## Common Courses, 18-32 s.h.

**Complete all the following:**
- GEOG:1020 The Global Environment (3)
- GEOG:1021 The Global Environment Lab (1)
- GEOG:1050 Foundations of GIS (4)
- GEOG:1090 Globalization and Geographic Diversity (3)

**Choose one of the following:**
- GEOG:1060 Geography of Asia: From Japan to Pakistan (3)
- GEOG:1070 Contemporary Environmental Issues (3)
- GEOG:2110 Seven Billion & Counting: Introduction to Population Dynamics (3)
- GEOG:2130 World Cities (3)
- GEOG:2910 The Global Economy (3)
- GEOG:2950 Environmental Conservation (3)

**Choose one of the following:**
- *Not required for GIS track students*
  - GEOG:3340 Ecosystem Services: Human Dependence on Natural Systems (3)
  - GEOG:3500 Intro to Environmental Remote Sensing (3)
  - GEOG:3520 GIS for Environmental Studies (3)
  - GEOG:3540 Intro to Geographic Visualization (3)
  - GEOG:3570 Light Detection and Ranging (LiDAR): Principles and Applications (3)
  - GEOG:4010 Field Methods in Physical Geography (3)
  - GEOG:4020 Field Methods: Mapping and Mobile Computing (3)
  - GEOG:4150 Health & Environment: GIS Applications (3)
  - GEOG:4650 Simulation in Enviro. Geography (3)

**Choose one of the following:**
- GEOG:4030 Senior Project Seminar (SP Only) (3)
- GEOG:4995 Honors Thesis (3)

**Choose one of the following:**
- GEOG:4065 Intro to Spatial Analysis: Patterns and Processes (3)
- PSQF/STAT:4143 Intro to Statistical Methods (3)
- PSQF/STAT:1020 Elementary Statistics and Interference (3)
- STAT:2010 Statistical Mapping and Computing (3)
- STAT:3200/IE:3760 Applied Linear Regression (3)
- CS:1210 Computer Science I: Fundamentals (4)
- CS:2110 Programming for Informatics (4)
- CS:2230 Computer Science II: Data Structures (4)
- MATH:1460 Calculus for the Biological Sciences (4)
- MATH:1380 Calculus and Matrix Algebra for Business (4)
- MATH:1380 Calculus and Matrix Algebra for Business (4)

## Statistics Courses, Choose B.A. or B.S.

### For the B.A. (3-4 s.h.)

**Choose one of the following:**
- GEOG:1065 Intro to Spatial Analysis: Patterns and Processes (3)
- PSQF/STAT:4143 Intro to Statistical Methods (3)
- PSQF/STAT:1020 Elementary Statistics and Interference (3)
- STAT:1030 Statistics for Business (4)
- STAT:2010 Statistical Methods and Computing (3)
- STAT:3510 Biostatistics (3)
- STAT:2020 Probability and Statistics for Engineering and Physical Sciences (3)

### For the B.S. (10 s.h.)

**Complete both of the following:**
- STAT:2010 Statistical Mapping and Computing (3)
- STAT:3200/IE:3760 Applied Linear Regression (3)

**Choose one of the following:**
- CS:1210 Computer Science I: Fundamentals (4)
- CS:2110 Programming for Informatics (4)
- CS:2230 Computer Science II: Data Structures (4)
- MATH:1460 Calculus for the Biological Sciences (4)
- MATH:1380 Calculus and Matrix Algebra for Business (4)

## Track Courses, 15-19 s.h.

**Choose one of three tracks (see reverse for course lists):**
- Environmental Studies Track (15 s.h.)
- Geographic Information Science Track (GIS) (18-19 s.h.)
- Health & Society Track (15 s.h.)
Complete the following:
GEOG:1070 Contemporary Environmental Issues (3)

Choose four of the following:
[At least one of these]:
GEOG/EES:2310 Introduction to Climatology (3)
GEOG/BIOL:2374 Biogeography (3)
GEOG:2410 Environment and Development (3)
GEOG:2930 Water Resources (3)
GEOG:3500 Introduction to Environmental Remote Sensing (3)
GEOG:3520 GIS for Environmental Studies (3)

[At least one of these]:
GEOG:3310 Landscape Ecology (3)
GEOG:3315 Ecosystem Ecology (3)
GEOG:3320/EES:3260 Wetlands: Function, Geography, and Management (3)
GEOG:3340 Ecosystem Services: Human Dependence on Natural Systems (3)
GEOG:3350 Urban Ecology (3)
GEOG:3400 Iowa Environmental Policy in Practice (3)
GEOG/GHS:3760 Hazards and Society (3)
GEOG:3920/URP:3001 Planning Livable Cities (3)

Choose one of the following:
CS:1110 Introduction to Computer Science (3)
CS:1210 Computer Science I: Fundamentals (4)
CS:2110 Programming for Informatics (4)

Choose five of the following:
[At least one of these]:
GEOG:3340 Ecosystem Services: Human Dependence on Natural Systems (3)
GEOG/GHS:3760 Hazards and Society (3)
GEOG:4010 Field Methods in Physical Geography (3)
GEOG:4020 Field Methods: Mapping and Mobile Computing (3)
GEOG/GHS:4150 Health & Environment: GIS Applications (3)

[At least one of these]:
GEOG:3370 LiDAR: Principles and Applications (3)
GEOG:4500 Applications in Environmental Remote Sensing (4)
GEOG:4520 GIS for Environmental Studies: Applications (3)
GEOG:4570 Spatial Analysis in Location Models (3)
GEOG:4580 Introduction to Geographic Databases (3)

Complete all the following:
GEOG/GHS:2110 Seven Billion & Counting: Intro to Population Dynamics (3)
GEOG:3110/GHS:3111 Geography of Health (3)
GEOG/GHS:4150 Health & Environment: GIS Applications (3)

Choose two of the following:
GEOG/GHS:3070 Hungry Planet: Global Geographies of Food (3)
GEOG:3210/CPH:3400 Health, Work, and Enviro. (3)
GEOG:3300 Envisioning Future Worlds: Sustainable Development and Its Alternatives (3)
GEOG/GHS:3760 Hazards and Society (3)
GEOG:3920/URP:3001 Planning Livable Cities (3)
GEOG:4770 Environmental Justice (3)