2/11/2025 DATE

☐ REQUIRED COURSE
☑ ELECTIVE COURSE

MSD DIVISION

☐ NEW COURSE
☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	ESC-100		**TITLE:** *(30 Characters Max)*	Physical Geology							
SEM CR HRS:	4.0	**Lecture:**	3.0	**Lab:**	2.0	**ICCB Lab:**	2.0	**ECH:**	5.0		
Course Level:	☑ Gen Ed/IAI ☐ Baccalaureate/Non-IAI ☐ Career/Technical ☐ Dev Ed/Not in Degree Audit			**Clinical Practicum:**	0.0	**Work-based Learning:**	0.0	**WBL ECH:**	0.0		
Course PCS & CIP:	11 - 40.0601		**IAI Code**	P1 907L				**Contact Hours (Minutes/Week)**			
Repeatable (Y/N):	N	**Pass/Fail (Y/N):**	N	**Variable Credit (Y/N):**	N	**Min:**		**Max:**		**16 Wks**	250	**8 Wks**	500
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	Physical geology stresses the basic geologic concepts and processes that are responsible for creating and shaping the Earth. Materials covered include the topics of: rocks, minerals, volcanoes, earthquakes, stream erosion, wind erosion, glaciers, groundwater, Earth interior, plate tectonics and gravity.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Earth systems and movements	3	1		
Earth structure, plate tectonics and landforms	20	10		
Gradation, weathering and mass movement	22	19		
TOTAL	45	30	0	0

EVALUATION							
QUIZZES	☑	**EXAMS**	☑	**ORAL PRES**	☐	**PAPERS**	☐
LAB WORK	☐	**PROJECTS**	☐	**COMP FINAL**	☑	**OTHER**	☐

COURSE MATERIALS		
TITLE:	Earth	
AUTHOR:	Tarbuc	
PUBLISHER:	Prentice Hall	
VOLUME/EDITION/URL:	8th edition	
COPYRIGHT DATE:	2005	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Earth systems and movements	4	1. Differentiate processes associated with solar system formation and motions associated with earth/sun dynamics in relation to historical thought and theories with these motions.
Earth structure, plate tectonics and landforms	30	1. Assemble and demonstrate both digitally and physically the processes that shape the internal structure of the earth and the associated internal energy flows driving plate tectonic motions.
Gradation, weathering and mass movement	41	1. Assemble and demonstrate both digitally and physically the processes that shape the external processes driving erosional and depositional land forms.
	75	

Outcomes*	Outcome Title	At the successful completion of this course, students will be able to:
Course Outcome 1	Construct Models	Construct models using maps and figures to demonstrate how maps/figures are used to support analysis of evolutionary scientific processes associated with the creation of the universe, solar system and Earth.

Course Outcome 2	Interpret Model Plat	Interpret models using maps, figures and labs (digital and physical) to produce models of plate tectonics and plate boundaries with associated land forms and processes associated with mountains, volcanoes and earthquakes.
Course Outcome 3	Interpret Model Geom	Interpret models using maps, figures, and labs (digital and physical) to produce models of erosion/deposition and geomorphologic processes with associated land forms and processes associated with rivers, oceanic waves, glaciers and wind.
Primary Laker Learning Competency	Scientific Literacy: Students apply the scientific process to real-life situations.	
Secondary Laker Learning Competency	Quantitative Literacy: Students analyze data and mathematical patterns in real-life situations.	

**Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.*