

COURSE DETAIL

SECURE PROGRAMMING

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

119

UCEAP Course Suffix**UCEAP Official Title**

SECURE PROGRAMMING

UCEAP Transcript Title

SECURE PROGRAMMING

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course studies the principles and practices of secure programming. Secure programming means writing programs in a safe fashion, to avoid vulnerabilities that can be exploited by attackers. It also means using security features provided by libraries, such as authentication and encryption, appropriately and effectively. A range of programming platforms is considered, ranging from low-level (e.g. Android OS), through web programming (e.g., JavaScript and Python) to high-level large-scale languages (e.g., Java). New and emerging language-based security mechanisms are examined, including ways of specifying and enforcing security policies statically and dynamically (e.g., to enforce access controls or information flow policies).

Language(s) of Instruction

English

Host Institution Course Number

INFR11098

Host Institution Course Title

SECURE PROGRAMMING

Host Institution Course Details

<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11098.htm>

Host Institution Campus

University of Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department

School of Informatics

Course Last Reviewed

2022-2023

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