‘Old’ (before Fall 2015) GIScience Certificate Requirements

The Undergraduate Certificate in GIScience program consists of four required and three elective courses. To be eligible for the certificate, students must earn at least 26 credits of which at least 15 must be from the required courses and at least 11 from the elective courses. A grade of at least a C must be earned in all of the certificate courses.

Four required courses (15 credits)
1. Digital Earth (GES 2050) - 3 credits
2. Introduction to Cartography (GES 3050) - 4 credits OR Geovisualization (GES 4070) - 4 credits
3. Introduction to GIS (GES 4050) - 4 credits
4. Students are required to take one of the following advanced courses. The other two can be taken as elective courses.
   a. Advanced GIS (GES 4080) - 4 credits
   b. Internet GIS (GES 4120) - 4 credits
   c. Programming GIS (GES 4130) - 4 credits

Three electives from the following courses (11-12 credits)
1. Statistical Analysis in Geography (GES 4000) - 4 credits
2. Introduction to Remote Sensing (GES 4060) - 4 credits
3. Geovisualization (GES 4070) - 4 credits
4. Advanced GIS (GES 4080) - 4 credits
5. Image Processing (GES 4090) - 4 credits
6. GPS with GIS (GES 4100) - 3 credits
7. Internet GIS (GES 4120) - 4 credits
8. Programming GIS (GES 4130) - 4 credits