

CASPER COLLEGE COURSE SYLLABUS
Management and Implementation of GIS
Geog 1110

Semester/Year: Fall 2015

Lecture Hours: 2.0

Lab Hours: 2.0

Credit Hours: 4

Additional Time Outside of class to be assigned

Class Time: 5pm – 8:50pm

Days: Tuesday

Room: GW 210

Instructor's Name: Jeff Sun

Instructor's Contact
Information:

Office Phone: 268-3560
Office: 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: This course addresses strategies for successful GIS management and implementation in an organization-wide context and is organized around three primary issues: implementation planning, data management, and GIS problem solving in the workforce

Statement of Prerequisites: Geog 1100

- Goals
1. Students will design and implement a GIS based project that includes relevant analysis and evaluation techniques.
 2. Students will apply database models for GIS to solve geographical problems

- Outcomes:
1. Students will recognize the development and implementation of GIS in a variety of geographical projects.
 2. Students will evaluate database design and management in GIS applications.
 3. Solve problems using critical thinking and creativity
 4. Use appropriate technology and information to conduct research

Methodology: **Lecture/Lab combination**

Evaluation Criteria: *Grading Criteria:*

10 Labs – 10 points each: 100 Total Points
2 Tests – 100 points each: 200 Total Points
Final Project – 100 points: 100 Total Points
400 Total Points

A 90-100%
B 80-89%
C 70-79%

D 60-69%
F <60%

Required Text, Readings, and Materials: Provided in Class.

Class Policies: **Students are expected to attend lecture and lab. There will be no make up for exams. Loss of points will result in homework or labs not turned in on time.** Student will receive 3 free tardies. If late to class after 3 the student will be docked 5 points every time they are late. Student will also get 3 free absences, after 3 the student will be docked 10 points for absences unless other arrangements are made.

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

Calendar or schedule indicating course content:

Date:

1	Aug 25	<i>Acquiring Digital Data</i> Types of Data	Lab 1. Data familiarization
2	Sept 1	<i>Creating Digital Data</i> Importing tabular data Manual entry of data	Lab 2. Tabular Data
3	Sept 8	<i>Managing Digital Data</i> Data collection techniques Organizing data	Lab 3. GeoDatabases
4	Sept 15	<i>Projections</i> Projection descriptions Coordinate Systems	Lab 4. Scale and Projections

5	Sept 22	Exam 1: Weeks 1-4	
6	Sept 29	<i>Cartography & GIS</i> Using cartographic techniques in map development Mapping techniques	Lab 5. Raster Analysis with respect to watershed analysis
7	Oct 6	<i>GPS Exercise working with new Trimbles and tablets</i>	Lab 7. GPS
8	Oct 13	<i>GPS Ex. Continued</i>	GPS Continued
9	Oct 20	No Class Fall – Fall Break	
10	Oct 27	Exam 2: Weeks 6-9	
11	Nov. 3	<i>GIS and the Workplace</i> Expectations for GIS professionals Real-world job skills	Modeling 3D Worlds Hand out Project Instructions
12	Nov 10	<i>GIS Project Management</i> Preparing for a project Managing resources	Turn in Project Abstracts
13	Nov 17	GIS project	GIS Project Work on Final Projects
14	Nov 24	GIS project	GIS project
15	Dec 1	GIS Project	GIS Project
16	Dec 8	Hand In GIS Project	