

ARIZONA WESTERN COLLEGE
SYLLABUS

GST 103 Data Acquisition and Management

Credit Hours: 2 Lec 2 Lab 1

PREREQUISITE: GST 101

COURSE DESCRIPTION

This course addresses the interpretation and understanding of a variety of data formats available in Geographic Information Systems (GIS).

1. COURSE GOALS

- 1.1 Compile, analyze, and present geospatial data while emphasizing the value of visual communication.
- 1.2 Understanding of the methods and theories of geospatial databases.
- 1.3 Locate different types of spatial data and compile into a geospatial database.

2. OUTCOMES

Upon satisfactory completion of this course, students will be able to:

- 2.1 describe the collection of field data, digital conversion of existing hardcopy maps, and the construction of spatial data from known locations.
- 2.2 collect, record, and utilize spatial data and databases.
- 2.3 collect, create, and process spatial data within a variety of environments.
- 2.4 describe and explain the similarities and differences between data models as well as how data is treated differently within each format, to include the conversion of data between different formats.
- 2.5 describe the concepts and applications of remote sensing, Global Positioning Systems (GPS), and affiliated data capture technologies.
- 2.6 demonstrate an understanding of the fundamentals of Geographic Information Systems (GIS) data storage and interoperability.

3. METHODS OF INSTRUCTION

- 3.1 Lecture
- 3.2 Laboratory exercises
- 3.3 Classroom demonstrations

4. LEARNING ACTIVITIES

- 4.1 Complete assigned readings
- 4.2 Do hands-on analysis in lab activities
- 4.3 Participate in examinations
- 4.4 Participate in weekly group discussion boards

5. EVALUATION

- 5.1 Locally developed test: can be pre/post-test
- 5.2 Lab Exercises
- 5.3 Written exercise
- 5.4 Exams
- 5.5 Final Project

6. STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 6.2 Classroom Assignments: Students are responsible for work missed and for completing all work before the next class meeting. Students are responsible for participating in all oral drills and for taking all exams.
- 6.3 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
- 6.4 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
- 6.5 Academic Integrity: Any student participating in acts of academic dishonesty including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
- 6.6 Textbooks and materials: Students are required to bring notebook or looseleaf book, pens, pencils, dictionaries, and purchase textbook required for class.
- 6.7 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester.
Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid. For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):
 - Submitting an academic assignment
 - Taking an exam, an interactive tutorial or computer-assisted instruction
 - Attending a study group that is assigned by the school
 - Participating in an online discussion about academic matters
 - Initiating contact with a faculty member to ask a question about the academic subject studied in the course