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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