

Sustainability Project Design (ISC 3999) - Syllabus

Florida Institute of Technology

Course Description:

Basic components of sustainable project management (= GPM, green project management) are developed to: a) build skills in project management and quality control, and b) support the initial design of an individual or team sustainability project for majors and minors in the Florida Tech sustainability program. This 1 credit course prepares students for the sustainability capstone project in ISC 4000. The project planning can be on or off the F.I.T. campus. Students evaluate multiple alternatives and develop product goals, objectives, timelines, cost-estimates, and long-term operations plan. Guest lectures by experts in GPM will be included.

Class Information

Pre-requisite/Co-requisite: ISC 1500 Intro to Sustainability

Credit hours: 1 cr

Days/Time: Fall semester, Wed 3-3:50 PM

Classroom: 255 Link Bldg.

Instructor: [Dr. K. Lindeman](#), Professor, Dept. of Education and Interdisciplinary Studies

Office: Shepard Bldg. Room 103

Office Hours: **Tue: 2:00-4:00; Wed: 12:00-2:00 and 4:30-5:30; Thu: 2:00-5:00.** Other times by appointment: lindeman@fit.edu

Canvas will be the course web portal for registered students.

Textbook and Additional Reading Materials

Maltzman and D. Shirley. 2011. *Green Project Management*. CRC Press. 272 pp.

Readings will also include:

Silvius, R. et al. 2012. *Sustainability in Project Management (Advances in Project Management)*. Gower Publishers. 164 pp.

- Technical journal articles, government and NGO reports, and significant current articles from print media.
- These readings and assigned chapters from the books will be posted on Canvas.

Student Learning Outcomes include

- Understanding of the theory and practice of project design and planning.
- Experience with scoping of alternatives and the building of sustainability best practices into project design.
- Experience with the building of timelines and cost-estimates for projects.
- Understanding the roles of internal and external communication in successful project development, funding and implementation.

Grading:

25% Homework

25% Midterm

20% Project Updates

30% Final Project Plan – Design of capstone sustainability project to implement in ISC4000.

Working Weekly Schedule: Can be subject to change according to breaking issues/opportunities.

Wk 1 - Rationale for Sustainability BMPs in Project Management (Chap. 1)

- Wk 2 - GPM Fundamentals and Terminology (Chap.2)
- Wk 3 - GPM Fundamentals and Terminology II (Chap. 3 and 4)
- Wk 4 - Project Ideation Basics; Individual Projects (Chap. 5)
- Wk 5 - Project Development and Execution (Chap. 6 and 7)
- Wk 6 - Project Monitoring, Indicators, and Interventions (Chap. 8)
- Wk 7 - Midterm Exam
- Wk 8 - Review Midterm Exam Results; Individual Projects
- Wk 9 - Life Cycle Assessment (Chap. 9)
- Wk 10 - Lean Management Tools (Chap. 10)
- Wk 11 - Individual Projects, Team Evaluations
- Wk 12 - Corporate, Government, and NGO Examples (Chap. 11)
- Wk 13 - Decreasing Costs, Increasing Revenues (Chap. 12)
- Wk 14 - Individual Projects, Team Evaluations
- Wk 15 - GPM Toolbox and Other Resources (Chap. 13 and 14)
- Wk 16 - Project Reviews; Final Exam Review
- Wk 17 - Final Exam

Students can sharpen your writing skills with this resource:

http://www.bristol.ac.uk/arts/exercises/grammar/grammar_tutorial/index.htm

Classroom Protocol

- Students enter class prepared to demonstrate knowledge of the latest assigned reading.
- In-class participation is expected and important. All students should measurably contribute to classroom discussions.
- Policies regarding use of electronics in class will be discussed during the first week.
- Please do not bring food into class.
- On-time attendance at each class meeting is expected - repetitive absences or tardies will indirectly and directly affect the course grade. Please consult with the instructor regarding partial or complete class absences.