COURSE REQUIREMENTS

1) Prerequisite (3 credits) – Select one
   MGMT 0107 Software App. in Management
   CRJU 0328 Computer App. in Crime Analysis
   *This prerequisite can be waived for students with documented appropriate computer expertise.

2) Required GIS Courses (6 credits)
   Classes must be taken at Westfield State University.
   GARP 0244 Intro to GIS
   GARP 0344 Advanced GIS

3) GIS App. Theme (3 credits) – Select one
   GARP xxxx Any applied GARP course
   ENVS xxxx Any applied Envi. Sci. course
   BIOL xxxx Any applied Biology course
   CRJU xxxx Any applied Criminal Justice course
   ART 0108 Computer Graphics for Art Apps I/II
   xxxx 0399 Independent Study (conduct a GIS project supervised by a WSU faculty member)

4) GIS Quant. Theme (3 credits) – Select one
   MATH 0108 Elementary Statistics
   GARP 0243 Introduction to Remote Sensing
   GARP 0343 Advanced Remote Sensing
   GARP 0315 Site Location Studio
   GARP 0340 Data Collection and Analysis
   GARP 0343 Advanced Remote Sensing
   GARP 0346 Quantitative Methods
   GARP 0360 Field Methods
   CAIS 0125 Introduction to CIS
   CAIS 0210 Database App. Develop Techniques
   CAIS 0310 Database Management
   CRJU 0313 Quant. Methods in Criminal Justice

MORE INFORMATION

For information regarding application to the GIS Certificate Program, please contact the Division of Graduate and Continuing Education at: 413-572-8020 or visit their website at www.GoBackNow.com.

For more information regarding approval of particular coursework, GIS advising, assembling a course of study, or other program specific inquiries, please contact GIS Certificate Director Dr. Carsten Braun at cbraun@westfield.ma.edu.
GIS @ WESTFIELD STATE UNIVERSITY
Westfield State University offers a Certificate in Geographic Information Systems (GIS) for working professionals or professionals looking to get into the fields of city and regional planning, environmental sciences, public health, social services, homeland security, law enforcement, business and marketing, communications and media, political science, and more. Visit our website to learn more about the great job opportunities in GIS.

GIS CERTIFICATE
GEOGRAPHIC INFORMATION SYSTEMS
GIS means making intelligent and meaningful maps that answer the three fundamental geographic questions: What? Where? Why?

GIS is a key emerging and evolving industry and our GIS Certificate gives you the skills and hands-on experience necessary to use GIS in your future career.

GIS provides a 21st century framework for spatial thinking and spatial analysis. It is data visualization and analysis – investigating relationships between variables across space and/or across time. GIS creates a wide range of data visualization products including maps, site plans, interactive websites, 3D animations and more.

GIS ACROSS THE CURRICULUM
GIS skills are highly marketable and a GIS Certificate from Westfield State University demonstrates to potential employers a high level of GIS competence and experience.

• Only 12-15 credit hours
• Courses are offered during the fall, spring, and summers
• Courses may be taken during the day or evening
• Some coursework from other institutions may be accepted in transfer after review by the certificate director
• Admissions is on a rolling basis
• Admission requirements include
  o Application
  o $50 Application fee
  o Proof of Residency Form

The GIS Certificate includes a 12-15 credit comprehensive set of courses, which account for the diversity of backgrounds, needs, and computer experience of the students. The target audience is non-traditional students, (e.g. professionals from the private and public sectors), educators, local town government officials, etc., with and without an academic degree.

visit us at westfield.ma.edu/gis