**Curriculum Proposal**

Please type or select the requested information. Print completed forms, add appropriate paper attachments, and route through MSU's curricular process for recommendations and decisions.

<table>
<thead>
<tr>
<th>College: Social and Behavioral Sciences</th>
<th>Proposal #: Lc</th>
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</thead>
<tbody>
<tr>
<td>Department: Geography</td>
<td>Effective Date of Change: 05-06</td>
</tr>
<tr>
<td>Program: CIP #</td>
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</tr>
<tr>
<td>Type of Change: COURSE PROPOSALS</td>
<td>Course Designator and Number</td>
</tr>
<tr>
<td>Proposed: New Course</td>
<td>Geography 439/539</td>
</tr>
<tr>
<td>Title Current:</td>
<td>Number of Credits: 04</td>
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<tr>
<td>Title Proposed: Transportation Geography</td>
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24-Char. Abbrev: Transportation Geography

Include a course or program description for the Bulletin (30-40 words maximum for courses, 100 for programs):

Four major sets of ideas will be covered: (1) Introduction to Spatial Organization, (2) Network Analysis, (3) Allocation Methods, and (4) Urban Transportation. The emphasis is on these approaches to understanding the geography of transport by description, explanation, and normative or optimal methods.

Rationale or Justification for change:

For General Education or Cultural Diversity Courses Only

<table>
<thead>
<tr>
<th>GE Category #</th>
<th>GE Category Name</th>
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</table>

1 For Writing Intensive Courses, attach a description of the kind and quantity of writing.
2 For Upper Division Courses, include a description of the respects in which it is broad and general rather than narrow and specific, and so suitable as GE.

Attach paper copies of the following:

- Syllabus or course outline.
- Course's student learning outcomes associated with each GE competency or CD designation.
- List of strategies to be used to assess students' achievement of each GE competency or CD designation.

For New Courses

Instructional Type: Lecture

Grading Format: Grade P/N

Course will be offered:

- Fall Semester
- Spring Semester
- Summer Session

Course content or title is similar to courses in other departments. (Attach copy of letter of agreement with other program(s) contacted. Indicate the nature of the discussions and/or resolution of differences or potential conflicts.)

Attach paper copies of the following:

- Syllabus or course outline.
- Course's student learning outcomes.
- A list of resources required to offer and support this course.
- A description of how teaching this course will affect department staffing.
- If 400/500 level course, an explanation of added expectations of graduate students.
<table>
<thead>
<tr>
<th>Department</th>
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<td><strong>Signature Page</strong></td>
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<table>
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<tr>
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Comments:

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Comments:

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<td><strong>Not Recommended</strong></td>
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Comments:

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<th>Senior Vice President and Vice President for Academic Affairs</th>
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<tr>
<td><strong>X</strong> Approved</td>
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<tr>
<td><strong>Not Approved</strong></td>
</tr>
</tbody>
</table>

Comments:
GEOG 439 / 539 Transportation Geography

NOTE: Course title is similar to a course in another department.

See attached copy of letter from David Laverny-Rafter from URSI concerning his department’s support of the new course despite its title similarity to URBS 471/571 Urban Transportation Planning.

Professor Laverny-Rafter’s comments clearly indicate that course contents are complementary in nature and thus are not in conflict.
You forwarded this message on 2/7/2005 3:34 PM.

Kim, Changjoo

From: Laverny-Rafter, David
To: Filipovitch, Anthony
Cc: Kim, Changjoo
Subject: Proposed Transportation Geography course
Attachments:

Tony:

I understand from Changjoo (C.J.) Kim that he has submitted a formal request for the approval of a new course in Transportation Geography (Geog 4/539). C.J. has shared his course syllabus with me and I wish to confirm that I do not see a conflict between this course and the URBS 4/571 Urban Transportation Planning course that we have offered for over 15 years. The proposed Geography course will emphasize technical analysis of networks employed in commercial shipping of goods (including a computer lab). Our URSI course, on the other hand, emphasizes transportation systems that are created to move populations in urban areas via transit and vehicular modes and the public policies and plans involved in reducing congestion and linking transportation and land use. Therefore, I think that not only do these courses not conflict with each other but instead they complement each other and our students will benefit from being exposed to both courses and perspectives. Therefore, I recommend URSI supports Geography in their request of approval for Geog 4/539.

