Our students get the chance to develop their project skills throughout their programmes. In Year 2 they are challenged to complete a group project that sees them tackling the problem of communication and software engineering. While in Year 3 they will work on an individual project that gives them the opportunity to take their degree in a direction that most interests them.

Often working alongside world-leading researchers, the project helps them develop unique skills that can set them apart from the rest. The best student projects can lead to publications at international conferences and pave the way for careers in academia, research and development.

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To enhance their employability further we encourage and support our students to take industrial summer placements. We also have a strong network of companies – from local software houses to large international organisations – that regularly offer summer placements to our students.

In addition to providing places to undertake course-related work, our computing labs are a place to socialise and spend time on personal projects.

When finished with this document please recycle it.
Optional modules

We offer a wide variety of optional modules and you can change your options choices up until two weeks after the start of each semester.

Transferring between programmes

You can transfer within our Computer Science and Software Engineering programmes at any time, provided you have studied the required modules if transferring to Software Engineering.

Transferring between specialist programmes

You can transfer between any of our specialist MEng Computer Science with X programmes until the end of Year 3, and possibly later depending on your option choices.

FLEXIBILITY

In Electronics and Computer Science we are committed to making our courses as flexible as possible so that you have every opportunity to align your degree with your aspirations and interests as they develop. Our Computer Science and Software Engineering degrees share a common first year giving you the opportunity to learn foundational aspects of both subjects. We appreciate that many students won’t have had previous experience of these subjects, so our programmes are designed to ensure that you are on the course best suited to you.

Programmes may replace restrictions on the combinations of modules that can be studied, e.g. you are required to take certain options with specialist Artifical Intelligence, Cyber Security and Software Engineering programmes. For full details visit our websites at uon.ac.uk.

Optional modules

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You must study eight modules each year

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Foundation and skills</th>
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<tbody>
<tr>
<td></td>
<td>Foundations of Computer Science</td>
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<td>Programming</td>
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<td>Software Modelling and Design</td>
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<td>Data Management</td>
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<tr>
<th>Year 2</th>
<th>Specialising degree stream</th>
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<tr>
<td></td>
<td>Distributed Systems and Networks (Programming)</td>
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<td></td>
<td>Intelligent Systems</td>
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<td>Theory of Computing</td>
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<td>Software Engineering Group Project</td>
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<td>Programming Language Concepts</td>
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<td>Interaction Design</td>
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<td>Advanced Software Modelling and Design</td>
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<td>Computer Systems II</td>
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<tr>
<th>Year 3</th>
<th>Specialised knowledge and skills</th>
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<td>Individual Project (core only)</td>
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<td></td>
<td>Engineering Management and Law</td>
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<td>Cloud Application Development</td>
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<td>Cyber Security</td>
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<td></td>
<td>Foundations of Machine Learning</td>
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<td></td>
<td>Machine Learning Technologies</td>
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<td>Real-Time Computing and Embedded Systems</td>
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<th>Year 4</th>
<th>Advanced knowledge and skills</th>
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<td>Group Design Project</td>
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<td>Deep Learning</td>
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<td>Reinforcement and Online Learning</td>
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<td>Advanced Intelligent Agents</td>
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<td>Advanced Machine Learning</td>
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www.ecs.soton.ac.uk/ugcourses

Find out more:

www.southampton.ac.uk/ecs/ugcourses

"I would encourage anyone interested in computer science and software engineering to apply to Southampton; being taught by lecturers who are at the forefront of their respective fields, excellent computing facilities and the friendly environment to work in all make the university a great place to learn and advance to a rewarding career."

Adam Piekarski

MEng Computer Science, 2017

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