YOU TIME IS NOW
# EXPLORE THE OU

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achieve your goals with The Open University</td>
<td>3</td>
</tr>
<tr>
<td>Five reasons why you should choose us</td>
<td>4</td>
</tr>
<tr>
<td>What you need to get started</td>
<td>5</td>
</tr>
<tr>
<td>What you can study</td>
<td>6</td>
</tr>
<tr>
<td>Learn in a way that suits you</td>
<td>7</td>
</tr>
<tr>
<td>Welcome to mathematics and statistics</td>
<td>8</td>
</tr>
<tr>
<td>Boost your confidence with an Access module</td>
<td>10</td>
</tr>
<tr>
<td>How you build your qualification</td>
<td>12</td>
</tr>
<tr>
<td>How long your qualification will take</td>
<td>14</td>
</tr>
<tr>
<td>Fees and funding</td>
<td>16</td>
</tr>
</tbody>
</table>

# FIND AN UNDERGRADUATE COURSE

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate courses</td>
<td>19</td>
</tr>
</tbody>
</table>

# FIND A POSTGRADUATE COURSE

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postgraduate courses</td>
<td>42</td>
</tr>
</tbody>
</table>

# BEFORE YOU GO

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other useful information</td>
<td>48</td>
</tr>
<tr>
<td>Get in touch</td>
<td>BACK COVER</td>
</tr>
</tbody>
</table>
Dream of furthering your knowledge and understanding of the powerful and fascinating world of mathematics or statistics? Believe you can unlock your potential and develop your analytical and problem-solving skills? Let us help you to succeed and be proud of your achievements.

ACHIEVE YOUR GOALS WITH THE OPEN UNIVERSITY

We’re pioneers in distance learning and, since we were founded, have helped more than two million people realise their potential. Our unique approach to learning means you don’t have to put your life on hold to get the qualification you want.

WE WILL:
- help you get a qualification to suit you and your goals
- provide you with the teaching and learning resources you’ll need
- offer a flexible learning experience based around you and your life
- use technology and teaching methods that enhance your study experience
- be there to support you every step of the way.

YOU CAN EXPECT:
- materials that are designed with you in mind
- continuous innovation – we’ve been leading the way in distance learning for 50 years, ensuring education is accessible, whatever your circumstances
- access to world-class resources, whenever you need them
- qualifications that are respected by employers the world over.

78% of FTSE 100 companies have sponsored employees on OU courses.
FIVE REASONS WHY YOU SHOULD CHOOSE US

1. We’re open to you – we make learning available to all, regardless of background, age or additional learning needs.

2. You can study around your existing commitments – we’re experts in helping people fit their studies around their busy lives.

3. We guarantee outstanding value and a high-quality education at a competitive price.

4. We’ve designed our qualifications to enable you to put what you learn into practice immediately.

5. You get more than a highly respected qualification; you’ll be able to show you’re dedicated and committed – skills that are valued in the workplace.
WHAT YOU NEED TO GET STARTED

Where you start in life shouldn’t limit where you go. If you’re determined to succeed and prepared to work hard then we can help you get started.

It’s easy to begin studying with us. The next few pages will tell you more about how studying with The Open University works, the courses we offer, how you pay, and how long your qualification will take.

YOU CAN DO IT

The main reason we’re called The Open University is that we’re open to everyone. Every year, we help thousands of people achieve extraordinary things.

- There are no formal academic entry requirements at undergraduate level.
- We helped around 22,000 students with disabilities and additional needs last year alone.
- Our students are diverse. 30% of new undergraduate students are under 25 and our oldest students are in their nineties.

WHAT YOU NEED

There are just a couple of things that you’ll need to be able to study with us.

- A computer with internet access. But don’t worry if you haven’t got access to one right now – you could receive help to buy a computer.
- A good grasp of the English language. Our courses are taught in English, so if you’re unsure whether your English is at the right level, go to openuniversity.co.uk/englishlanguage for help and guidance.

HAVE YOU STUDIED BEFORE?

If you’ve studied at higher education level before, it might count towards your OU qualification, cutting down the modules you’ll need to study as well as saving you time and money.

If you tell us what you’ve done, we’ll do the rest.

Go to openuniversity.co.uk/credit-transfer.
WHAT YOU CAN STUDY

We offer over 200 highly respected qualifications. Decide which type of qualification is best for you.

UNDERGRADUATE
- **A degree in a named subject**
  Complete modules in a particular subject to earn an honours degree.
- **An Open degree**
  Design an honours degree from across a number of subjects to meet your own needs and interests.
- **Diploma of higher education**
  Expand your knowledge and improve your skillset. A diploma of higher education is equivalent to two-thirds of an honours degree.
- **Certificate of higher education**
  Get a general grounding in a subject. A certificate of higher education is equivalent to one-third of an honours degree.