David

David Laverny-Rafter
Professor, Urban and Regional Studies Institute
Minnesota State University, Mankato, MN 56001
Telephone: (507)389-1540
Proposal to Re-Instate Transportation Geography as a Permanent Class in Geography

Geography 439/539: Transportation Geography

Proposal Overview: This proposal concerns the re-instatement of a Geography course that has been taught consistently in the past. Transportation geography was previously taught at MSU. This proposal outlines the intent to establish the general transportation class as a permanent course offering within the discipline of Geography. If approved, this course will be offered every year.

1) Learning outcomes of the course and an attached syllabus

<table>
<thead>
<tr>
<th>Course Learning Outcomes</th>
<th>Means of Assessment</th>
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<tbody>
<tr>
<td>A. Learn fundamental concepts of transportation</td>
<td>A. Exams, quizzes, in-class exercises help students understand lecture materials</td>
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<tr>
<td>B. Learn modeling transport problem</td>
<td>B. Labs and homework help students understand modeling procedures</td>
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<tr>
<td>C. Learn how to utilize transportation software to solve transportation problems</td>
<td>C. Student learn skills and methods of transportation analysis based on weekly labs</td>
</tr>
<tr>
<td>D. Find doable research topics in transportation</td>
<td>D. Readings and discussion on journal articles help students understand the transportation problems</td>
</tr>
<tr>
<td>E. Learn how to apply real-world transport problems</td>
<td>E. Individual project based on local, regional data helps students lead to deep understanding of transportation problems in real world situation.</td>
</tr>
</tbody>
</table>

2) Resources Required to Offer and Support this course:

Existing staff and faculty are adequate to support this course. Supplies for class are available through the bookstore or MSU library. Discussion and presentation media are available in Geography classrooms. TransCad GIS software is necessary to do the labs.
Proposal to Re-Instate Transportation Geography as a Permanent Class in Geography

3) Description of How Teaching this Course will Affect Department Staffing

Existing staff and faculty are adequate to support this course. Teaching this course is also complement to URBS 4/571 Urban Transportation Planning course which mainly focuses on planning perspective.

4) Added Expectations of Graduate Students

Graduate students are required to produce more complex class projects; they are required to present their final project (poster or paper session) at a professional conference, meeting or geography forum with departmental faculty present.

5) Course Description/Bulletin Copy: GEOG 439/539 Transportation Geography

Four major sets of ideas will be covered: Introduction to Spatial Organization, Network Analysis, Allocation Methods and Urban Transportation. The emphasis is on these approaches to understanding the geography of transport by description, explanation, and normative or optimal methods.
Geography 409/509
Geography of Transportation
Fall, 2005
Department of Geography
Minnesota State Univ., Mankato

Class Time & Place: W 11:00 - 11:45 p.m., 1:00 – 3:45 p.m. at 11 Armstrong Hall (AH), 11 AH (GIS Lab)

Instructor: Changjoo (CJ) Kim, Ph. D.
• Office: 7G Armstrong Hall (AH)
• Phone: 507-389-1324 (office)
• e-mail: changjoo.kim@mnsu.edu
• Office Hours: 2:00 - 5:30 p.m. on Tuesday, or by appointment

Teaching Assistant: ??
• Office: ??
• e-mail: ??
• Office Hours: ??

