A. COMMON COURSES, 18-23 s.h.

Complete all of 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 and Counting: Introduction to Population Dynamics (3)
- GEOG: 2130 Word 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 Introduction to Environmental Remote Sensing (3)
- GEOG: 3520 GIS for Environmental Studies (3)
- GEOG: 3540 Introduction to Geographic Visualization (3)
- GEOG: 3560 Spatial Analysis of Wind Energy (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 and Environment: GIS Applications (3)
- GEOG: 4650 Simulation in Environmental 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 (1 s.h. required):

- GEOG: 3400 Iowa Environmental Policy in Practice (3)
- GEOG: 3992 Undergraduate Research (Including ICIGO or Independent research) (arr.)
- CCP: 1201 Academic Internship (1-3)

B. STATISTICS COURSES, CHOOSE B.A. OR B.S.

FOR THE B.A. (3-4 s.h.)

Choose one of the following:

- GEOG: 1065 Introduction to Spatial Analysis: Patterns and Processes (3)
- PSQF: 4143/STAT: 4143 Introduction to Statistical Methods (3)
- STAT: 1020/PSQF: 1020 Elementary Statistics and Inference (3)
- STAT: 1030 Statistics for Business (4)
- STAT: 2010 Statistical Methods and Computing (3)
- STAT: 3510/GPI: 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 Methods and Computing (3)
- STAT: 3200/IE: 3760/GPI: 3200 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)

C. TRACK COURSES, 15-19 s.h.

Choose one of three (see reverse for course lists):

Environmental Studies Track (15)
Geographic Information Sciences Track (GIS) (18-19)
Health & Society Track (15)

TOTAL HOURS REQUIRED FOR GEOGRAPHY MAJOR

B.A.: 39-43 s.h. | B.S.: 46-49 s.h.
**Environmental Studies Track, 15 s.h.**

*Complete the following:*

- GEOG: 1070 Contemporary Environmental Issues (3)

*Choose four of the following:*

  - GEOG: 2310/EES: 2310 Introduction to Climatology (3)
  - GEOG: 2374/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: 3210/CPH: 3400 Health, Work, and the Environment (3)
- GEOG: 3310 Landscape 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: 3560 Spatial Analyses of Wind Energy (3)
- GEOG: 3750 Environmental Quality: Science, Technology, and Policy (3)
- GEOG: 3760/GHS: 3760 Hazards and Society (3)
- GEOG: 3920/URP: 3001 Planning Livable Cities (3)
- GEOG: 4010 Field Methods in Physical Geography (3)
- GEOG: 4050 Environmental Impact Analysis (4)
- GEOG: 4770 Environmental Justice (3)

**Geographic Information Science (GIS), 18-19 s.h.**

*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:*

  - GEOG: 3500 Introduction to Environmental Remote Sensing (3)
  - GEOG: 3520 GIS for Environmental Studies (3)
  - GEOG: 3540 Introduction to Geographic Visualization (3)
  - GEOG: 4650 Simulation in Environmental Geography (3)
  - GEOG: 3210/CPH: 3400 Health, Work, and the Environment (3)
  - GEOG: 3310 Landscape Ecology (3)
  - GEOG: 3320/EES: 3260 Wetlands: Function, Geography, and Management (3)

  *At least one of these:*

- 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)

  *At least one of these:*

- GEOG: 3340 Ecosystem Services: Human Dependence on Natural Systems (3)
- GEOG: 3560 Spatial Analyses of Wind Energy (3)
- GEOG: 3760/GHS: 3760 Hazards and Society (3)
- GEOG: 4010 Field Methods in Physical Geography (3)
- GEOG: 4020 Field Methods: Mapping and Mobile Computing (3)
- GEOG: 4150/GHS: 4150 Health and Environment: GIS Applications (3)

**Health & Society Track, 15 s.h.**

*Complete all of the following:*

- GEOG: 2110/GHS: 2110 Seven Billion and Counting: Introduction to Population Dynamics (3)
- GEOG: 3110/GHS 3111 Geography of Health (3)
- GEOG: 4150/GHS: 4150 Health and Environment: GIS Applications (3)

*Choose two of the following:*

- GEOG: 3070/GHS: 3070 Hungry Planet: Global Geographies of Food (3)
- GEOG: 3210/CPH: 3400 Health, Work, and the Environment (3)
- GEOG: 3760/GHS: 3760 Hazards and Society (3)
- GEOG: 3920/URP: 3001 Planning Livable Cities (3)
- GEOG: 4770 Environmental Justice (3)