

Study with us

## About your course

### Course(s) covered

| Code    | Title                                                                     |
|---------|---------------------------------------------------------------------------|
| EIMASTW | Modular Masters Programme in Computer Science (online) - Computer Science |

You can find full details of your course, module information and entry requirements in the *Programme Specification*.

### Key facts

#### Start dates:

Semester A intake: 23 September 2019  
Semester B intake: 20 January 2020

#### Credits:

PGCert level: 60 credits (as the exit award only)  
PGDip level: 120 credits (as the exit award only)  
Master level: 180 credits

#### How long it takes:

Full-time master level: 1 year for semester A intake or 18 months for semester B intake

Part-time master level: 2-3 years (depending on individual study pace)

### Academic Year

#### 2019-2020

The University's academic year is made up of 3 semesters.

- Semester A runs from Monday 23 September 2019 to Friday 17 January 2020
- Semester B runs from Monday 20 January 2020 to Friday 22 May 2020
- Semester C runs from Monday 25 May 2020 to Friday 18 September 2020

### Important points

The MSc Computer Science award route on the Modular Masters Programme in Computer Science (online), is targeted at two different groups of students:

- **Group A:** Students with a good Honours degree in a discipline other than Computer Science with knowledge or experience of computing that goes beyond that of an end-user, and who wish to obtain core knowledge and skills in Computer Science that they can apply to problems drawn from the subject discipline of their first degree, and to problems that are relevant to their chosen career.
- **Group B:** Students with a good Honours degree in Computer Science or a very closely related discipline, and who wish to update, extend and deepen their knowledge with a view to enhancing their career prospects or preparing for a programme of research.

**Students in Group A** working towards this award will be required to take a combination of required modules designed for non-computing entrants and will be expected to complete a major independent project that applies what they have learnt to a problem drawn from the subject of their first degree, or from their chosen career path.

**Students in Group B** studying for this award will have a wide range of taught modules from which to choose, and will be expected to complete a major project that extends and applies what they have learnt in one or more of the taught modules they have taken.

Graduates obtaining this award will be equipped to apply Computer Science knowledge and techniques in the context of PhD level research situated within the discipline area of their first degree, or to enter employment in working environments requiring sound judgment and the exercise of personal responsibility and initiative.

**The programme aims to provide students with the opportunities to:**

- build upon existing degree-level knowledge and practical experience;
- undertake a substantial programme of individual project work at postgraduate level;
- evaluate and further develop their skills in research, independent study and self-management, and prepare themselves for lifelong learning;
- develop an understanding of the social, legal and ethical context within which a computing professional is expected to operate, and of the standards that will be expected of them when they graduate;
- acquire the necessary skills to undertake further study or research at postgraduate level, and to secure employment in their chosen career.
- develop an understanding of, and practical skills in, the application of Computer Science principles and techniques to the modelling and solution of problems in other disciplines;
- develop an understanding of how different approaches to modelling, design and programming can affect the nature of solutions to computational problems, and their fitness for purpose;
- extend knowledge and understanding of, and practical skills in, a range of advanced computer science topics.

**IT Skills required:**

Basic IT skills are a requirement for anyone wishing to study online. For example, you will need to be confident using an internet browser, communicating via email and using Microsoft Office tools (e.g. Word, Excel) or equivalent. An ability to learn and adapt to new technologies is also important, for example, you may be asked to participate in a virtual classroom session, contribute to a discussion forum or complete an online assessment/test

**Outline Programme Structure**

The tables below are for guidance only. They provide the examples of the modules that students may choose to study for a full-time option (i.e. 60 credits per semester) for two semester entrants, respectively. The expectation for part-time study is up to 30 credits per semester.

Please note that Modules may not run every year and running semester might vary from year to year. You will receive an email prior to each semester to confirm the module availabilities and will be asked to complete a Module choice form.

**Semester A entry**

| <b>Semester A<br/>(September to January)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Semester B<br/>(January to May)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Semester C<br/>(May to September)</b>                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Required for Group A entrants</b> <ul style="list-style-type: none"> <li>• Programming and Program Design (30 credits)</li> </ul><br><b>Electives (Group A choose 30 credits and Group B choose 60 credits)</b> <ul style="list-style-type: none"> <li>• Distributed Systems Security (30 credits)</li> <li>• Learner Centred Design (30 credits)</li> <li>• Measures and Models for Software Engineering (30 credits)</li> <li>• Web Scripting and Application Development (30 credits)</li> <li>• Advanced Database (30 credits)</li> </ul> | <b>Core</b> <ul style="list-style-type: none"> <li>• Contemporary Practices in IT (15 credits)</li> </ul><br><b>Required for Group A entrants</b> <ul style="list-style-type: none"> <li>• Software Development Tools and Methods (15 credits)</li> </ul><br><b>Electives (Group A choose 30 credits and Group B choose 45 credits)</b> <ul style="list-style-type: none"> <li>• Interaction Design (15 credits)</li> <li>• Mobile Standards, Interfaces and Applications (15 credits)</li> <li>• Multicast and Multimedia Networking (15 credits)</li> <li>• Secure Systems Programming (15 credits)</li> <li>• Wireless, Mobile and Ad-hoc Networking (15 credits)</li> <li>• E-Learning Applications Development (30 credits)</li> <li>• Software Engineering Practice and Experience (30 credits)</li> </ul> | <b>Core</b> <ul style="list-style-type: none"> <li>• Computer Science Masters Project (60 credits)</li> </ul> |

