

Selecting Options: 2015-16

To assist you in choosing courses, the various options are listed below, grouped into themes. These are only meant to reflect natural associations of ideas among courses. When considering them you should bear in mind the requirements of the MSc as stated in the Course Handbook. Please note that you will be issued a Course Handbook during the induction week. Thus while you may want to do several courses from one theme, you can expect that you will need to choose courses from different themes to meet the MSc requirements.

Some of the courses listed have formal prerequisites, and these are detailed on the course web pages (see below for a link to this page). Note that a course you have done in your previous degree could fulfil such a prerequisite. Your supervisor will be able to help you decide when this is the case.

You should look at the relevant web page for more informal information on useful background for each course. <http://www.cs.ox.ac.uk/teaching/courses/>

- Programming:

Course	Schedule
Advanced Security	C
Computer Animation	C
Computer Security	B
Concurrency	A
Concurrent Algorithms and Data Structures	C
Concurrent Programming	A
Functional Programming	A
Object Oriented Programming	A
Principles of Programming Languages	B
Program Analysis	C

- Specification:

Course	Schedule
Computer Security	B
Concurrency	A

- Information Structures, Computational Logic and Verification:

Course	Schedule
Automata, Logic & Games	C
Computational Complexity	B
Computer-Aided Formal Verification	B
Concurrency	A
Databases	B
Database Systems Implementation	C
Foundations of Computer Science (FOCS)	A
Probabilistic Model Checking	C
Program Analysis	C
Theory of Data & Knowledge Bases	C
Probability & Computing	C

- Semantics and Mathematical Structures

Course	Schedule
Automata, Logic & Games	C
Categories, Proofs & Processes	C
Foundations of Computer Science	A
Lambda Calculus & Types	B
Probabilistic Model Checking	C
Quantum Computer Science	C
Probability & Computing	C

- Artificial Intelligence

Course	Schedule
Computational Linguistics	C
Intelligent Systems	B
Knowledge Representation and Reasoning	B
Computational Learning Theory	B
Machine Learning	C
Visual Analytics	C

- Other Courses:
 - Computers in Society
 - Categorical Quantum Mechanics
 - Requirements