



The Certificate gave me the recognition of my skills in the engineering profession and was useful to my company for marketing me as a GIS professional."

**KRISTINE BAKER, 2010**

## MORE INFORMATION

For information regarding application to the GIS Certificate Program, please contact the College of Graduate and Continuing Education at: (413) 572-8020 or visit their website at 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](mailto:cbraun@westfield.ma.edu).

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[GoBackNow.com](http://GoBackNow.com)

[westfield.ma.edu/gis-cert](http://westfield.ma.edu/gis-cert)



Nestled in the scenic Pioneer Valley, Westfield State University is within commuting distance of Springfield, Worcester, Boston, the Berkshires, northern Connecticut, eastern New York, and southern Vermont and New Hampshire.



I use the skills from the program (and skills that I built on top of them) nearly every day. I currently work as the GIS administrator for a water utility, and the fundamentals of GIS are just as important as the more advanced skills I've picked up along the way.

**JAY GUARNERI, 2011**

**Westfield**  
STATE UNIVERSITY  
— COLLEGE OF —  
Graduate &  
Continuing Education

# Certificate in GEOGRAPHIC INFORMATION SYSTEMS (GIS)



**Westfield**  
STATE UNIVERSITY  
— COLLEGE OF —  
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# Certificate in GEOGRAPHIC INFORMATION SYSTEMS (GIS)



It was a privilege to work with the supportive and knowledgeable faculty in the WSU Geography department. I appreciated that they always made time for me if I was having trouble with something. In fact, I still feel supported even several years later. I really feel like I became part of a community.

**PETER VANCINI, 2014**

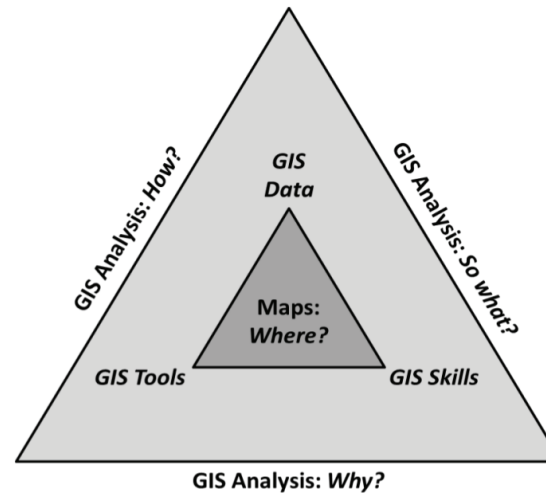
## GIS AT WESTFIELD STATE UNIVERSITY

Westfield State University offers a Certificate in Geographic Information Systems (GIS) for professionals from the private, public, education and non-profit sectors looking to enhance and expand their career opportunities.

GIS is a key emerging industry and our GIS Certificate gives you the knowledge, skills, and hands-on experience to use GIS effectively in a wide range of fields including regional planning, municipal services, environmental consulting, public health administration, social services, homeland security, law enforcement, business and marketing, communication and media, and more.

Please visit our website to learn more about the great job opportunities in GIS.

GIS means asking and answering questions about patterns, connections, and relationships across space and time. It is a framework for spatial thinking and analysis and creates a wide range of data visualization products including maps, site plans, interactive



websites, 3D models, and more. Technologies and tools such as unmanned aerial vehicles (UAVs), 3D printers, and wireless smart devices are all integral parts of GIS in the 21st century.

GIS skills are highly-marketable and a GIS Certificate from Westfield State University demonstrates a high-level of GIS competence and experience.

## GIS FOR YOU

Our GIS Certificate provides a flexible 12-credit course series to account for the diversity of backgrounds, interests, and needs of our students.

- Courses are offered during the fall, spring, and summer sessions.
- Courses may be taken during the day, evening, or online.
- Some coursework from other institutions may be accepted in transfer after review by the certificate director.
- Admission is on a rolling basis.
- Admission requirements include: 1) application, 2) \$50 application fee, 3) proof of residency form.

Please contact the GIS Certificate Director Dr. Carsten Braun (cbraun@westfield.ma.edu) to design a personalized program of study and course sequence that best meets your needs.

*The GIS Certificate is also available to full-time or part-time Westfield State University students looking to supplement their academic credentials.*



## THE GIS CERTIFICATE CURRICULUM

Two required courses:

- GARP 0244 Introduction to GIS
- GARP 0344 Advanced GIS

Two additional courses (by advisement):

- 1 GIS-themed or quantitative-themed course, for example GARP 0243 Remote Sensing, GARP 0246 Quantitative Methods for Social and Physical Science, GARP 0317 Special Topics in GIS, GARP 0340 Data Collection and Analysis, GARP 0347 Cloud GIS, GARP 0350 Internship in GIS, GARP 0365 Geoprocessing, ENVS 0330 Environmental Data Analysis, BIOL 0204 GIS Applications for Natural Sciences, CRJU 0313 Statistics in Criminal Justice, or CRJU 0359 GIS Applications in Crime Analysis.
- 1 applied GIS project (GARP 0399 Independent Studies in GIS).

Other courses, not listed above, require prior approval from the GIS Certificate Director. Please note that some of the courses listed above carry prerequisites or require instructor consent.