

Winter 2016

GEOG 4/590: Geospatial Project Design

Interested in how geospatial projects evolve from ideas to real world applications?

In GEOG 490/590 students are introduced to methods and processes for *designing* and *managing* professional projects involving geospatial data, technologies, and analytical methods. Topics covered in this course will be based on classic PROJECT MANAGEMENT core knowledge areas – project scope, timeline, costs, communications, risks, etc. - as well as basic PROJECT DESIGN concepts – user experience (UX), user modeling, prototyping, sketching, iterating, etc. -

Two one-hour lectures each week provide lessons on project design and management with real-world examples from projects of the Geography Department's InfoGraphics Lab. Participation in class discussion will be promoted by requiring the readings in advance of the lecture.

This course will use the industry standard "Information Technology Project Management" Schwalbe 8th ed as the primary text.

Short quizzes will test knowledge and understanding of the readings and lead to the discussion of the responses with the whole class upon completion of the quiz. **Assignments** will provide opportunity to put what you've learned to use and demonstrate progress towards your own final geospatial project design and plan. **Labs** will expose students to methods and software tools necessary for completing assignments and the final project design and plan, such as: how to develop wireframe design mockups, develop application prototypes, create budgets, manage resources and project tasks. All labs and assignments will draw upon students' knowledge and experience from other courses in Geography.

At the end of the course, students will design a project, create a prototype and complete a management plan for a project focusing on the upcoming Olympic Trials for Track and Field, hosted on the UO campus, this summer.

EXPECTED LEARNING OUTCOMES

Students who successfully complete this course will be able to:

- *design a project* featuring geospatial data and methods for improving product outcome,
- *create a project management plan* including creating budgets, timelines, and personnel workflows for completing geospatial projects;
- integrate geospatial data and methods within a project design and management plan.
- Present (pitch) their work to classmates / peer review.