3/7/2024 DATE

☐ REQUIRED COURSE

☑ ELECTIVE COURSE

MSD DIVISION

☐ NEW COURSE

☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	ESC-104		**TITLE:** *(30 Characters Max)*	Physical Geography						**ECH:**	4
SEM CR HRS:	3	**Lecture:**	2	**Lab:**	2						
Course Level:	☑ Gen Ed/IAI ☐ Career/Technical ☐ Baccalaureate/Non-IAI ☐ Dev Ed/Not in Degree Audit			**Clinical Practicum:**	0	**Work-based Learning**	0	**WBL ECH:**	PER CONTRACT		
COURSE PCS #	11 - 45.0701		**IAI Code**	P1 909L		**Contact Hours (Minutes Per Week)**					
Repeatable (Y/N):	N	**Pass/Fail (Y/N):** N	**Variable Credit (Y/N):** N	**Min:**		**Max:**		**16 Wks**	200	**8 Wks**	400
Prerequisites:	None										
Catalog Description: (40 Word Limit)	Stresses the physical environment of earth. Emphasis is placed upon basic concepts in geography with a focus on the biosphere, lithosphere, atmosphere, and hydrosphere. Extensive use of Internet resources and software will be required for this course.										

	List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Introduction to Earth Science/Physical Geography and Mapping	5	3		
2	Earth-Sun Relations	3	5		
3	Weather and Climate - Atmospheric Structure	4	3		
4	Weather and Climate - Humidity and Wind	2	3		
5	Weather Processes	2	2		
6	Geology - Internal Forces (Plate Tectonics)	9	0		
7	Geology - External Forces (Erosion)	4	0		
8	On-line Geology Labs (GIS Labs)	1	7		
	TOTAL	30	23	0	0

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

COURSE MATERIALS	
TITLE:	Elemental Geosystems
AUTHOR:	Robert Christopherson
PUBLISHER:	Prentice Hall
VOLUME/EDITION/URL:	5th
COPYRIGHT DATE:	2006

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Introduction to Earth Science/Physical Geography		demonstrate knowledge of physical geography concepts through classroom participation, verbal discussions lab exercises, quizzes, and written exams.
Earth Science	2	
Cross Section of Earth	1	
What is Cartography and Digital Mapping (GIS, Remote Sensing and	4	
Scientific Method	1	
Earth-Sun Relations		
Earth's Orbit Around the Sun	2	
Seasons	1.5	
Radiation	4.5	
Weather and Climate - Atmospheric Structure		
Atmospheric Layers	1.5	
Evolution	1	
Function and Role	1	
Temperature Profile	2	
Solar Radiation Regulation	2.5	
Weather and Climate - Humidity and Wind		
States of Water	1	
Hydrologic Cycle	1	
Measuring Humidity	1	
Air Pressure and Wind	2	
Weather Processes		
Air Masses	1	
Cyclones and Anticyclones	2	
Upper Level Air Movements	1	
Geology - Internal Forces (Plate Tectonics)		
History of Plate Tectonics	1	
How it Works	2	
Plate Interactions	2	
Plate Movements	2	
Geologic Hotspots	1	
Geology - External Forces (Erosion)		
What is Erosion	0.5	
Forces Driving Erosion	1	
Resulting Landforms	2.5	

On-line Geology Labs		
Plate Tectonics Lab using GIS	4	
Land Use Mapping and GIS Analysis	4	
	53	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Demonstrate an understanding of the history of geography, geographic thought and modern mapping techniques.	
Demonstrate an understanding of atmospheric science concepts associated the seasons, radiation budgets, and air pressure/wind.	
Demonstrate an understanding of the hydrosphere relative to water cycles, precipitation patterns, and water budgets.	
Demonstrate an understanding of the lithosphere relative to plate tectonics and weathering processes associated with erosion.	

** Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.*