Example Syllabus (2-3 credits)
Term

Project Title:
Learning Tools Related to Transportation Networking Modeling using Open Source Software NEXTA/DTALite and GIS Framework.

Project Description:
This project will utilize current open-source learning tools related to network modeling using open source software and GIS tools. While learning from the case studies and open-source software guides, the student will document their experience using the tools and provide suggestions to improve the effectiveness of the learning experience. In addition, the student provide suggests that will help to improve the learning-transportation website content and tools.

Website for Evaluation:
www.learning-transportation.org
http://www.qgis.org/en/site/

Expected Outcomes:
1. Have an understanding of Dynamic Traffic Assignment (DTA) using NEXTA/DTALite and use of the software.
2. Develop an understanding of GIS software and tools and their link to DTA.
3. Ability to teach another user the process using current learning tools.
4. Review of the learning experience using current tools and feedback to improve upon the existing framework.
5. Learn and improve presentation skills

Meetings:
Regular (typically weekly) meetings are required as part of this course. Additional meeting times will be requested by the student/faculty on an as-needed basis.

Submittals:
Brief presentation (5-6 slides) at each meeting with the following content:
1. Tasks accomplished during the past period (1 slide)
2. Topics learned (1-slide)
3. Reported challenges/ suggested improvements to website content (1-2 slides)
4. Planned tasks for the next period (1-slide)
5. Questions or guidance needed (1-slide)

Final Deliverable
30 minute professional presentation focused on learned outcomes and suggestions to improve the current learning tools. The presentation should include at least one case study completed during the course.