

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
Department of Computing and Mathematics
COURSE OUTLINE FOR

Course No.: SE450

Title: Senior Project

Cross reference: CS465

Cr Hrs: 3

Lecture Hours: 3

Laboratory Hours: 0

COURSE DESCRIPTION:

This course is a continuation of SE300. It provides for additional student activities with the management, analysis, design, implementation, and testing of a software system. Students work in teams and use a defined software process to develop or modify a software product. Project work is assessed using industrial software standards and review techniques. This course is considered to be a capstone course for undergraduate students in computer science. Prerequisite: Senior standing and SE300

GOALS:

The main objective of this course is to provide the students, who have completed the course, the necessary knowledge and experience to be able to participate as a productive member of a software development team in an industrial environment.

PERFORMANCE OBJECTIVES:

Upon completion of this course, students should be able to:

1. Understand the application of Team Software Process.
2. Know how to model the software development process.
3. Know how to measure effort, defects and product size.
4. Know how to perform Resource and Schedule Planning.
5. Applied the concept of software design.
6. Developed a working software product based on the given requirements

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COURSE OUTLINE FOR SE450, Continued**

TEXTBOOK

Watts S. Humphrey, "Introduction to the Team Software Process" , Addison-Wesley, 2000.

SUGGESTED SUPPLEMENTAL MATERIALS:**PREREQUISITE KNOWLEDGE BY TOPIC:**

1. Working knowledge of TSP (Team Software Process)

LABORATORY:**COMPUTER USAGE:**

Teams will develop a working systems, based on specified requirements, using programming lanaguage of their choice.

GRADING SYSTEM:

Student's performance will be evaluated based on two sets of activities, these are a) research activities (15%), and b) the term project activities (85%).

ESTIMATED CONTENT:

Skills:	%
Content:	%