1. Will this course revision affect a current program?  [ ] Yes  [x] No
   If "yes", has a Program Revision Form been submitted concurrently?  [ ] Yes  [ ] No

2. Teaching Department:  GEOG

3. Administering Faculty/Unit:  SCIENCE

4. Campus
   (Downtown, Macdonald, Off Campus, Distance Ed, Other – specify)
   DOWNTOWN

5. Effective Term of Implementation
   (Ex. Sept. 2004 = 200409)
   Term:  JANUARY 2006  [ ] Retirement

6. Credit Weight
   (or CEU's for non-credit CE courses):
   3
   Old Credit Weight or CEU's (if applicable)

7. Course Number(s)
   Indicate course number & the number of terms spanned:
   (tick all that apply)
   Subject/course number:  GEOG 506
   Course(s) Span:
   [ ] 1 term
   [x] 2 consecutive terms (D1, D2)
   [ ] 2 non-consecutive terms (N1, N2)
   [ ] 3 terms (J1, J2, J3)

8. Number Change From:

9. Consolidation of Courses:

10. Split of Multi-Term Course:

11. Course Title (Limit 30 char.) - required for all courses.
    ADV GEOGRAPHIC INFORMATION SCI
    Old Course Title (if applicable)
    PERSPECTIVES ON GEOGRAPHIC INFORMATION SYSTEMS

12. Course Title to Appear in the Calendar (Optional)
    (Limit 59 characters):
    Note: This can ONLY be an expansion of word(s) abbreviated in
    the 30 character course title in Box 11.
    ADVANCED GEOGRAPHIC INFORMATION SCIENCE

13. Schedule Type(s):
    (Enter all that apply – see form, STVSCHD in Banner for a complete list.)

<table>
<thead>
<tr>
<th>Hours per Week</th>
<th>Hours per Week</th>
<th>Hours per Week</th>
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<tbody>
<tr>
<td>Lecture</td>
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<td></td>
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<tr>
<td>Lab</td>
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   Total Hours per Week: 3
   Total Number of Weeks: 13

14. Projected Enrolment:
   15
15. Revised Prerequisite(s) (Courses or Tests) (in full)
Specify course number(s) or name(s) of test(s):

| GEOG 201, GEOG 307 and permission of instructor |

If the student does not have a prerequisite should web registration be blocked?

- [ ] Yes
- [x] No

If “Yes” complete A and B:

A. Indicate minimum grade or test score(s) the student must attain in prerequisite course(s) or test(s):

| Passing grade in prerequisites |

B. Can the prerequisite course(s) or test(s) be taken in the same term as this course?

- [ ] Yes
- [x] No

Old prerequisite course number(s) or test score title(s) (if applicable):

| GEOG 201, GEOG 306 and permission of instructor |

16. Revised Corequisite(s) Course Number(s) (in full):
Specify course number(s):

| |

If the student does not register for the corequisite in the same term should web registration be blocked?

- [ ] Yes
- [ ] No

Old corequisite(s) course numbers (if applicable):

| |

17. Additional Course Charges (must be approved by the Fee Policy Committee)
Description of Fee (e.g. screening fee) Amount

| |

18. Requires Teaching, Physical, or Financial Resources
Not Currently Available (attach explanation)

- [ ] Yes
- [ ] No

19. Consultation Reports Attached

- [ ] Yes
- [x] N/A

20. Other Information (specify):

| |

21. Course Description
(as it will appear in the Calendar [maximum 50 words]):
(N.B. Faculty of Medicine must append complete course outline)

Critically analyze major themes in geographic information science and draw out the practical ramifications for spatial technologies and research. Topics such as spatial interoperability, data quality, scale, visualization, location based services and ontologies are covered. Apply GIScience theories to individual or group projects.

22. Supplementary information to appear in the Calendar in addition to the course description.
Such as: registration restriction(s), prerequisite(s), corequisite(s), equivalent course(s), contact hours, enrolment limitations, language of instruction etc.
Please enter the information as it should appear in the calendar notes.

Old Course Description:
Examination of a range of applications in automated processing of spatial data. Discussion will focus on both theoretical and practical aspects of Geographic Information Systems. Topics such as resource data base structure, methods of spatial interpolation and data quality and errors are covered. The application of Geographic Information Systems such as GRASS and digital image processing routines are used to answer questions in geographical research. Individual student projects will be emphasized.
23. Rationale

For changing the name of the course: The name has been changed from PERSPECTIVES ON GEOGRAPHIC INFORMATION SYSTEMS to ADVANCED GEOGRAPHIC INFORMATION SCIENCE. The new name is consistent with other courses in the Geographic Information Science (GIScience) stream and gives students a clearer sense of the progression of GIScience courses. Moreover, the new name emphasizes the science and theory behind geographic information handling and de-emphasizes the software instruction.

For changing the description of the course: The new description reflects the addition of new GIScience and Remote Sensing faculty who have reorganized the content of lower level GIScience courses as well as the other 500 level GIScience course (GEOG 535). GEOG 535 now contains several of the elements formerly in the GEOG 506 course description (e.g., GRASS and digital image processing).

For changing the prerequisites: Only one prerequisite has been changed: from GEOG 306, Raster Geo-information Science to GEOG 307, Socioeconomic Applications of GIS. The new prerequisite reflects the addition of new GIScience and Remote Sensing faculty who have reorganized the content of lower level GIScience courses so that the knowledge base feeding into GEOG 506 has changed. Additionally, GEOG 506 has changed to more directly advance elements taught in GEOG 307; whereas, GEOG 535 advances elements taught in GEOG 306.

### INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR’S OFFICE

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<th>To be completed by ARR</th>
<th>For Continuing Education Use</th>
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<td>To Non-Grant Courses:</td>
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### 24. Approvals:

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<tr>
<th>Routing Sequence</th>
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<th>Departmental Chair</th>
<th>Other Faculty</th>
<th>Curric/Academic Committee</th>
<th>Faculty</th>
<th>SCTP</th>
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<td>Departmental Contact Person (name/phone/email)</td>
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Course Revision Form C2-3