GIS 460
Geographic Information System (GIS) Internship

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Course Description:
GIS 460 GIS Internship. 3 semester hours. Studies of resource management using GIS in an operational setting under the supervision of an approved organization.

Course Objectives:
The student will gain on the job experience using GIS for land and water resources management and disaster preparedness. The student will also gain experience in geodatabase management, geoprocessing, and geovisualization.

Program Learning Outcomes:
GIS has become commonplace in a multitude of disciplines. This class applies geospatial technologies for database creation. Issues of data acquisition and the use of GIS for real-world applications are emphasized.
The course is designed to address the Program Learning Outcomes in understanding the competency of ecology, biology, policy, economics, and administration of forestry and environmental science at intermediate level, as well as understanding the competency of resource measurement, management and oral and written communication skills at advanced level.

Student Learning Outcomes:
Students will demonstrate competency in the fundamentals of GIS. They will learn not only the most common GIS software but also the necessary background to understand how the software package works. As the semester develops, students will understand basic concepts and principles of GIS, apply spatial analytical tools to address questions and solve problems. They will also understand professional ethics and demonstrate competency in oral and written communication skills through project preparation and presentation.

Course Requirements:
1. The student will make arrangement with the work supervisor to have a variety of experiences in GIS and a final evaluation of their performance.
2. The student will keep a daily work journal detailing the work experience of the day. The journal will be submitted to the instructor via D2L as weekly reports.
3. The student will be in agreement with the work supervisor develop a project and build a geodatabase hosting the data collected and/or processed by the student.
4. The student will present the project in both report and map format at the end of the work.

Grading:
The grading will be based upon the following:
1. The final evaluation from the employer.
2. The successful completion of the project developed by the student.
3. The quality of the daily journal.
4. The quality of the geodatabase.
5. The quality of the project report and maps.

All of the above will be considered equally.