Implementing Geographic Information Systems in the College of Business

Overview: Project Objectives

- Week long module
- Management Information Systems 301 Class
- Teach students about geographic information systems
- Implement GIS in class
- 2 hours worth of lesson plans
- 1 hour in-class activity
- Outside of class homework assignment
- Students will understand benefits of GIS
- Know how to use GIS

Final Results: Lesson Plans

These lesson plans describe GIS and how it is designed to capture, store, manipulate, analyze, manage, and present spatial data. It will help make better decisions using geography. The 6 main components to GIS are data, people, procedures, software, and hardware. Most industries use GIS. For example, a city planner to find a new location, real estate, meteorologists to study hurricanes, retailer, pipeline, transportation, telecommunications, utilities, police force, Department of Education, accident analysis, dairy industry, among others.

Final Results: In-Class Activity

The 11 ready-to-use maps include: imagery, base maps, demographics and lifestyle, boundaries and places, landscape, oceans, earth observations, community maps, transportation, urban systems, and historical maps.

Landscape: USA Fire Potential

Oceans: Seafloor Temperature °C

Final Results: Homework Assignment

- Step-by-step instructions
- Option to add more layers
- 1 page memo
- Support final decision

Coffee Shop Map

Grocery Store Map

Looking Back

- Meet with professors earlier
- Deliverable due each week
- Test assignment on students

Takeaways

- Learn about GIS and how it is used
- How to plan a week long module
- Became experienced with ArcGIS

Going Forward

- Update lessons with current information
- Address what students want to learn

Lesson Plans

- Students work together
- Make questions easier or more challenging
- More or less sections

Homework Assignment

- More or less step-by-step instructions
- Revise main question
- Students gather data

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