

COURSE DETAIL

SOFTWARE DESIGN AND MODELLING

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

Scottish Universities, University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

123

UCEAP Course Suffix**UCEAP Official Title**

SOFTWARE DESIGN AND MODELLING

UCEAP Transcript Title

SOFTWR DESIGN&MODEL

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course introduces the design and modelling of software systems using object-oriented techniques. The course starts by exploring the use of modelling in software development. Students learn to document designs in the Unified Modeling Language, UML, with emphasis on class, sequence, and state diagrams and the Object Constraint Language, OCL. The course uses modern model-driven development tools and students discuss their strengths and weaknesses. The course looks at criteria that make one design better than another in context and introduce design principles and patterns that capture good practice.

Language(s) of Instruction

English

Host Institution Course Number

INFR10064

Host Institution Course Title

SOFTWARE DESIGN AND MODELLING

Host Institution Campus

Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department

Informatics

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