Geography Department:
• Main Office & Mail Room: 7 Armstrong Hall (AH)
• Phone: 507-389-2617

Course Description & Goal:
Geography 409/509 is a 4-credit class that presents a review of the geography of transportation. Four major sets of ideas are discussed: [1] Introduction to Spatial Organization, [2] Network Analysis, [3] Allocation Methods, and [4] Urban Transportation. The emphasis is on these approaches to understanding the geography of transport by description, explanation, and normative or optimal methods. The course includes a computer laboratory portion focusing on learning TransCad software package. Students will use TransCad to learn the skills of transportation analysis through weekly lab exercises and projects that address "real-world" transportation application problems. The course is designed to give students an understanding of transportation geography, their capabilities, uses, and limitations. Relevant applications for different discipline areas are demonstrated in the computer laboratory portion. At the end of the semester, you should achieve goals of the course as follows: [1] familiarize with transportation, [2] manipulate transportation data with

Class web page:
http://www.mnsu.edu/geog/class/kim/geog409-509.html

Textbook:
1. Taaffe, Gauthier, and O'Kelly, 1996, Geography of Transportation (2nd Edition), Prentice Hall

Course Requirements (Grading):
- Quizzes (10 at 1): 10% - There are ten quizzes throughout the semester. Each quiz will be totally based on the book reading and class lecture.
- Labs (10 at 4): 40% - There are ten lab assignments. Lab assignment due is before the next class or specified date on lab sheets. There is 10% deduction penalty per day.
- Project (1 at 10): 10% - The individual project is based on previous labs and is applied to real world situation.
- Midterm Exam (2 at 15): 30% - There are two midterm exams. The midterm exam is objective question formats, such as multiple choice, true/false, matching, fill-in-the-blank and short answer.
- Final Exam (1 at 10): 10% - The final exam is a comprehensive test which covers previous midterm exams. Format is much the same as the midterm exam.

Grading Scale:
- A = 90-100%
- B = 80-89.99%
- C = 70-79.99%
- D = 60-69.99%
- F = 0-59.99% or Failure for non-attendance

Graduating Seniors:
Graduating seniors should notify the instructor no later than the third week of class.

Make-up: No make-ups will be allowed without emergency reasons with written proof.

Final Exam: At the same classroom, ??

Comments:
- Cheating on exams, quizzes, or lab exercises will result in a zero.
- Students are expected to attend each class, and are responsible for their own notes.
- If you are having trouble in class, please come and see me.
I truly believe that this course is two-way Interactive class where we can ask and discuss each other.

Disability Statement:
Any student who feels he or she may need an accommodation based on the impact of a disability should contact me privately to discuss his or her specific needs. Every attempt will be made to accommodate students with documented disabilities. If you are a student with documented disability, please see me as early in the semester as possible to discuss necessary accommodations. Please also contact the Office of Disabilities Services, 117 Armstrong Hall (507-389-2825).

Geography 409/509 Class Schedule: Fall, 2005

Lecture & Lab Schedule*:

Week 1
Lecture1 (1/19/05): Chapter 1: Introduction
Lab1 (1/26/05):

Week 2
Lecture2 (1/26/04): Chapter 1: Spatial Organization
Lab2 (1/26/05):
Quiz1 (2/9/05):

Week 3
Lecture3 (1/31/05): Chapter 2: Economic Aspects
Lab3 (2/2/05):

Week 4
Lecture4 (2/9/05): Chapter 7: Spatial Interaction
Lab4
Quiz2 (2/9/05):

Week 5
Lecture5 (2/16/05): Chapter 14: Spatial Interaction
Lab5
Quiz4 (2/16/05):

Week 6
Lab5 (2/21/05):
Week 6
Midterm I (10/5/05): Midterm Exam I for Chapters 1, 2, 7, 14
Conference: GIS/LIS 15th Annual Meeting, St. Cloud, MN

Week 7
Lab6 (10/12/05): Chapter 9: Networks
Lecture6 (10/12/05): 

Week 8
Lab7 (10/19/05): Chapter 9: Networks
Lecture7 (10/19/05):
Quiz5 (10/19/05):

Week 9
Lab8 (10/26/05): Chapter 13: Networks
Lecture8 (10/26/05):
Quiz6 (10/26/05):

Week 10
Lab9 (11/2/05): Chapter 10: Allocations
Lecture9 (11/2/05):
Quiz7 (11/2/05):

