


Program Curriculum Map 2012-13

Program: GEOSCIENCE - BS					
Program Student Learning Goals <i>Successful graduates from this program will be able to.....</i> 	<i>Be able to explain the fundamentals of the Theory of Plate Tectonics, including its causes and its effects, and the evidence that supports its occurrence. In addition, be aware of and be able to describe aspects of Plate Tectonic Theory about which there is uncertainty and/or disagreement.</i>	<i>Be able to explain how earth processes and materials impact human society, and how activities of human society impact the earth and environment. Be able to describe several examples of each - and explain them in detail.</i>	<i>Be able to explain what historical science is and why it is performed. Understand how modern day processes can be used to reconstruct the processes and events of Earth's past including, but not limited to, utilizing experimental data obtained under a wide range of temperature, pressure, and fluid compositions that are then compared to ancient rocks.</i>	<i>Be able to describe and explain the limitations of several difference methods used to perform historical science, and understand and be able to explain how and why multiple approaches are used simultaneously.</i>	<i>*Foundation Course</i>
GOL 115	I				
GOL 225	I	I			
GOL 226	I	I	I		
GOL 325	R	M	R		
GOL 373		R	M	M	
GOL 398	M		M	R	
GOL 410	R	R	R	R	
GOL 313 or 323 or 333		323:R, 333: R	313: M, 323: R, 333: R	313: R	
CHE 211					F
MAT 112					F
PHY 151 or 261					F
CHE 212					F
GOL 326	R	M	R	R	
MAT 201					F
MAT 202					F
PHY 152 or 262					F
ELECTIVES					
GOL 450 or 460 or 470	Varies by individual project or internship.	Varies by individual project or internship.	Varies by individual project or internship.	Varies by individual project or internship.	
Curriculum Map Key	Place a letter in the appropriate box where the program goal is Introduced, Reinforced, and/or Mastered. I = Introduced; program student learning goal is introduced R = Reinforced; provide practice opportunities for the program student learning goal M = Mastered; demonstrated mastery of the program student learning goal. <i>Some courses may have two letters (I/R or R/M) or all three (I/R/M)</i> *Foundation Course A course that provides base skills needed to be successful in the program. Programs may not require or have foundation courses; it will vary from program to program.				