Database and Information Management Systems (COMP0022)

**Description**

**Aims:**
Students will learn fundamental theories and methods of database systems: what they are, how they are developed and how they function to achieve their purposes. The module will exemplify these constructs with contemporary database technologies and students will learn how these technologies are exploited to build effective information systems of different scale.

**Learning outcomes:**
On successful completion of the module, a student will be able to:
1. understand the theories and methods of database systems;
2. have competence with applying the theories and methods of database systems in creating effective information systems;
3. understand current and emerging database technologies and the application settings in which they are used.

**Content:**
- The Database Management System
- Transaction management and failure management
- Query processing and optimization
- Distributed databases
- Data warehousing
- Data mining and online analytic processing.
- Semi-structured data databases
- Emerging database models and technologies.
- Database implementation and optimisation

Additionally, for FHEQ Level 7:
- SQL
- Data modelling
- Database design specification and normalisation

**Assessment**

- Written examination (main exam period): 70%
- Group project: 30%

**Find out more**

For more information about the department, programmes, relevant open days and to browse other modules, visit [ucl.ac.uk](http://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.
e registered on a programme for which it is a formally-approved option or elective choice AND have passed BSc/ MEng Computer Science (Years 1 and 2) at UCL.

For FHEQ Level 7:
In order to be eligible to select this module, a student must e registered on a programme for which it is a formally-approved option or elective choice.
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Requisites:
For FHEQ Level 6:
In order to be eligible to select this module, a student must
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For FHEQ Level 7: In order to be eligible to select this module, a student must e registered on a programme for which it is a formally-approved option or elective choice.