

FRSC 489/102

Special Topics - Introduction to Spatial Sciences

(1 Credit)

Instructors: Dr. R. Srinivasan
Office: 221E Centeq Building B, 1500 Research Parkway
Phone: 845-5069
Email: r-srinivasan@tamu.edu

Office Hours: By appointment only. Please contact via email.

Prerequisite(s): None

Lecture: T 11:10 – 12:00

Text: No textbooks are required for this course.

Course Objectives:

The objective of this course is to provide students with an understanding of the spatial sciences, how they are applied for problem solving in a wide variety of fields, and what opportunities are available to professionals in the spatial sciences.

Attendance:

Make-ups on class assignments will not be allowed unless the student has a university-excused absence.

Grading:

Class Participation (attendance and class discussion/participation) 50 pts.
Assignments (written summary of weekly class presentations) 50 pts

Lecture Topics

- | | |
|---|---------|
| 1. General: What are the spatial sciences? | Week 1 |
| 2. Principles of Geographic Information Systems (GIS) | Week 2 |
| 3. GIS: hands-on lab | Week 3 |
| 4. Principles of Global Positioning Systems (GPS) | Week 4 |
| 5. GPS: hands-on lab | Week 5 |
| 6. Principles of Remote Sensing | Week 6 |
| 7. Remote Sensing: hands-on lab | Week 7 |
| 8. Water and flood study applications | Week 8 |
| 9. Emergency response | Week 9 |
| 10. Watershed modeling projects | Week 10 |
| 11. Wildlife management | Week 11 |
| 12. Natural resource management | Week 12 |
| 13. Environmental Consulting | Week 13 |
| 14. Urban Planning | Week 14 |

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Student Life, Disabilities Services Officer B116 Cain Hall, or call 979-862-4570.

Aggie Code of Honor: An Aggie does not lie, cheat or steal or tolerate those who do.

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

For additional information please visit: www.tamu.edu/aggiehonor/