GEOGRAPHY - LAND USE TRACK B.S.
General Education Requirements
I. Required Skills and Competencies 16 cr
___ ENG 106 Writing Intensive First Year Seminar OR
ENG 110 Advanced Placement Writing (3 cr)
May need ENG 050 Basic Writing first, based on test results
___ HCS 100 Intro to Human Communication (3 cr)
___ Math Competency-Required
MAT 117 Applied Statistics (4 cr)
___ HIS 105 Historical Foundations of Global Cultures (3 cr) AND
___ HIS 106 Thinking Historically in a Global Age (3 cr)
II. Categories of Knowledge 33 cr
A: Logic/Numbers for Rational Thinking (3 cr)

B: Literary, Artistic & Cultural Traditions (9 cr)

C: Biological & Physical Sciences (9 cr)

D: Political, Economic & Geographic Science (6 cr)

E: Social & Behavioral Science (6 cr)

III. Library Skills Completed as part of the College Writing or Advanced Writing course
Required Geography Courses 15 cr
___ GEO 105 Physical Geography (3 cr)
___ GEO 202 GIS I (3 cr)
___ GEO 230 Economic Geography (3 cr)
___ GEO 322 Urban Geography (3 cr) OR
GEO 244 Land Use (3 cr)
___ GEO 391 Geography Seminar (3 cr)
Land Use Track 18 cr
___ GEO 444 Environmental Land Use Planning (3 cr) AND
Select five of the following:
___ ESS 214 Geology of National Parks (3 cr)
___ ESS 413 Mineral & Rock Resources (3 cr)
___ ESS 442 Environmental Geology (3 cr)
___ GEO 244 Land Use (3 cr)
___ GEO 310 Transportation Geography (3 cr)
___ GEO 320 Historical Geography (3 cr)
___ GEO 322 Urban Geography (3 cr)
___ GEO 339 Remote Sensing (3 cr)
Geography Internship
___ Internship Junior Status, 60 cr - 2.0 Required 3 cr
Applied Courses 15 - 17 cr
Computer Science/Math Requirement 7 - 8 cr
Select Course:
___ MAT 117 Applied Statistics (4 cr)
Select 1 Course:
___ CSC 103 Overview of Computer Science (3 cr)
___ CSC 180 Microcomputer Basic (3 cr)
___ CSC 110 Computer Science I (3 cr) AND
___ CSC 106 Computer Science I Lab (1 cr)
Political Science Requirement 6 cr
Select 2 courses: (each course has pre-requisites)
___ PLS 231 State and Local Government (3 cr)
___ PLS 331 Municipal Gov. & Administration (3 cr)
___ PLS 431 Pennsylvania Local Government (3 cr)
___ PLS ### Political Science course by advisement (3 cr)
Research Methods Requirement 3 cr
___ PSY 105 Research Design & Statistics (3 cr) OR
GEO 441 Quantitative Methods (3 cr)

General Education Electives
For Background-Recommend the following:
___ GEO 101 World Geography (3 cr)
___ GEO 103 Geography of the U.S. and Canada (3 cr)
___ GEO 140 Cultural Geography (3 cr)
Geographic Information Systems GIS Certification (optional) 12 cr
Required:
___ GEO 202 GIS I (3 cr)
___ GEO 363 GIS II (3 cr)
Select any 2 courses:
___ GEO 339 Remote Sensing (3 cr)
___ GEO 352 Cartography (3 cr)
___ GEO 420 GIS III (3 cr)
___ GEO 425 Image Processing (3 cr)
___ GEO 440 Field Techniques (3 cr)
___ GEO 441 Quantitative Methods (3 cr)
Free Electives 20+ cr
*Major Requirement Fulfills General Education Credits
Total Graduation Requirements 120 cr

GPA Needed to Declare: 2.0
Helpful Hints for Advising:
Semester I GEO 101 World Geography OR
GEO 103 Geography of U.S. & Canada
GEO 105 Physical Geography
Semester II Core Course
Political Science
General Education courses should be completed as soon as possible