POSTGRADUATE
- **Masters degree**
  Study modules towards an internationally respected qualification while gaining specialist academic, professional or technical skills.
- **Postgraduate diploma**
  Work towards a widely recognised qualification. A postgraduate diploma is equivalent to two-thirds of a masters degree.
- **Postgraduate certificate**
  The first step towards a masters degree and a valuable qualification in its own right. Ideal for professional and career development.

Whatever you choose, we’ll give you:
- the flexibility to fit study around your other commitments
- the opportunity to improve your career
- freedom to follow your passions in depth.

To find out more about how you **BUILD YOUR QUALIFICATION** and how long it takes, see pages 12-15
You’ll have the flexibility to fit study around the other things going on in your life, whatever they may be.

**SUPPORTED OPEN LEARNING**
We’ve designed our learning experience to combine flexibility and regular contact, ensuring you get the help you need to learn in the best possible way. You’ll get regular support from tutors and access to all the materials and resources essential to your course. You’ll also have access to a student support team who will be there to help you on your learning journey.

**HOW YOU WILL BE ASSESSED**
You could be assessed in a number of different ways. We use a combination of written assignments, oral or practical assessments, projects, examinations, dissertations and portfolios.

**PIONEERING TECHNOLOGY**
We’ve been using innovative technology to connect with our students since we first started. We’ll make sure that you always have what you need and feel connected.

**CONNECT WITH OTHER STUDENTS**
You can use our module discussion groups to talk about subjects, course work or study methods. You can also connect with us on social media, or join one of the many informal Facebook groups set up by students.

**STUDENTS ASSOCIATION**
You’ll gain automatic entry to our active students association when you register – you can help influence University decisions, meet fellow students and develop new skills.
Find out more at openuniversity.co.uk/ousa. Or join the conversation on Facebook.com/OUstudents Twitter.com/OUstudents Instagram.com/OUstudentslive

**DO YOU HAVE ADDITIONAL STUDY NEEDS?**
We’re committed to helping students with disabilities and additional needs. We’ll give you the tools to help overcome obstacles that could stand in the way of your learning – whatever your needs may be.

**DISABLED STUDENTS’ ALLOWANCE (DSA) – UK STUDENTS ONLY**
A DSA can help you with study costs that result directly from your disability or specific learning difficulty. They’re not means-tested and can go towards specialist equipment (such as an adapted computer), non-medical study support (e.g. a dyslexia support worker) or other related expenses. You can also apply for help with study-related travel costs that result directly from your disability.
For more information, go to openuniversity.co.uk/disability or call us on 0300 303 5303.

**WHAT’S IT LIKE TO STUDY WITH THE OPEN UNIVERSITY?**
To find out more about the OU study experience and how we’ll support you throughout your studies, go to openuniversity.co.uk/learning.
WELCOME TO
MATHEMATICS AND STATISTICS

A CALCULATED CAREER MOVE
We’re Europe’s largest provider of university-level education in mathematics and statistics, subjects that are inspiring and enjoyable to study. They’ll equip you with problem-solving and decision-making skills that will be highly valued across employment sectors. Undergraduates come to us for a solid grounding in the fundamental concepts of mathematics and statistics. Students can develop specialisms in particular aspects of pure mathematics and/or applied mathematics.

WHY STUDY WITH US?
Our School of Mathematics and Statistics teaches well over 15,000 students each year; most students study part-time but others opt for full-time.
Our teaching and research includes a broad range of topics in mathematical sciences, across pure mathematics, applied mathematics, mathematics education, statistics and theoretical physics.
We are world leaders in inclusive, innovative and high-impact teaching and research. Our award-winning faculty staff create nationally recognised teaching content. And in the latest Research Excellence Framework – which assesses British academic institutions – 75% of our research outputs were rated as ‘world leading’ or ‘internationally excellent’.
Gender equality matters to us: we hold an Athena SWAN Bronze award and we’re working towards a Silver award. We also support the London Mathematical Society’s Good Practice Scheme, advancing women’s careers in university mathematical sciences departments.

UNDERGRADUATE
Our undergraduate programme aims to give a solid grounding in the fundamental concepts of mathematics and/or statistics, with options to delve deeper into topics such as chaotic systems, complex analysis or the applications of probability, for example.
Our qualifications range from a Certificate and Diploma of Higher Education in Mathematical Sciences through to BSc (Hons) degrees including Mathematics; Mathematics and Statistics; Mathematics and its Learning; Data Science; and Mathematics and Physics. On most of these qualifications we offer a choice of starting point to match your existing mathematical knowledge, and you can switch between them as your interest in the subject develops.
For those wishing to improve their understanding of data and statistics, we offer a Professional Certificate in Practical Statistics and a more advanced Graduate Certificate in Theoretical Statistics and Probability.
POSTGRADUATE
We’re proud to have the largest MSc in Mathematics student population in the UK.
By studying at this level, you’ll deepen your mathematical learning by delving into particular advanced aspects of pure and applied mathematics. Subjects at this level include fractal geometry, coding theory and calculus of variations. The MSc is completed by applying your knowledge to a piece of independent study, and could lead onto a research degree at The Open University.

