

## Global Learning Semesters

### Course Syllabus

Course: COMP-453 Software Engineering

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
COMP-453	Software Engineering	3
Semester Offered	Contact Hours	Prerequisites
Spring	42	COMP-201 Systems Analysis & Design, COMP-152 PASCAL/Program Development and Junior Standing
Department	Level of Course	Language of Instruction
Computer Science	Upper Division	English

### Course Description

The course is designed to provide a thorough understanding of the concepts of software management, project management and software reusability. Topics include software specification, software design, programming techniques and tools, validation, modularity, project management, quality assurance and CASE tools. Completion of a substantial team software development project in a microcomputer environment will be an integral part of the course.

### Instructor

Dr Angelika Kokkinaki

### Course Aims and Objectives

To introduce students to software life cycle concepts and processes, including analysis, specification, design, testing and maintenance.

### Teaching Methods

The course is delivered through lectures and a team project.

### Course Teaching Hours

42 hours. The course is delivered during the spring semester in 14-weeks (3 hours/week).

### Evaluation and Grading

Team Project:	20%
Tests:	30%
Final Exam:	50%

## Readings and Resources

### Required Textbook

R.S. Pressman, Software Engineering, A Practitioner's Approach, 5<sup>th</sup> Edition, 2000, Mc Graw Hill, ISBN 0-07-707936-1.

I. Somerville, Software Engineering, 6<sup>th</sup> Edition, 2000, Addison Wesley, ISBN 0-201-42765-6.

### Recommended Reading

B. Henderson-Sellers, A book of object-oriented knowledge: object-oriented analysis, design and implementation; a new approach to software engineering, 192 Prentice Hall Inc. ISBN 0-13-059445-8.