

# 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 Campus

University of Edinburgh

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

School of Informatics

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