94-GP- ELECTIVES (5 OF 9 REQUIRED)</b>					
B1	ELECTRONICS	ENSC 220 OR PHYS 326	PHYS 209, 215 OR EECE 263	PHYS 305	PHYS 214
B2	SEISMOLOGY	EASC 417	GEOP 321 OR EOSC 353		EOS 523
B3	ADVANCED EARTH PHYSICS		GEOP 426 OR EOSC 453		
B4	ADVANCED MECHANICS	MATH 361	GEOP 320 OR EOSC 352		PHYS 431 OR PHYS 321 A&B
B5	HEAT & THERMODYNAMICS	PHYS 344	PHYS 203 OR 213		PHYS 317
B6	ELECTROMAGNETIC THEORY	PHYS 324	PHYS 401	PHYS 410	PHYS 326 OR 422
B7	TIME SERIES ANALYSIS IN GEOPHYSICS	ENSC 380	GEOP 322 OR EOSC 354		PHYS 411
B8	APPLIED MATHEMATICS	MATH 310	MATH 316 OR PHYS 312	MATH 431	MATH 323
B9	NUMERICAL METHODS/ COMPUTING	MATH 416 OR CMPT 101	CPSC 302		CSC 110

NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
<b>SPECIFIC TO GEOPHYSICS -94-GP- ELECTIVES (5 OF 12 REQUIRED)</b>					
C1	ADVANCED APPLIED EXPLORATION GEOPHYSICS		GEOP 421 OR GEOP 422 OR EOSC 451,452		
C2	GEOMAGNETISM, PALAEOMAGNETISM & ROCK MAGNETISM				
	PHYSICAL		GEOP 525 OR		

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NUMBER	DESCRIPTION	SFU	UBC	UNBC	UVIC
C3	PROPERTIES OF ROCKS & MINERALS		EOSC 559		
C4	GEOPHYSICAL INTERPRETATION		GEOP 507 OR GEOP 517 OR EOSC 550,555		

# ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF B.C.

## GEOSCIENCE SYLLABUS - COURSE EQUIVALENTS

**NOTE:** As this Equivalent Course List includes only some of those courses found to presently cover the material required, APEGBC Course Descriptions should be used as a more complete guide in allotting course equivalents. Courses not listed here will be evaluated to determine whether they meet the syllabus requirements. Courses must be acceptable for credit in a university faculty of science or applied science and syllabus topics may not necessarily be covered by a one-semester university course.. Candidates who wish to submit courses not listed as course equivalents for consideration for coverage of a syllabus topic must provide a detailed course outline with a completed self-assessment form. Only in exceptional circumstances will a one-semester course be considered for credit towards coverage of more than one syllabus topic.

If more than one course is listed and separated by a comma it means that either of the courses cover the syllabus topic material. n.e.c means that there is no course equivalent for the syllabus topic..

The Course Equivalent List and Syllabi may change without notice.

C5	ADVANCED SEISMOLOGY		GEOP 511 OR GEOP 527 OR EOSC 551,561		
C6	NUCLEAR PHYSICS		PHYS 414		PHYS 314
C7	ADVANCED ELECTRONICS		PHYS 309 OR PHYS 319		PHYS 425
C8	REMOTE SENSING OF THE EARTH'S SURFACE	GEOG 353	GEOG 373, SOIL 443 OR SOIL 442	GEOG 413	GEOG 322
C9	MARINE GEOPHYSICS				
C10 A	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
C 10 B	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
C11	THESIS IN GEOSCIENCE		GEOP 449 OR GEOP 499 OR EOSC 447		EOS 499