

CASPER COLLEGE COURSE SYLLABUS
Advanced GIS, Geog 2100

Semester/Year: Fall 2015

Lecture Hours: 2

Lab Hours: 2

Credit Hours: 4.0

Work to be assigned outside of class.

Time: 4:30-8:20pm

Days: Lect/Lab:Wednesday

Room: GW 210

Instructor's Name: Jeff Sun

Instructor's Contact
Information: Jeff Sun

Office Phone: 268-3560
Office Number: GW 116G
Email: jsun@caspercollege.edu

Office Hours: M: 11-11:50am; T: 4-5pm; W: 11-11:50am; TH: 11:11:50pm or by appointment

Course Description: An Advanced GIS course where the student will be split up into teams and will be given a Case Study from an outside client and solve the Case Study using GIS. At the end of the semester the teams will present the solution to the client in a presentation

Statement of Prerequisites: **Geog 1100 – Intro to GIS, and Geog 1110 – Mang. And Implem. Of GIS**

Goal: 1. Have the experience in working with a team on a GIS projects.
2. Be able to design a GIS project
3. Be able to use GIS techniques to solve real world problems

Outcomes:

1. Understand the legal issues in solving a GIS problem.
2. Understand the ethical issues in solving a GIS problem.
3. Demonstrate effective oral and written communication
4. Solve problems using critical thinking and creativity
5. Use appropriate technology and information to conduct research

Methodology: This class is a combination of lecture and computer lab work.

Evaluation Criteria: Project Proposal – 150 points
Proposal Presentation – 100 points
Progress Report Presentation – 100 points
Group Participation (Including Journal) – 200 points
Project Report and Completed Project – 250 points
Final Presentation – 100 points

Total = 900 points

Required Text, Readings, and Materials: There is no required text; readings will be handed out as necessary.

Class Policies: Grades will be based on participation in the group and completion of the GIS project. Attendance is required for both Lab and Lecture unless documented circumstances occur that will be outlined in the students journal. There will be a 10 point penalty for each absence.

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, and lastly the vice president for academic affairs.

Academic Dishonesty - (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations

Important Dates:

Aug. 26 – Announcement of Projects and Formation of Teams

Sept 2– Meet with Clients and instructions on projects

Sept. 16 – Proposal Due and Proposal Presentations

Oct. 21 – Progress Report Due for Each team

Nov. 25 – no class, Thanksgiving

Dec 9 Final Project Presentation Rehearsals

Dec. 10 – Presentation to Clients

Journal to be turned in through out the semester every two weeks

Possible Topics to be included through out semester, also any that you would want.

1. Intro to Class Projects
2. Designing GIS Projects
3. Needs Assessment
4. Ethical Concerns
5. The Law and GIS
6. GIS and Organization
7. Accuracy and Precision of Data

8. Proposal Writing
9. Final Report Writing