BEYOND GRADUATION
Mathematics and statistics graduates are highly sought after for their logical and analytical skills, and generally command high salaries. They find employment in a wide range of sectors including business, education, finance, engineering, communications, environment, science, software development, marketing and the Civil Service. Mathematics and statistics graduates play a key role in the technological developments shaping our modern society. For example, climate modelling uses a range of applied mathematical and statistical techniques to investigate important issues affecting the entire planet.

One of the fastest growing areas of employment is statistical exploration and data science. Here mathematics and statistics can help identify trends and significant links in large data sets to help us answer any number of questions about the world we live and work in, and thus inform decision-making and policy in all sectors of society.

The quality of OU materials is excellent and in fact my OU texts are still my starting point if I need a particular branch of maths to solve a problem. You’ll find that the OU opens doors for you that you may not be aware of, so go for it; your life will be enriched. Without a doubt, the OU has changed my life.”

Dr Penny Lynch,
BSc (Hons) Mathematical Sciences

MORE ONLINE
Learn more about our mathematics and statistics qualifications, and register for your chosen course, at openuniversity.co.uk/courses.

I couldn’t do my current job if I hadn’t studied with The Open University and passed my degrees. I’m a senior civil servant and the chief statistician for the Department for Work and Pensions. I now have a very successful career; I wouldn’t have been able to achieve this without The Open University.”

Neil McIvor,
BSc (Hons) Mathematics;
MSc Mathematics
**BOOST YOUR CONFIDENCE WITH AN ACCESS MODULE**

If you don’t have much experience of university-level study or haven’t studied in a while, you could benefit from starting your studies with one of our Access modules.

They offer a great introduction to a range of subjects and act as a taster to see if you want to delve deeper. Students who start with an Access module do better on their next module, so it’s a great way to start your chosen qualification. You might even qualify to study your Access module for free.

You don’t have to start with an Access module, but you might find it useful if you’d like to:
- improve your confidence
- get a taste of a subject area you’re thinking of studying
- brush up on your study skills.

Each module includes a selection of materials, online quizzes, and assignments that you complete over 30 weeks. It takes around nine hours of study each week.

You’ll get:
- a personal tutor providing regular feedback with one-to-one telephone tutorials
- further support from a dedicated team throughout your study
- detailed written feedback.

**WHAT DO YOU NEED TO BEGIN?**

You can start Access modules in February and October.

You’ll need:
- access to a phone
- the use of a computer with internet access – you don’t need to buy one though, the use of one at a public library will be fine.

**WHAT YOU CAN STUDY**

The following Access module will prepare you to study at undergraduate level.

*Science, technology and maths Access module* (Y033)

This module introduces you to a technically oriented range of subjects, including science; engineering and design; environment; mathematics; and computing and IT. As the foundation for further studies in these fields, this is the ideal module to build your confidence and prepare you for further study.

We offer two other Access modules, which are more relevant to other subject areas:

*Arts and languages Access module* (Y031)

*People, work and society Access module* (Y032)
DO YOU QUALIFY FOR A FREE ACCESS MODULE?

You can study an Access module for **free** if you:

- live in the UK (excludes Channel Islands and Isle of Man) or have a British Forces Post Office address
- are studying the module to prepare for an OU qualification (this doesn’t apply if you live in Scotland)
- have a household income (or, in Scotland, a personal income) of £25,000 or less, or you’re receiving qualifying benefits
- have completed no more than one year of a full-time undergraduate programme at FHEQ or CQFW level 4/SCQF level 7 or above, and not completed 30 credits or more of OU study.

HOW MUCH DOES AN ACCESS MODULE COST?

If you don’t qualify to study for free, the cost depends on where you live.

- In England, the Channel Islands and the Isle of Man it’s £753.
- In Northern Ireland, Scotland and Wales it’s £252.

You can pay up front by debit or credit card, or by bank transfer. Or spread the cost with an Open University Student Budget Account – see page 17 for more information.

If you’re studying an Access module in preparation for an OU qualification and you live in England or Wales, you could cover the cost with a student loan – see page 16 for more information.

Students who prepare by taking an Access module are more likely to be successful in their future studies.

NEXT STEPS

Order an Access Modules Prospectus at openuniversity.co.uk/ug-access or speak to our Student Recruitment team on 0300 303 0069.
HOW YOU BUILD YOUR QUALIFICATION

UNDERGRADUATE STUDENTS

You’ll need to build up a set number of credits to gain your qualification. Here’s how it works ...

