Matching Bloomington Course

New Course Request

Indiana University

Check Appropriate Boxes: Undergraduate credit □  Graduate credit □  Professional credit □

1. School/Division  Liberal Arts
2. Academic Subject Code  GEOG
3. Course Number  G302  (must be cleared with University Enrollment Services)
4. Instructor  Philip Roth
5. Course Title  Intro to Transportation Analysis

Recommended Abbreviation (Optional)  
(Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year):  Fall 2008

7. Credit Hours: Fixed at 3.0  or Variable from  to  

8. Is this course to be graded S-F (only)? Yes  No  XX

9. Is variable title approval being requested? Yes  No  XX

10. Course description (not to exceed 50 words) for Bulletin publication:  Examination of movement of people, goods, and information over space using spatial analysis and planning techniques

11. Lecture Contact Hours: Fixed at 3  or Variable from  to  

12. Non-Lecture Contact Hours: Fixed at 25  or Variable from  to  

13. Estimated enrollment: 25  of which 20  percent are expected to be graduate students.

14. Frequency of scheduling:  Annual  Will this course be required for majors?  No

15. Justification for new course:  Adopting course from IU Bloomington Geog Dept Catalog. Professional experts are available to teach this course in Indianapolis

16. Are the necessary reading materials currently available in the appropriate library?  Yes

17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.  Adopting course syllabi and outline approved in IU-B Geography program

18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.  N/A

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by:  Jeffrey Wilson  Date  3/24/2008
Department Chairman/Division Director

Approved by:  Dean  Date  5-13-08

Dean of Graduate School (when required)  Date

Chancellor/Vice-President  Date

University Enrollment Services  Date

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 724  University Enrollment Services Final—White: Chancellor/Vice-President—Blue: School/Division—Yellow: Department/Division—Pink: University Enrollment Services Advance—White
Course Goals and Objectives:

This is an introductory course in transportation geography and methods of transport analysis. During this course the student will become acquainted with the field of transport geography as it currently exists. There will also be some attention given to transport network development, the economics of transport, transport trends, urban transport planning, and the methods of transport analysis. The methods that we will examine here are primarily quantitative, but the level of mathematical sophistication does not get beyond basic algebra.

Textbook:


Course Grading:

Your course grade for G302/G502 will be based on a midterm (30%) and final exam (30%). These will be multiple choice exams. In addition, 30% of the course grade will be based on a paper. The nature of this paper will be determined after the first class has met. The remaining 10% will be based on attendance, class participation and exercises. Final grades will be based on the following scale: 93-100% = A; 90-92 = A-; 87-89 = B+; 83-86% = B; 80-82% = B-; 77-79% = C+; 73-76 = C; 70-72% = C-; 67-69 = D+; 63-66% = D; 60-62% = D-; and, 00-59% = F.

Attendance:

Class attendance is required and as noted above contributes to your final course percentage.

COURSE OUTLINE AND READINGS:

Among the readings below are some references marked as "Classic works." Students majoring in transport should be familiar with the existence and content of these items. They are not reading assignments.

Aug 31 Introduction to Transportation Geography


Sept 2 Historical Development of Transport


Sept 7 Systems and Trends


Sept 9 Network Analysis I


Classic work: W.L. Garrison and D.F. Marble (1965), A Prolegomenon to the Forecasting of Transportation Developments, Research Report, The Transportation Center at Northwestern University, Evanston, IL.


Sep 14 Network Analysis II


Sep 16 Location of Transport Networks and Links


Sep 21 Flow Analysis I


Sep 23 Flow Analysis II