Week 11
Lecture10 (11/9/05): Chapter 10: Allocations, Midterm II Exam Review
Lab10 (11/9/05):
Quiz8 (11/9/05):
Handout (11/9/05): Midterm II Exam Study Guide Handout
Discussion (11/9/05): Individual Transportation Project Discussion

Week 12
Midterm II (11/16/05): Midterm Exam II for Chapters 9, 10, 13

Week 13
Lab11 (11/23/05):

Week 14
Lecture12 (11/30/05): Chapter 8, 12: Urban Transportation
Lab12 (11/30/05):
Quiz9 (11/30/05):

Week 15
Lecture13 (12/7/05): Individual Transportation Project Presentation
Lab13 (12/7/05):
Quiz10 (12/7/05):
Handout (12/7/05): Final Exam Study Guide Handout

Week 16
Final* (12/14/05): Final Exam for Chapters 6, 8, 12 & Midterm Exams Coverage

October 3-5, 2005, The Fifteenth Annual Mn GIS/LIS Conference and Workshops, St. Cloud, MN.

# Class contents can be changed according to the instructor during the semester.

* All assignments are due.
December 19, 2005

To Whom It May Concern:

This is a letter of transportation geography proposal changes. Transportation Geography (GEOG 4/539) will meet in lecture for 3 hours per week and lab for 2 hours per week. Please see syllabus for more details. If I can be of further assistance, please contact me at 507-389-1324 or changjoo.kim@mnsu.edu.

Sincerely,

Changjoo Kim, Ph. D.
Assistant Professor
Department of Geography
7 Armstrong Hall
Mankato, MN 56001
Phone: 507-389-1324
Fax: 507-389-2980
Geography 439/539
Transportation Geography
Fall, 2006
Department of Geography
Minnesota State Univ., Mankato

Class Time & Place: W 9:00 - 11:45 a.m. (Lecture), 2 hrs TBA (Lab) at 11 Armstrong Hall (AH)

Instructor: Changjoo Kim, Ph. D.
- Office: 7G Armstrong Hall (AH)
- Phone: 507-389-1324 (office)
- e-mail: changjoo.kim@mnsu.edu
- Office Hours: 2:00 - 5:30 p.m. on Tuesday, Thursday or by appointment

Geography Department:
- Main Office & Mail Room: 7 Armstrong Hall (AH)
- Phone: 507-389-2617

Course Description & Goal:
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Class web page:
http://www.mnsu.edu/geog/class/kim/geog409-509.html
Textbook:
1. Taaffe, Gauthier, and O'Kelly, 1996, Geography of Transportation (2nd Edition),
   Prentice Hall → Armstrong Hall Copy Room $38.75
4. Lang, Laura, 1999, Transportation GIS, ESRI

Course Requirements (Grading):
- Quizzes (10 at 1): 10% - There are ten quizzes throughout the semester. Each quiz will be totally based on the book reading and class lecture. If quizzes are done less than 10, each will be proportionally allocated to the total point.
- Labs (10 at 3): 30% - There are ten lab assignments. Lab assignment due is before the next class or specified date on lab sheets. There is 10% deduction penalty per day. If labs are done less than 10, each will be proportionally allocated to the total point.
- Homework (5 at 2): 10% - There are five assignments throughout the semester. If assignments are done less than 5, each will be proportionally allocated to the total point.
- Project (1 at 10): 10% - The individual project is based on previous labs and is applied to real world situation. The project is evaluated by both oral presentation and paper.
  - The paper must include followings with 12 sized Tahoma font in double space
    - Introduction
      - Problem statement
      - Goal
      - Background
    - Literature Review
    - Methodology
    - Results
    - Conclusions
    - References
- Midterm Exam (1 at 20): 20% - The midterm exam is objective question formats, such as multiple choice, true/false, matching, fill-in-the-blank and short answer.
- Final Exam (1 at 20): 20% - The final exam is a comprehensive test which covers previous midterm exams. The format is much the same as the midterm exam.

