

Syllabus for ESI 6555, Systems Management

Catalog Description – Systems engineering is a discipline that addresses the management of systems of increasing complexity in military, industrial, commercial, and civil areas. This course will acquaint students with concepts of systems and the role systems engineering plays in their development. It will also provide a basic framework for planning and assessing system development and how systems analysis methods and techniques are integrated within the systems engineering process. (3 credit hours)

1. Pre-requisites: linear algebra, calculus, probability
2. Course Objectives:
 - a. Understanding of basic principles, rather than “cook book” use of tables or handbooks
 - b. Application to system requirements, design, manufacturing, and testing, with real-world examples
3. Instructor: David E. Jeffcoat
 - a. Office: Room 132, UF REEF, Shalimar, FL
 - b. Phone: 850-833-9355 Ext 225
 - c. E-mail address: djeffcoat@ufl.edu
 - d. Class Web site: EDGE e-learning site for ESI 6555
 - e. Office hours: Monday – Thursday, 9:00 – 11:00 a.m.
4. Teaching Assistant: Sadie Thomas, e-mail sadiethomas@ufl.edu
5. Meeting Times: Mondays, 12:30 – 2:30, and Wednesdays, 1:30 – 2:30 central time
6. Meeting Location: Room 110, UF REEF, Shalimar, FL
7. Material and Supply Fees: None
8. Textbooks and Software Required: None. Materials provided by instructor.
9. Recommended Reading: B. S. Blanchard and W. J. Fabrycky, *Systems Engineering and Analysis*, 5th edition, 2010, Prentice Hall, Inc., ISBN: 013221735X.
10. Course Outline:
 - a. Introduction
 - b. Requirements
 - c. Design process
 - d. Quality Functional Deployment
 - e. Before Requirements
 - f. Scheduling
 - g. Statistical Quality Control
 - h. Design of Experiments
11. Attendance and Expectations: Attendance is not required. Any student who can attend any taping session is welcome. There is no penalty for absence or tardiness.
12. Grades are based on assignments, quizzes, and final exam.

13. Grading Scale: 90-100 A, 85-89 B+, 80-84 B.

“In order to graduate, graduate students must have an overall GPA and an upper-division GPA of 3.0 or better (B or better). Note: a B- average is equivalent to a GPA of 2.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit:

<http://gradschool.ufl.edu/catalog/current-catalog/catalog-general-regulations.html#grades>

14. Make-up Exam Policy: Exams may be made-up in extreme circumstances. Please contact instructor.

15. Honesty Policy – All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

16. Accommodation for Students with Disabilities – Students Requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

17. UF Counseling Services –Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
- Career Resource Center, Reitz Union, 392-1601, career and job search services.

18. Software Use – All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.