Software Abstractions and Systems Integration (COMP0102)

**Description**

**Aims:**
Students will develop skills and knowledge to design, implement and integrate large-scale software systems from heterogeneous components and services. Emphasis will be put on fundamental principles and practical issues of system integration projects. Students will also develop essential research skills needed to stay at the leading edge of software development throughout their career.

**Learning outcomes:**
On successful completion of the module, a student will be able to:
1. demonstrate knowledge and critical awareness of techniques and technologies for systems integration;
2. apply such knowledge to the development of a substantial system by teams of developers;
3. independently research and evaluate new techniques and technologies for system integration;
4. communicate their evaluation to a variety of stakeholders in a professional environment.

**Content:**
Agile development practices: working with user stories, agile architecture, agile testing.

**Requisites:**
In order to be eligible to select this module, a student must be registered on a programme for which it is a formally-approved option or elective choice AND must have practical experience of software design, programming, testing and debugging, at least equivalent to FHEQ Level 6.

It is recommended to have taken COMP0101 and COMP0104 in Term 1 (since software development activities build on an industrial project started in COMP0101) OR have good working experience of software development tools and environments.

**Key information**

- **Year**: 2019/20
- **Credit value**: 15 (150 study hours)
- **Delivery**: PGT L7, Campus-based
- **Reading List**: View on UCL website
- **Tutor**: Dr Emmanuel Letier
- **Term**: Term 2
- **Timetable**: View on UCL website

**Assessment**

- Coursework: 50%
- Coursework: 50%

**Find out more**

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

**Disclaimer:** All information correct as of June 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
Computer Science

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