Grading Scale:
- A = 90-100%
- B = 80-89.99%
- C = 70-79.99%
- D = 60-69.99%
- F = 0-59.99% or Failure for non-attendance
Graduating Seniors:
Graduating seniors should notify the instructor no later than the third week of class.

Make-up: No make-ups will be allowed without emergency reasons with written proof.

Final Exam: At the same classroom, 9:00 a.m.-11:00 a.m., Wednesday, December 13th, 2006.

Comments:
- Cheating on exams, quizzes, or lab exercises will result in a zero.
- Students are expected to attend each class, and are responsible for their own notes.
- If you are having trouble in class, please come and see me.
- I truly believe that this course is two-way interactive class where we can ask and discuss each other.

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Geography 439/539 Class Schedule: Fall, 2006

Lecture & Lab Schedule#:

Week 1
Lecture1
Chapter 1: Introduction

Week 2
Quiz1
Lecture2
Lab1
Assignment1
Chapter 1
Chapter 1: Spatial Organization
Introduction to Maptitude
Nystuen-Dacey Method

Week 3
Quiz2
Lecture3
Lab2
Assignment2
Chapter 1
Chapter 2: Economic Aspects
Finding Best Route using Maptitude
Transportation Current Issues

Week 4
Quiz3
Chapter 2
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<td>Lecture6</td>
<td>Chapter 11: Spatial Interaction II</td>
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<td>Lab5</td>
<td>Introduction to Network Analysis</td>
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<td>Handout</td>
<td>Midterm Exam Study Guide Handout</td>
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<td>International Academy of Business and Economics 2006 Annual Conference, Las Vegas, NV</td>
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<td>Presentation</td>
<td>Individual Transportation Project Presentation</td>
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<td>Week 16</td>
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<td>Final*</td>
<td>Final Exam for Chapters 6, 8, 9, 10, 12, 13</td>
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1 The Sixteenth Annual Mn GIS/LIS Conference and Workshops, St. Cloud, MN.

2 International Academy of Business and Economics 2005 Annual Conference, Las Vegas, NV.

# Class contents can be changed according to the instructor during the semester.

* All assignments are due.
CS1101UG
Abbreviated Title: GEOG 0A TRANSPORTATION
Session Type: O 4 Session Dates: Begin 04 End 04
Normal Credit: 0.4
Maximum Credit: 0.4
Variable Credit: False (e.g. 1 through 4)
Continuous or Alternate (e.g. 1 or 4)
Partition Pref.
Features Pref.

CS1106UG
Begin/End Time: 9:00 - 12:00
Days: W
Bldg./Rm.: AA 111
Instructor Tech ID: 8040116
Last Name: KIM
First Name: CHANG

CS1108UG
Begin/End Time: 2:45 - TBA
Days: 
Bldg./Rm.: 
Instructor Tech ID: 
Last Name: 
First Name: 

CS1113UG
Begin/End Time: 
Days: 
Bldg./Rm.: 
Instructor Tech ID: 
Last Name: 
First Name: 

CS1115UG
Cross Listed Course:
Subject: GEOG Number 539 Sect. 01 Enrollment Limit: 008 Grading Method: 
Special Message (9999) (attach additional pages if needed)

CS1119UG
Print Schedule? 
Printable Messages 
Additional Course Cost: 

Dept. GEOG Dept. Chairperson: 
Date: 12/1/05
Term: 20073 Dean of College: 
Date: 
Rev. 4/00
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<td>ELEMENTS</td>
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<td>9am-12pm</td>
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<td>URBAN</td>
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<td>101-01</td>
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**Note:**
- **DEPARTMENT OF GEOGRAPHY**
- **FALL, 2006**
- **Ext. Campus**
- **ALASOW**
  - 120 or 103
  - N. Mankato M
- **ALASOW**
  - 100 or 102
  - Fri Collage 12-3
- **PERKINS**
  - 100 OR 101
  - Edam Fran. T
- **PERKINS**
  - 100 OR 101
  - Farbatau R
- **LONGSTRO**
  - 101 Intro Phys, Belle Plaine M