Geophysics Major Requirements (81)

Foundation	n Courses									
Foundation Courses CHEM 101 - Introductory University Chemistry I CHEM 102 - Introductory University Chemistry II EAS 105 - The Dynamic Earth Through Time GEOPH 110 - Introduction to Earth and Planetary Physics (See Note MATH 144 - Calculus for the Mathematical and Physical Sciences I MATH 146 - Calculus for the Mathematical and Physical Sciences II PHYS 144 - Newtonian Mechanics PHYS 181 - Relativity, Electricity and Magnetism 3 units from: MATH 125 - Linear Algebra I MATH 127 - Honors Linear Algebra I Senior Courses EAS 222 - Stratigraphy and Sedimentation EAS 233 - Geologic Structures GEOPH 325 - Geophysical Imaging of Earth's Interior GEOPH 326 - Seismic Imaging of Earth's Interior							Notes: 1. Students entering the Major in Geophysics program after first year may take GEOPH 210 in lieu of GEOPH 110. However, students will not receive credit for both GEOPH 110 and GEOPH 210. 2. This requirement may also be fulfilled by completing both MATH 334 and MATH 337. 3. This requirement may also be fulfilled by completing both MATH 315 and MATH 311. 4. Not all 200-, 300- and 400-level Physics courses are offered every year so students should plan accordingly.			
GEOPH 426 - Signal Analysis in Geophysics GEOPH 436 - Geophysics Field School GEOPH 438 - Seismic Data Processing MA PH 251 - Differential Equations for Physics (see Note 2) MA PH 351 - Mathematical Methods for Physics I (see Note 3) MATH 214 - Calculus III PHYS 234 - Introductory Computational Physics PHYS 244 - Classical Mechanics I PHYS 381 - Electromagnetic Theory I 3 units from: MATH 225 - Linear Algebra II MATH 227 - Honors Linear Algebra II 3 units from:						 Students without a background in computer programming are strongly encouraged to take CMPUT 174 as one of their Science Options in their first year. Students in Geophysics will not have the formal prerequisites for many of the AREC, CH E, CIV E, CMPUT, EAS, ECE, MIN E, and PET E courses, and must request permission to register in those courses from the department offering the particular course. To fulfill the knowledge requirements for registration as a professional geoscientist (P Geo.) through APEGA (Association of Professional Engineers and Geoscientists of Alberta), meet with an Geophysics program advisor to discuss appropriate course selections. Current syllabus and registration information is available from the Department 				
EAS 209	EAS 320	GEOPH 421	PHYS 308				of Physics of	or APEGA. Full i www.apega.ca	nforma	
EAS 221 EAS 224	EAS 323 GEOPH 332	GEOPH 440 PHYS 271	PHYS 499				available at	apega.ca		
9 units from: AREC 313 AREC 365 ASTRO 429 CH E 243 CIV E 250		EAS 221 EAS 224 EAS 270 EAS 320 EAS 323	EAS 324 EAS 421 EAS 422 EAS 425 EAS 456	ECE 209 GEOPH 332 GEOPH 421 GEOPH 431 GEOPH 440	MIN E 295 MIN E 323 PET E 365 PHYS 261 PHYS 271	3 I	PHYS 308 PHYS 310 PHYS 362 PHYS 420 PHYS 467	PHYS 481 PHYS 499 STAT 151 STAT 161		COMM COMM IND BO BO BSBS BSFS BSFS
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