**Semester B entry**

| Semester B<br>(January to May)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Semester C<br>(May to September) | Semester A<br>(September to January)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Semester B<br>(January to May)                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Core</b> <ul style="list-style-type: none"> <li>Contemporary Practices in Information Technology (15 credits)</li> </ul> <b>Required for Group A entrants</b> <ul style="list-style-type: none"> <li>Software Development Tools and Methods (15 credits)</li> </ul> <b>Electives (Group A choose 30 credits and Group B choose 45 credits)</b> <ul style="list-style-type: none"> <li>Interaction Design (15 credits)</li> <li>Mobile Standards, Interfaces and Applications (15 credits)</li> <li>Multicast and Multimedia Networking (15 credits)</li> <li>Secure Systems Programming (15 credits)</li> <li>Wireless, Mobile and Ad-hoc Networking (15 credits)</li> <li>E-Learning Applications Development (30 credits)</li> <li>Software Engineering Practice and Experience (30 credits)</li> </ul> | Study Break                      | <b>Required for Group A entrants</b> <ul style="list-style-type: none"> <li>Programming and Program Design (30 credits)</li> </ul> <b>Electives (Group A choose 30 credits and Group B choose 60 credits)</b> <ul style="list-style-type: none"> <li>Distributed Systems Security (30 credits)</li> <li>Learner Centred Design (30 credits)</li> <li>Measures and Models for Software Engineering (30 credits)</li> <li>Web Scripting and Application Development (30 credits)</li> <li>Advanced Database (30 credits)</li> </ul> | <b>Core</b> <ul style="list-style-type: none"> <li>Computer Science Masters Project (60 credits)</li> </ul> |

## Course delivery

This course is delivered 100% online via the University's virtual learning environment StudyNet. It can be studied flexibly, which allows you to fit your studies around your work and life commitments. However, there will be specific deadlines to submit or take assessments.

**You will find full details on your assessment schedule in the relevant Module Guide which will be published at the start of the module.**

Number of study hours will vary depending on your prior knowledge and experience with the subject. The expectation for a 15-credit module is 150 hours (equivalent to around 12 hours per week over 12 weeks).

## Method of assessment

Modules are assessed by combination of coursework (including essay, design, development of software artifact, technical report, academic report, live presentation, peer review, team work, video log, live demonstration, viva) and online timed tests. The dates of assignment submission and online tests are fixed. The online tests are available for a fixed period of time, usually 24-hours, to ensure all students can find a convenient opportunity to complete them within that period.

If you cannot meet the assignment deadlines or test dates, you must inform the Module Leader in advance of the deadlines to get appropriate advice.

## Additional expenses

**You can find full details of your course tuition fees in the *Fees and Finance Policy*.**

Courses materials (i.e. e-books, software or support materials) are usually included in your tuition fees, unless specified otherwise.

Postgraduate study requires extensive reading and access to reference works. Recommended texts are typically available in the University's online library as ebooks. Students may wish or may be required to purchase their own copies of textbooks. The average cost of a recommended text is approximately £50 - £100. We currently estimate that the cost of expenditure on mandatory textbooks is between £200 and £400 per year, dependent on the pattern of modules students choose to study. As part of your MSc project you may choose to purchase hardware or software.

## System requirements:

To study Online, you will need access to a suitable computer and a good reliable Internet connection. Most modern PCs and Macs (less than five years old) should be fine. As a guide, you need a minimum of:

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mandatory/<br>Optional | Estimated cost (in GBP)<br>(UK prices 2016)              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------|
| Desktop or laptop computer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mandatory              | Starts at £250                                           |
| Display (screen resolution 1024x768 <b>minimum</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mandatory              | Starts at £50                                            |
| Headset with microphone (built in if using laptop)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mandatory              | Starts at £15                                            |
| Webcam (built in if using laptop)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mandatory              | £10-£50                                                  |
| Broadband Internet Connection (2mbps <b>minimum</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mandatory              | Starts at £10/month                                      |
| Microsoft Office 365 account for the duration of your studies<br>The package will give you: <ul style="list-style-type: none"> <li>• Full, installed Office applications Word, Excel, PowerPoint, Outlook, Publisher, and OneNote on up to 5 PCs or Macs.</li> <li>• Office on tablets and phones for the Office experience on up to 5 tablets and 5 phones.</li> <li>• Online versions of Office including Word, Excel, and PowerPoint.</li> <li>• File storage and sharing with 1 TB storage.</li> </ul> | Mandatory              | Provided by the University at no cost to students / FREE |
| Microsoft's DreamSpark<br>The University subscribes to Microsoft's DreamSpark. This gives students free access to loads of software from Microsoft.                                                                                                                                                                                                                                                                                                                                                        | Optional               | Provided by the University at no cost to students / FREE |

Full system requirements details can be found on the UH Online website <http://www.herts.ac.uk/apply/schools-of-study/uh-online/how-does-online-study-work/system-requirements>

### Assessments – remote invigilation

Our courses are specifically designed to make attending the University unnecessary, including attendance for the completion of tests. Some of our online tests may make use of third-party remote invigilation providers, also known as 'remote proctors'. These services allow us to check your identity and invigilate online tests at a distance. Typically there are no assessment costs for students, apart from circumstances where a student has not completed the booking process within the required notice period. In such circumstances **costs can vary between £5 and £15 (GBP)**.

### Attendance to the UK Award Ceremony:

On completion of your programme of studies, you will have the opportunity to attend our UK Award Ceremony. When registering for the Ceremony you will receive 1 free graduate ticket for yourself.

Attendance to the UK Award Ceremony may incur additional costs i.e. guest tickets, travel and accommodation. The exact value of these costs will depend on when you will graduate and where you are travelling from.

Details regarding attendance to the Award Ceremony can be found on the website <http://www.herts.ac.uk/ceremonies>