Emphasis: Utilizing geographic information system, database management, and global positioning system technologies to capture, store, manipulate, and analyze spatial and non-spatial data. A possible, additional topic includes investigating spatial metrics to quantify the spatial pattern and composition of natural resource features.

Objectives:
1. Relational database management techniques for managing large datasets.
2. Principles and applications of geographic information systems (GIS) for creating, storing, analyzing, and displaying spatial and non-spatial data.
3. Principles of spatial metrics in order to describe such ecologically important relationships as connectivity and adjacency.

Class: MWF 11:30 – 12:20
263 Ag Hall

Instructor: Mark Gregory
Office: 560 Agriculture Hall
E-mail: mark.gregory@okstate.edu
Office Hours: 8:00-10:00 M-F

Grades:
Student performance in the class will be evaluated on the basis of 1000 points distributed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>500</td>
</tr>
<tr>
<td>Special Project</td>
<td>200</td>
</tr>
<tr>
<td>1 hr Midterm exam, March 9, 2016</td>
<td>100</td>
</tr>
<tr>
<td>45 min Oral exam, April 13-15, 2016</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam, May 4, 2016, 10:00-11:50 AM</td>
<td>100</td>
</tr>
</tbody>
</table>

Total scores of 900, 800, 700, and 600 points will be sufficient to earn grades of A, B, C, and D, respectively. Individual, forty-five minute oral exams will be held April 13, 14 or 15, 2016. Students must sign up for an oral exam time by April 11, 2016.

Suggested Textbooks:
- Getting to Know ArcGIS Desktop by Law and Collins, ESRI Press

Attendance Policy:
Students are expected to attend each class, but no formal attendance will be kept.
Policy on Late Work:
Assignments will be made throughout the class to teach skills and to illustrate concepts. These will include, but not be limited to, computer-based exercises, manual computations, writing detailed English answers to questions and/or descriptions of analytic processes, and collection of field data with GPS equipment. **Scores on assignments and project will be reduced 10% per class period for work turned in late. Assignments are considered late if not turned in to the instructor or the On-Line Classroom by 5 PM on the date due. No credit will be given for any assignment or work turned in after 5 PM April 29, 2016.**

Class Project:
Each class member is expected to complete comprehensive project on a topic proposed by the student and approved by the Instructor. A project proposal is due to the Instructor by **March 11, 2016.** Completed projects are due by **April 22, 2016.** A presentation of the completed project by the student will take place during class on **April 25, 27, or 29, 2016.**

Honesty and academic integrity:
I recognize the learning that can often take place by working with other students in class. As such I encourage you to interact with others, but I also expect the work you turn in to be your own work. **Copies of other student’s work turned in as your own will be given a zero (0) grade. Student caught cheating or guilty of plagiarism will be subject to actions under OSU’s academic integrity policy.**

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript (F!), and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, also see [http://academicintegrity.okstate.edu](http://academicintegrity.okstate.edu).

Extra Costs: Students may need to provide media for storing data and assignments.

General Policies: See University Academic Policies for information on Enrollment Information, Important Dates, Drop and Add Procedures, Academic Integrity, etc. at [http://registrar.okstate.edu](http://registrar.okstate.edu)