

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: CAD 251
Course Name: Introduction to GIS
Credits: 3
Contact Hours: 3 Lecture

Course Description: This course introduces principles and applications of Geographic Information Systems (GIS) using ArcGIS software. Students will develop skills in manipulating geographic data and representing this data through various informational mapping techniques.

Prerequisites: CAD 250

Textbooks: <http://bookstore.wdt.edu>

Materials: Notebook and/or note paper, drafting scales (Arch. & Eng.), storage media for backing up electronic working files, and folder for handouts.

Student Learning Outcomes:

- Develop analytical, communication, and technology skills in the creation of useful GIS databases and map documents.
- Interpret proper data manipulation techniques required to depict data in useful and meaningful ways.

Assessment: Students' analytical skills, communication skills, and technology skills will be assessed throughout this course.

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