

GIS and Spatial Analysis Minor

This checklist is based on the current Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward completion of the minor.

Curriculum Checklist

GIS REQUIRED COURSES

- ___EGGS 242: Mapping and GIS Fundamentals* (3)
- ___EGGS 360: Principles of GIS I (3)
- ___EGGS 361: Principles of GIS II (3)

GIS ELECTIVES

Choose at least 2 (6 credits)

- ___EGGS 320: Remote Sensing of the Earth (3)
- ___EGGS 325: UAV Applications (3)
- ___EGGS 364: Digital Cartography (3)
- ___EGGS/CRJ 370: GIS for the Social Sciences (3)
- ___EGGS 381: Programming in GIS (3)
- ___EGGS 410: Advanced Environmental Applications of GIS (3)
- ___EGGS 440: Advanced Topics in GIS (3)

Electives: Choose at least 1 (3 credits)

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| ___EGGS 160: Digital Earth* (3) | ___CMSC 150: Principles of Database Design (3) |
| ___EGGS 275: Introduction to Surveying (3) | ___ENGT 180: Computer Aided Design and Engineering Graph. (3) |
| ___CMSC 115: Python Programming* (3) | ___GRDS 200: Introduction to Graphic Design (3) |
| ___CMSC 120: Object-Oriented Programming with Java* (4) | ___ITD 470: Introduction to Website Development (3) |
| ___CMSC 125: Fundamentals of Web Development (3) | ___ARVR 200: Introduction to Virtual and Augmented Reality** (3) |

Total Credits *Required for the Minor* (18 Credits)

Campus Locations

- Bloomsburg Online; In-person; Blended
- Lock Haven Online; In-person; Blended
- Mansfield Online; In-person; Blended

*General Education: Technology

**General Education: Natural World and Technology