Outcomes Mapping

HSS DIVISION							
Program:	Geography	# Courses: (if applicable)		Updated:		Submitted by:	

Institutional Level Outcomes (ILOs): *As a result of an educational experience with any aspect of the college, students will develop the following knowledge, skills, abilities, and attitudes:*			
1. Communication	2. Critical Thinking	3. Information and Technology Literacy	4: Personal, Social, Civic, and Environmental Responsibility

Connect PLOs with an **I, P, or M** (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated following the completion of the program or educational experience.		PLO to ILO Alignment			
PLO Name	*PLO Defined: Upon successful completion of this program, students will be able to:*	1	2	3	4
1. Geographic Principles	**Apply geographic principles to particular world regions.**	**M**	**P**	**I**	**I**
2. Human-Environment Relationship	**Analyze the fundamental human-environment relationship.**	**M**	**P**	**I**	**P**
3. Spatial Variation	**Evaluate spatial variation in human and physical processes.**	**M**	**P**	**I**	**I**
4.					
5.					
6.					
7.					
8.					
9.					
10.					

See the Outcomes Assessment website for definitions and examples of Mt. SAC's ILOs: http://www.mtsac.edu/instruction/outcomes/ilos.html

Key for Level of Learning
(Use for Mapping SLOs/MOs to PLOs to ILOs)
I = Knowledge/Skill Introduced
P = Knowledge/Skill Practiced/Applied
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Outcomes Mapping

Student Learning Outcomes (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: GEOGRAPHY 1	Connect Outcomes with an **I, P, or M** (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO 1: Examine physical forces and processes that operate within the natural environment.	P	**I**	**P**								**P**	**M**	**I**	**I**
SLO 2: Recognize and identify how human and physical processes differ from place to place analyze distributional and locational relationships of things around the world.	M	**P**	**M**								**P**	**M**	**I**	**I**
SLO 3: Apply geographical methodology in the interpretation of spatial relationships involving distance, area and direction on the Earth's surface.	P	**P**	**P**								**P**	**M**	**I**	
SLO 4: Evaluate the impact of science in daily life.	I	**I**	**I**								**I**	**I**	**I**	
MO 1: Define geography as an integrative discipline using examples of the Earth's four spheres.	M	**M**	**M**								**P**	**P**	**I**	
MO 2: Describe common patterns of temperature and temperature inversions, high and low pressure, ocean and land winds, global winds, rain and desert patterns.	M	**M**	**M**								**P**	**P**	**P**	
MO 3: Compare and correlate the Earth's major climates and biomes.	M	**M**	**M**								**P**	**P**	**P**	
MO 4: Locate major physical features of Earth on a series of world maps.	M	**M**	**M**								**P**	**P**	**P**	

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MO 5: Distinguish between internal, mountain-building processes and external, landform-shaping processes.	M	**M**	**M**								**P**	**P**	**P**	**P**

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Student Learning Outcomes (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: GEOGRAPHY 2	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO 1: Analyze the spatial variation of humans and their activities around the world.	P	**P**	**P**								**P**	**M**	**I**	
SLO 2: Describe the tools and theories used in geographic research.	M	**M**	**M**								**P**	**M**	**P**	
SLO 3: Evaluate the relationship between humans and the environment.	P	**P**	**P**								**P**	**P**	**I**	
MO 1: Describe the scope of the discipline of geography and the tools used by geographers to study human processes on the earth.	M	**M**	**M**								**P**	**M**	**I**	
MO 2: Analyze the spatial expression and cultural impacts of contemporary globalization.	M	**I**	**M**								**P**	**M**	**P**	
MO 3: Describe the distribution of humans globally and explain the tools used by geographers to evaluate human population change.	M	**M**	**M**								**P**	**P**	**I**	
MO 4: Synthesize theories of human migration to explain historical and contemporary patterns of human mobility.	P	**P**	**P**								**P**	**P**	**I**	
MO 5: Explain spatial variation of and describe patterns of cultural and social expression including language, religion, ethnicity, race, gender, sexuality, political	M	**P**	**P**								**P**	**M**	**I**	

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processes, urbanization, development, agriculture, manufacturing and service economies.														
MO 6: Describe human impacts on the environment including impacts of the use of renewable and non-renewable energy resources.	M	**P**	**P**								**P**	**M**	**P**	

