Spring 2016

IST 322: sec.201–Assessment 1: Terrestrial Systems

4 hrs CRN 3695

12:30 pm – 1:45 pm TR lecture (in ML commons);

2 pm– 3:50 pm W lab and/or 4 pm to 6pm R

**Instructor:**

Thomas G. Jones

Office: Morrow G 115 E-Mail: [Jonest@Marshall.edu](mailto:Jonest@Marshall.edu) Cell phone: 389-5832

**Required Texts:**

*Foundations of Ecology* 1991 Leslie A. Real and James H. Brown eds. ISBN-13: 9780226705941 University of Chicago Press

*1491:* 2006by Charles Mann ISBN-13: 9780307278180 COPIA LLC

Tree identification book

**Course Description:**

Use of scientific procedure and current technology to characterize and quantify sensitive elements of terrestrial ecosystems and to assess human impact on those systems.

**Course Student Learning Outcomes and Assessment Measures:**

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| --- | --- | --- |
| Course Student Learning Outcome | How Practiced in this Class | How Assessed in this Course |
| Develop understanding of digital, spatial imagery and its relationship to geographic grid systems | Class lecture (CL), Hands on examples and discussion (HOED) | Labs, Homework, Exams, Project |
| Competency to use GPS technology | CL, HOED | Labs, Homework, Exams, Project |
| Integration of data from GPS and database sources into GPS software for manipulation and transition of data types | CL, HOED | Labs, Homework, Exams, Project |
| Inclusion of data and imagery into GIS system | CL, HOED | Labs, Homework, Exams, Project |
| Use the most current methods to analyze the distribution of plant communities and relate their distribution to their adaptations and the environments in which they occur | CL, HOED | Labs, Homework, Exams, Project |
| Use the most current methods to analyze diversity of animal communities and the niche parameters that control their interactions and distributions | CL, HOED | Labs, Homework, Exams, Project |
| Examine how local initiatives can more effectively use energy and land resources to develop true green and sustainable communities | CL, HOED | Labs, Homework, Exams, Project |
| Connect effective communication and illustration to public awareness of land use and its connection to entrepreneurship | CL, HOED | Labs, Homework, Exams, Project, presentations |

**Class Attendance:** In this course the instructor will require active participation of each student during each class meeting. Class participation points and homework will only be accepted late, when accompanied with appropriate documentation. By missing class you will not be able to participate in class discussions and the class will not benefit from your ideas and comments. If you are absent, you must contact the professor as soon as possible.

**Students with Disabilities:** Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities.  University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability.  Following this, the DSS Coordinator will send a letter to each of the student’s instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading.  The instructor and student will meet to discuss how the accommodation(s) requested will be provided.  For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 11, phone 304-696-2271.”

The reason for this request is so that students with disabilities understand both their rights and responsibilities regarding requesting accommodations.

**Policy on Academic Dishonesty:** I take cheating very seriously. I will follow the student handbook on definitions and actions precisely.

**Other Policies:**

This URL can be used to access the University wide policies concerning a host of student concerns/issues.

<http://www.marshall.edu/academic-affairs/?page_id=802>

By enrolling in this course, you agree to the University Policies listed.

**Requirements:**

Assignments Possible Points

Class Participation 200 pts

Group Presentation/Project 200 pts

Journal presentations 100 pts

Quizzes 100 pts

Knowledge Celebration 1 100 pts

Knowledge Celebration 2 (final) 100 pts

Total: 800 pts

**Assignment Details:**

1. A series of activities will be completed by students both individually and within small groups. The results will be submitted via email.
2. A small group of students will present the results of a group project using power point. The groups and the projects will be chosen by the students but verified by the professor.
3. Ten 10 point quizzes will be given throughout the course. The quizzes will cover material discussed during the last class and material read from the current chapter readings.
4. Small student groups will present a summary of an article to the rest of the class using power point.
5. Two 100 point exams will be given at midterm and at the end of the course.

**No makeups will be given without a University excused absence.**

**Grading Scale:**

90% - 100% = A

80% - 89% = B

etc…

**Office Hours**

Tuesday/Thursday 2:00 pm to 4 pm; Wednesday 9 AM to 11 AM, 1 PM to 5 PM by appointment; or by appointment

**Schedule**

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| **Date** | **Assignments** |
| Week 1 Jan 9 |  |
| Week 2 Jan 16 | Paper 16: Homagae to Santa Rosalia |
| Week 3 Jan 23 | Paper 39: Experimental zoogeography of Islands |
| Week 4 Jan 30 | Paper 32: Population Ecology of some warblers of Northeastern |
| Week 5 Feb 6 | Paper 2: The Ecological Relations of the Vegetation on the Sand Dunes of Lake Michigan |
| Week 6 Feb 13 | Homework: Review for Midterm |
| Week 7 Feb 20 | Midterm |
| Week 8 Feb 27 | Paper 3: Nature and Structure of the Climax |
| Week 9 March 6 | Paper 5: The Niche-Relationships of the California Thrasher |
| Week 10 March 13 | Paper 36: Experimental Studies on Predation: Dispersion Factors and Predator-Prey |
| Week 11 March 20 | Spring Break |
| Week 12 March 27 | **Dr. Jones at mussel conference Cleveland, OH**  **No classes this week** |
| Week 13 April 3 | Paper 38: Food Web Complexity and Species Diversity |
| Week 14 April 10 | Paper 30: Climatic Changes in Southern Connecticut Recorded by Pollen Deposition at Rogers Lake |
| Week 15 April 17 | Paper 26: An Ordination of a the Upland Forest Communities of Southern Wisconsin |
| Week 16 April 24 | Group Presentations |
| May 2 | Final Exam 12:45 |