

# Software Engineering BEng (Hons)

UCAS Code: SE10 | Duration: 3 years | Full-time | Hope Park | 2026/2027

Placement year opportunities available | Study Abroad opportunities



## Course Overview

Modern society relies on large-scale software systems to support essential services such as energy, communications, health, business, and transport. As these systems grow more complex, the challenge of delivering reliable, robust, and cost-effective solutions increases. Addressing this challenge is at the heart of Software Engineering.

A Software Engineering degree equips you with the knowledge and skills to design, build, and manage complex applications that meet real-world needs. This Software Engineering course focuses on the processes and methodologies required to deliver software successfully, safely, and efficiently, ensuring projects are completed on time and within budget.

By studying Software Engineering, you will develop the expertise needed to thrive in an industry that underpins every aspect of modern life.

## Entry Requirements

This course follows the standard University entry requirements. Please see the website for further information.

## Fees and Additional Costs

The tuition fees for 2026/2027 are £9,535 for full-time undergraduate courses.

If you are a student from the Isle of Man or the Channel Islands, your tuition fees will also be £9,250. The University reserves the right to increase Home and EU Undergraduate and PGCE tuition fees in line with any inflationary or other increase authorised by the Secretary of State for future years of study.

You will also need to consider the cost of your accommodation each year whilst you study at university.

Visit our accommodation webpages for further details about our Halls of Residence:  
[www.hope.ac.uk/halls](http://www.hope.ac.uk/halls)



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## CONTACT

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# Software Engineering BEng (Hons) Curriculum

## Year One

This is a broad introduction to the subject and you develop the theoretical knowledge, problem solving and practical skills that underpin Software Engineering:

### Introduction to Programming

This module explores the foundational concepts of programming and data structures, focusing on Java and Python.

### Introduction to Artificial Intelligence

In this course, we will explore the field of Artificial Intelligence (AI), starting with foundational concepts and progressing through its diverse applications and implications.

### Data Fundamentals

This module introduces the concept of data and its collection, processing, analysis, and interpretation, while exploring storage systems such as relational databases and the end-to-end lifecycle of data in real-world contexts.

### Fundamentals of Computational Science

This module introduces the foundations of computer science by weaving together mathematics, C programming, cryptography and scientific computing.

## Year Two

In your second year, you will go deeper into Software Engineering, expanding into both its theoretical and practical dimensions. This year will see a focus on specialised areas within the discipline, with each topic explored in detail.

- Professional Skills
- Introduction to Software Engineering
- Web Development
- Human-computer Interactions
- Networks
- Object-oriented Programming with C++
- Algorithm Design and Analysis
- Computer Graphics with C++

## Year Three

This year, your focus will be on your dissertation, centred around a topic of your interest. Alongside this, you'll explore several advanced subjects:

- Web Innovations
- Cybersecurity
- Mobile Development
- Software Deployment and DevOps
- Data Persistence
- Software Management and Architecture.

## COURSE STRUCTURE

Teaching on this degree is structured into lectures, where all students are taught together, seminars of smaller groups of around 15-20 students, and tutorials which typically have no more than 10 students. During your first year of study, there are approximately 12 teaching hours each week, which reduces to approximately 10 teaching hours in your second and third years. On top of teaching hours, you are also expected to spend a number of hours studying independently each week, as well as studying in groups to prepare for any group assessments that you may have.

## ASSESSMENT AND FEEDBACK

During your degree, there are a variety of assessment types to ensure you are given a range of opportunities to demonstrate your knowledge, skills and understanding of the academic and professional components of the degree. These include written exams, portfolios of tasks and activities, and practical coursework. In your final year, there is also a dissertation or extended research project to complete. You will be given written feedback on your assessments, and you will have the opportunity to discuss this with your tutor in more detail.



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