

# **GEOGRAPHIC INFORMATION SYSTEMS (GIS)** **CERTIFICATE**

The certificate requires the completion of 18 credits, consisting of five core courses and one elective, with no grade lower than a C in each class, as follows:

## **Core courses (15 credits):**

- \_\_\_ Geog 0420 – Cartography
- \_\_\_ Geog 1420 – GIS Special Projects
- \_\_\_ Geog 1425 – Remote Sensing
- \_\_\_ Geog 1440 – Geographic Information Systems (GIS)
- \_\_\_ Stat 1020 – Social Statistics or a comparable statistics course

Alternatives include: Math 0212 Intro to Biostatistics, Psych 0270 Intro Statistics,  
Stat 1040 Statistics for Bus and Economics, Math 1153 Intro to Probability and Statistics.

**Elective (one course: 3 credits):** Choose one from the pre-approved list below **or** in consultation with the certificate program advisor. *This course should be completed prior to beginning the “GIS Special Projects” course so that its content and perspectives can be drawn upon for the final project.*

- \_\_\_ Bio 1110 – Biodiversity Conservation
- \_\_\_ Bio 1130 – Biology of Plants
- \_\_\_ Bio 1515 – General Ecology
- \_\_\_ Bio 1520 – Aquatic Ecology
- \_\_\_ Bus 1410 – Business Database Management
- \_\_\_ Geog 1160 – Population Geography
- \_\_\_ Geog 1230 – Resource Management
- \_\_\_ Geog 1240 – Water Resources
- \_\_\_ Geog 1610 – Urban Planning
- \_\_\_ Geol 1061 – Geomorphology
- \_\_\_ Geol 1105 – Hydrology
- \_\_\_ Geol 1139 – Geology of Soils
- \_\_\_ Soc 0440 – Urban Sociology
- \_\_\_ Soc 1113 – Environmental Sociology

For additional information, contact any member of the geography faculty:

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