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Student Learning Outcomes (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: GEOGRAPHY 1L	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO 1: Interpret maps.	M	**P**	**P**								**P**	**P**	**I**	
SLO 2: Construct maps using cartographic principles.	P	**P**	**P**								**P**	**P**	**I**	
SLO 3: Evaluate the impact of science in daily life.	I	**I**	**I**								**P**	**P**	**I**	
MO 1: Construct and interpret maps using cartographic principles.	P	**P**	**P**								**P**	**P**	**I**	
MO 2: Apply principles of earth-sun relationships to concepts of time, seasonal variations in solar energy receipt and overall climatic patterns on earth.	P	**P**	**P**								**P**	**I**	**I**	
MO 3: Perform functions of temperature and pressure change using lapse rates.	P	**P**	**P**								**P**	**I**	**I**	
MO 4: Relate the distribution of vegetation to biomes and soil types.														
MO 5: Analyze landform features through an understanding of tectonic processes as well as exogenic processes such as erosion and deposition.														

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Student Learning Outcomes (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: GEOGRAPHY 5	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO 1: Explain the geographic tools used in regional analysis.	M	**M**	**M**								**P**	**M**	**P**	
SLO 2: Evaluate the geographic situation, problems and prospects for each world region.	M	**M**	**P**								**P**	**M**	**P**	
SLO 3: Analyze the spatial variation of human activities and physical processes in distinctive world regions.	M	**P**	**P**								**P**	**M**	**P**	
MO 1: Define the concept of region in geographic analysis.	M	**M**	**M**								**P**	**P**	**P**	
MO 2: Identify the location of the world's countries, major urban centers, bodies of water, and other landform features.	M	**M**	**M**								**P**	**P**	**P**	
MO 3: Explain patterns of physical processes in distinctive world regions including climate and landform evolution.	P	**P**	**P**								**P**	**P**	**P**	
MO 4: Explain patterns of human processes in distinctive world regions including demographics, migration, language, religion, ethnicity, political processes, development and economic activities.	P	**P**	**P**								**P**	**P**	**P**	
MO 5: Describe the physical, social, economic, political and cultural relationships between distinctive world regions.	M	**M**	**P**								**M**	**P**	**P**	

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Student Learning Outcomes (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: GEOGRAPHY 30	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO 1: Analyze the relationship between humans and the environment in California.	P	**P**	**P**								**P**	**I**	**P**	
SLO 2: Recognize and evaluate how human and physical processes differ from place to place and analyze the distributional and locational relationship of things in the state of California.	M	**M**	**M**								**P**	**M**	**P**	
MO 1: Describe the physical processes that shape the natural environments of California.	P	**P**	**P**								**P**	**P**	**P**	
MO 2: Explain patterns of urban development in the state and distinguish current trends in urban development in California.	P	**P**	**P**								**P**	**P**	**P**	
MO 3: Explain the origins and development of agriculture and industry in California.	P	**P**	**P**								**P**	**P**	**P**	
MO 4: Analyze the influence of varying cultural and ethnic groups in the shaping of the cultural landscapes of California.	P	**P**	**P**								**P**	**I**	**P**	
MO 5: Analyze the use of natural resources in the state, particularly the role of water in the development of both the economic and social landscape of California.	P	**M**	**P**								**P**	**M**	**P**	

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Student Learning Outcomes (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: GEOGRAPHY 10	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO 1: Perform simple spatial data analysis using appropriate software.	P	**P**	**P**								**P**	**I**	**P**	
SLO 2: Apply principles of geographic data display to GIS problems.	P	**P**	**P**								**I**	**I**	**I**	
SLO 3: Demonstrate the ability to communicate the results of GIS analysis through appropriate maps, documents and web pages.	P	**M**	**M**								**I**	**I**	**I**	
MO 1: Manipulate geographic data and the fundamentals of geographic data structures.	M	**M**	**M**								**P**	**I**	**P**	
MO 2: Describe the fundamentals of cartography and the importance of map projections in constructing effective maps.	M	**M**	**P**								**P**	**M**	**P**	
MO 3: Construct simple spatial databases.	M	**P**	**M**								**P**	**M**	**P**	
MO 4: Analyze case studies of geographic problems and the procedures used to solve them.	P	**P**	**P**								**P**	**P**	**I**	
MO 5: Perform simple spatial data analyses using appropriate software.	M	**P**	**M**								**P**	**P**	**I**	
MO 6: Apply principles of geographic data display to GIS problems.	M	**P**	**M**								**P**	**P**	**P**	
MO 7: Communicate the results of GIS analysis through appropriate maps,	M	**P**	**M**								**I**	**P**	**I**	

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documents and web pages.														
MO 8: Construct and maintain computer GIS files.	M	**M**	**M**								**I**	**I**	**I**	
MO 9: Use desktop GIS software.	M	**M**	**M**								**P**	**I**	**P**	

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