

Earth Science Assessment Plan Rev. 11/16/2019

Earth Science	16-17	17-18	18-19	19-20	20-21	21-22
ERSCB10 - Introduction to Earth Science						
• 1. Upon successful completion of the course, the student will be able to demonstrate their knowledge regarding materials that make up the earth; mineral physical properties, classifying major rock types, and the associated geologic environments related to the rock cycle.	C	C	C		P	
• 2. Upon successful completion of the course, the student will be able to demonstrate their knowledge regarding geologic processes that shape the earth's surface and common land features produced from erosional processes of water, wind, and ice.	C	C			P	
• 3. Upon successful completion of the course, the student will be able to apply the theory of plate tectonics and how tectonic plate interactions produce geologic environments and their associated rock types (igneous, sedimentary, and metamorphic).	C	C			P	
• 4. Upon successful completion of the course, the student will be able to decipher geologic history using various relative dating techniques and apply the concept of uniformitarianism vs. catastrophism and the geologic time scale when unraveling earth history.		C		P		
• 5. Upon successful completion of the course, the student will be able to demonstrate their knowledge regarding atmospheric processes that govern the earth's climatic patterns, weather systems, moisture, clouds and precipitation.		C				
• 6. Upon successful completion of the course, the student will be able to demonstrate their knowledge regarding the earth's place in the universe; solar system and beyond the solar system and the physical laws that govern the universe; Universal Gravitational law, Kepler's laws of planetary motion.		C				
• 7. Upon successful completion of the course, the student will be able to apply the various steps in the scientific method that leads to the "accuracy" of earth processes and modern astronomy explained in lecture and the textbook.		C		P		
• 8. Upon successful completion of the course, the student will be able to understand man's place in earth's history and how man has impacted the earth's spheres.		C				
ERSCB10L - Earth Science Laboratory						
• 1. Upon successful completion of the course, students will be able to demonstrate a knowledge of and recognize the processes that explain natural phenomena.				P		
• 2. Upon successful completion of the course, students will be able to apply methodologies of science when approaching a problem.					P	
• 3. Upon successful completion of the course, students will be able to apply logical quantitative and qualitative reasoning in solving problems or analyzing arguments.						P