**GEOGRAPHY (GEO)**

**GEO 101 - Introduction to Geography**

*Credit Hours: 3, Contact Hours: 3*

*Division: Social Science*

This course emphasizes both the physical and the cultural aspects of geography. Physical factors such as weather and climate, soil, vegetation and landforms are considered as they determine the natural resources of a region. Various aspects of human culture such as religion, language and economic systems are studied to gain an understanding of the ways in which people have used and misused their resources. Group 1 course. Communications - Direct, Degree Req:Cultural Persp/Div.

Recommended Prerequisite(s): MTH 100, students scoring below ENG 111 on the placement test should plan on additional study time.

**GEO 105 - Physical Geography**

*Credit Hours: 3, Contact Hours: 3*

*Division: Social Science*

Physical geography studies selected elements of the physical environment: weather and climate, landforms, soil and vegetation. Particular emphasis is placed upon the nature and distribution of physical features throughout Michigan with respect to humankind. The lab includes field trips and emphasizes the application of physical principles through hands-on study of minerals, rocks, and soils; in conjunction with map and aerial photo interpretation. Group 1 course. Quantitative Reasoning.

Recommended Prerequisite(s): MTH 100, students scoring below ENG 111 on the placement test should plan on additional study time.

Corequisites: GEO 105L

**GEO 105L - Physical Geography Lab**

*Credit Hours: 1, Contact Hours: 2*

*Division: Social Science*

The lab emphasizes the application of selected physical elements through means of field work, map and aerial photo interpretation. Group 1 lab course.

Corequisites: GEO 105

**GEO 108 - Geography of U S & Canada**

*Credit Hours: 3, Contact Hours: 3*

*Division: Social Science*

The diverse regions of Anglo-America will be investigated in this course. We will consider the relationship between the natural environment, the cultural background, economic conditions, and local problems of the U.S. and Canada. Group 1 course. Communications - Direct.

Recommended Prerequisite(s): Students scoring below ENG 111 on the placement test should plan on additional study time.

**GEO 109 - World Regional Geography**

*Credit Hours: 3, Contact Hours: 3*

*Division: Social Science*

This course is a study of world regions. For each region we will consider the relationship between the natural environment, cultural background, economic conditions, and local problems that relate to world issues. Group 1 course. Communications - Direct, Degree Req:Cultural Persp/Div.

**GEO 115 - Introduction to GIS**

*Credit Hours: 3, Contact Hours: 4*

*Division: Social Science*

This course explores the fundamentals of Geographic Information Systems (GIS) for map reading, interpretation and analysis, in conjunction with the principles of cartography. Computer and Internet technologies are utilized for the generation, manipulation, storage and retrieval of maps and associated geographic attributes. Topics covered include: basic GIS concepts, display of data and attributes, queries, metadata, tabular relationships, data editing, projections and datums, and basic cartography. Group 1 course. Intermediate computer skills (Windows) and Internet experience required. Communications - Direct.

Recommended Prerequisite(s): MTH 100