

Information Systems and Operations Management  
**Advanced Systems Design & Development II [Fall 2016]**

Course: ISM6129                      Class Room: STZ 101 [TTh 1&2 periods]  
Instructor: Selwyn Piramuthu    selwyn@ufl.edu  
Office: STZ 361D (392-8882)      Office Hours: T 1:30 P.M. - 3:00 P.M.

**Textbook** [*Recommended*]

Bernd Bruegge & Allen H. Dutoit (2010) *Object-Oriented Software Engineering using UML, Patterns, and Java/3e*, Pearson [ISBN: 978-0-136-06125-0].

**Course Content**

The general aim of this course is to examine the design and application of systems in business for routine data processing, management reporting, and decision support at various levels within the organization. This course is oriented primarily toward Object-Oriented analysis and design process. The Object-Oriented notation, UML (Unified Modeling Language), will be covered in detail. To reinforce some of the concepts discussed in class, students are required to analyze and design a system.

**Grade Structure**

( $\geq 95$ : A ;  $\geq 90$ : A- ;  $\geq 87$ : B+ ;  $\geq 84$ : B ;  $\geq 80$ : B- ;  $\geq 77$ : C+ ;  $\geq 74$ : C ;  $\geq 70$ : C- ;  $\geq 67$ : D+ ;  $\geq 64$ : D ;  $\geq 60$ : D- ;  $< 60$ : fail)

Homeworks[individual assignment]	20%
2 Exams[individual assignment]	60% (30% for Exam I & 30% for Exam II)
Term Project[group assignment]	20%

Homework assignments are to be submitted on their assigned due dates. To encourage you to do your work on time, late submission of homework assignments will not be graded. The (non-cumulative) exams will be held in class during regular meeting periods.

### Class Schedule [tentative]

10/25	Introduction, Conceptualization
10/27	Use Cases
11/1	Structural Modeling - Class Diagrams
11/3	Behavior Modeling - Statechart Diagrams
11/8	Behavior Modeling - Statechart Diagrams
11/10	Exam-I
11/15	Behavior Modeling - Activity, Interaction (Collaboration, Sequence), Timing Diagrams
11/17	Behavior Modeling - Activity, Interaction (Collaboration, Sequence), Timing Diagrams
11/22	No Class - Work on Group Project
11/29	Physical Architecture - Component, Deployment Diagrams
12/1	In-class Group Project Presentations
12/6	In-class Group Project Presentations
12/8	Exam-II

TERM PROJECT REPORTS DUE: 3PM on 8 December 2016

### **ISOM Department Policy on Honor Code Violations**

For any academic class activity, students must follow the University of Florida Student Honor Code. Any violation of the code will automatically result in a failing grade (E) for this course and you will be reported to the Office of the Dean of Students. The Dean of Students might impose further sanctions, such as suspension or expulsion.