GPH - GEOGRAPHY

GPH 1100 (SS) World Regional Patterns Cr. 4
Concepts and theory in analyzing areal relationships and distinguishing regional patterns of human activity; cultural factors and physical conditions (climate, landforms) as factors in regional delineations; comparisons and contrasts in regional economic development; analysis of concentrations/dispersals of human activity; local, national and regional phenomena in the interpretation of global patterns. Offered Every Term.

GPH 2000 (SS) Introduction to Urban Studies Cr. 4
Urban phenomena both past and present, including the quality and nature of urban life; major concerns of urban areas; perspectives and techniques of various urban-related disciplines. Offered Every Term.

GPH 2200 Geography of Michigan Cr. 3
The spatial physical, social, environmental, settlement and developmental patterns and problems of the State of Michigan. Offered Irregularly.

GPH 2700 (FC) Introduction to Canadian Studies Cr. 3
Survey of Canada in its cultural, literary, historical, geograhical and political aspects; key concepts and social patterns that define the Canadian experience. Offered Yearly.
Equivalent: ENG 2670, HIS 2700, PS 2700

GPH 3130 (SS) Introductory Urban Geography Cr. 4
An introduction to the geographer's view of cities, with emphasis on the North American city. Topics include the pre-industrial city, migration, evolution of the American urban pattern, city classification, city-regional relationships, and the city's internal structure (ethnic, residential, commercial, and industrial). Offered Yearly.

GPH 3200 (SS) Europe Cr. 3
Analysis of European countries. Emphasis on population changes resource problems, industrial location, urbanization, regional development, and emerging economic and political unities. Offered Irregularly.

GPH 3600 Introduction to Geographic Information Systems Cr. 4
Theory and application of computer-based systems for the analysis and representation of spatial data. Offered Yearly.
Prerequisite: GPH 3120, with a minimum grade of D-; GPH 3500, with a minimum grade of D-

GPH 3900 Topics In Geography Cr. 3
Offered Biannually.
Repeatable for 6 Credits

GPH 3990 Directed Study Cr. 2-3
Readings and research. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Repeatable for 8 Credits

GPH 4510 Cities And Regions Cr. 4
Offered Winter.
Prerequisites: (GPH 2000 with a minimum grade of D-) AND (HIS 2000 with a minimum grade of D-) AND (PS 2000 with a minimum grade of D-) AND (SOC 2000 with a minimum grade of D-) AND (US 2000 with a minimum grade of D-)
Equivalent: US 4510

GPH 4600 Advanced Geographic Information Systems Cr. 4
Application of GIS to analyses of spatially-referenced data. Offered Yearly.
Prerequisites: GPH 3600 with a minimum grade of D-
Repeatable for 998.99 Credits

GPH 5650 Metropoltn Detroit Cr. 3
Offered Yearly.
Restriction(s): Enrollment is limited to Undergraduate level students.
Equivalent: UP 5650

GPH 6420 Quantitative Techniques I Cr. 4
Statistical inference with emphasis on applications including central tendency, dispersion, hypothesis testing, correlation and regression. Offered for undergraduate credit only. Offered Yearly.
Restriction(s): Enrollment is limited to Undergraduate level students.
Equivalent: UP 6320

GPH 6700 Geographic Information Systems Cr. 4
Principles and applications of GIS, including spatial statistics, computer graphics, computer cartography. Offered Yearly.
Equivalent: UP 6700

GPH 7990 Directed Study Cr. 2-3
Readings and research. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.

GPH 7999 Master's Essay Direction Cr. 1-3
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.

GPH 8999 Master's Thesis Research and Direction Cr. 1-8
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.