

## **FRSC 489/102**

Special Topics - Introduction to Spatial Sciences

(1 Credit)

**Instructors:** Dr. R. Srinivasan  
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**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

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|---|---------|
| 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 |

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