

Syllabus for GEOS 492/692 - Remote Sensing and GIS Seminar

1. Course information:

Title: Remote Sensing and GIS Seminar
Number: GEOS 492/692
Credits: 1
Prerequisites: Graduate standing or Permission of Instructor
Location: Seminars – Elvey Auditorium, Discussions – WRRB 101
Meeting time: 1.45 to 2.45 p.m.

2. Seminar Coordinator (Instructor of Records):

Rudiger Gens, 511 K Elvey Building, Tel: 474 7621; email: rgens@sf.alaska.edu

3. Course readings/materials:

Research papers and other reading material as provided by the seminar coordinator

4. Course description:

A seminar series on topics related to principles, techniques and applications of Remote Sensing and Geographic Information Systems (GIS). It is meant to expose students to current research and developments in these rapidly advancing fields.

5. Course Goals and Student Learning Outcomes

Goal: The goal of this course is to keep students up-to-date with the principles, tools and applications in the field of remote sensing and GIS.

Student Learning Outcomes: By participating in the seminar and its related activities, students will be able to

- *Follow and learn* about principles, tools, and applications of remote sensing and GIS and recent advances in these fields
- *Summarize* in written form, the contents of technical papers and oral presentations
- *Critique* technical presentations for contents and presentation styles.
- *Realize and appreciate* the multidisciplinary nature of the fields of remote sensing and GIS.

6. Instructional methods:

- Bi-weekly seminars presented on selected topics by speakers from within and outside the University of Alaska Fairbanks.
- Distribution of technical papers and relevant reading material prior to the seminar, on a related topic, to help students be better prepared before coming to the seminar ensuring that they gain more out of the same seminar.
- Discussions about the presentations and reading assignments in the alternate weeks.

7. Course calendar:

Weekly schedule that will depend on the day and time carefully selected after looking into the schedules of other ongoing remote sensing and GIS courses on campus. Speakers and topics will vary each semester.

8. Course policies:

Attendance in seminar is essential. For some reason, if the course participant can not be present for the seminar they should inform the instructor in advance and discuss the possibilities of making up for the absence, if this is possible.

9. Evaluation:

The course is stacked and can be taken either at 400 level or at 600 level. At both levels the course will have Letter Grades. The course can be taken no more than twice for repeat credits. This means that the maximum number of credits students can earn from this seminar series is two.

If students take the seminar for a 600 level, then they will be required to attend six of the seven seminars and write a two to three page critique of any six of the seven seminars. They will also be required to complete all reading assignment and participate in at least six out of the seven discussions.

If students take the seminar for a 400 level, then they will be required to attend five of the seven seminars and write a one to two page critique of any five of the seven seminars. They will also be required to complete six of the seven reading assignment and participate in at least five of the seven discussions.

Grades received will be based on attendance in seminars and discussions, timely submission of critiques, and the quality of these submissions.

10. Disabilities Services:

The seminar coordinator will work with the Office of Disabilities Services to provide reasonable accommodation to students with disabilities.