Geographic Information Systems (GIS) Minor @ Westfield State University

GIS means making intelligent and meaningful maps – maps that can answer the following three geographic questions: What? Where? Why? More formally, a GIS integrates geospatial data, hardware, software, and geographic concepts to analyze and visualize geographic information. The application of GIS technology is widening beyond its "traditional" scope of geography, planning, and environmental sciences and extends into, for example, public health, social services, homeland security, law enforcement, business and marketing, communications and media, history, and political science.

GIS is a key emerging and evolving industry and our GIS Minor gives you the skills and hands-on experience necessary to use GIS in your future career. For more information about the GIS Minor, GIS advising, and to sign-up for the GIS Minor, please contact Dr. Tim LeDoux, GIS Coordinator, at tledoux@westfield.ma.edu.

Requirements

Part 1) Required GIS Courses (12 hours)

GARP 0243 Introduction to Remote Sensing GARP 0244 Introduction to Geographic Information Systems GARP 0344 Advanced Geographic Information Systems

One of the following:

GARP 0246 Quantitative Methods for Social and Physical Science or BIOL 0278 Biostatistics or

CRJU 0313 Quantitative Methods in Criminal Justice* or ECON/FINC 0305 Introduction to Econometric Methods* or

ECON/FINC 0305 Introduction to Econometric Methods* or ENVS 0330 Data Analysis* or

MGMT 0250 Quantitative Approaches to Business Decisions*

Part 2) Plus two of the following (6 hours)

BIOL 0204 GIS Applications for Natural Sciences*

CAIS 0117 Introduction to Computer Programming (BASIC)

CAIS 0212 Visual Programming Concepts

CRJU 0328 Computer Application in Crime Analysis

CRJU 0359 GIS Applications in Crime Analysis*

GARP 0241 Cartographic & Data Visualization

GARP 0317 Special Topics in GIS

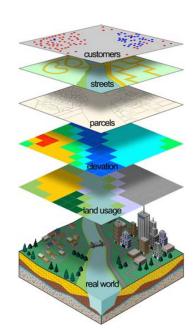
GARP 0343 Advanced Remote Sensing*

GARP 0347 Cloud GIS*

GARP 0350 Internship in GIS

GARP 0365 Geoprocessing*

GARP 0399 Independent Studies in GIS



^{*} Some of the courses listed above carry prerequisites or require instructor consent.

^{**} Other courses, not listed above, may be substituted with approval of the GIS Coordinator.

^{***} We encourage GIS independent studies or GIS Internships to gain practical experience. For more information about our overall GIS Program and related opportunities at Westfield State University visit our website at www.westfield.ma.edu/gis.