STAGES
- You must complete three stages to gain an honours degree, two stages for a diploma of higher education and one stage for a certificate of higher education.
- To complete each stage, you must build up a set number of credits ...

CREDITS
- You need 120 credits to complete each stage.
- You need a set number of credits to gain your chosen qualification e.g. you need 360 credits to gain an honours degree.
- Most students study 60 credits a year.
- You gain credits by successfully completing modules ...

MODULES
- With each module you successfully complete, you’ll earn a set number of credits, usually 30 or 60.
- Modules are either compulsory or selected from a choice of options.
- You choose the modules you want to study, year by year.

STAGE 1
ACCESS MODULE
An optional module to build your confidence and prepare you for further study.
To complete Stage 1, you’ll need 120 credits, studying modules worth 30 or 60 credits.

STAGE 2
120 CREDITS
Certificate of higher education
To complete Stage 2, you’ll need a further 120 credits, studying modules worth 30 or 60 credits.

STAGE 3
240 CREDITS
Diploma of higher education
To complete Stage 3, you’ll need a further 120 credits, studying modules worth 30 or 60 credits.

360 CREDITS
Honours degree
POSTGRADUATE STUDENTS

You gain a postgraduate qualification by building up a set number of credits ...

CREDITS
You need:
- 60 credits to gain a postgraduate certificate
- 120 credits to gain a postgraduate diploma
- 180 credits to gain a masters degree.

You gain credits by successfully completing modules ...

MODULES
- With each module you successfully complete, you’ll earn a set number of credits, usually 30 or 60.
- Modules are either compulsory or selected from a choice of options.
- You choose the modules you want to study, year by year.

GETTING STARTED
All you need to do is choose which qualification you want to study and register on a module that counts towards that qualification. You can find out more about the postgraduate qualifications we offer in mathematics from page 42.
**HOW LONG YOUR QUALIFICATION WILL TAKE**

Exactly how long it will take to get your qualification depends on how many credits you study each year and which qualification you’re working towards. Most of our students study part time. The way we work gives you the flexibility to get the qualification you want in a timeframe that’s right for you. Full-time study is equivalent to studying 120 credits per year, but if you’re working, we recommend that you don’t study more than 60 credits per year.

### UNDERGRADUATE QUALIFICATIONS

#### PART TIME | 60 CREDITS A YEAR | 16–18 STUDY HOURS A WEEK

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Years to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of Higher Education (120 Credits)</td>
<td>1-4</td>
</tr>
<tr>
<td>Diploma of Higher Education (240 Credits)</td>
<td>2-5</td>
</tr>
<tr>
<td>Honours Degree (360 Credits)</td>
<td>3-6</td>
</tr>
</tbody>
</table>

#### FULL TIME | 120 CREDITS A YEAR | 32–36 STUDY HOURS A WEEK

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Years to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of Higher Education (120 Credits)</td>
<td>1-4</td>
</tr>
<tr>
<td>Diploma of Higher Education (240 Credits)</td>
<td>2-5</td>
</tr>
<tr>
<td>Honours Degree (360 Credits)</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Some undergraduate qualifications follow a different pattern of study. See individual descriptions for more information.
### POSTGRADUATE QUALIFICATIONS

<table>
<thead>
<tr>
<th>PART TIME</th>
<th>60 CREDITS A YEAR</th>
<th>16–18 STUDY HOURS A WEEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSTGRADUATE CERTIFICATE (60 CREDITS)</td>
<td><img src="chart.png" alt="Diagram" /></td>
<td></td>
</tr>
<tr>
<td>POSTGRADUATE DIPLOMA (120 CREDITS)</td>
<td><img src="chart.png" alt="Diagram" /></td>
<td></td>
</tr>
<tr>
<td>MASTERS DEGREE (180 CREDITS)</td>
<td><img src="chart.png" alt="Diagram" /></td>
<td></td>
</tr>
</tbody>
</table>

Some postgraduate qualifications follow a different pattern of study. See individual descriptions for more information.
We believe cost shouldn’t be a barrier to achieving your potential. That’s why our tuition fees are among the most competitive in the UK. And we’ll always help you find a way of paying that suits your circumstances.

FOR UNDERGRADUATE

You’ll pay on a module-by-module basis, rather than for your whole qualification up front. See below to get an idea of costs.

LIVING IN ENGLAND

<table>
<thead>
<tr>
<th>CREDITS EACH YEAR</th>
<th>COST PER YEAR1</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>£1,506</td>
</tr>
<tr>
<td>60</td>
<td>£3,012</td>
</tr>
<tr>
<td>120</td>
<td>£6,024</td>
</tr>
</tbody>
</table>

1 2019/20 prices; fees normally increase annually in line with inflation and the University’s strategic approach to fees.

In England, the cost for a 360-credit honours degree based on today’s prices is £18,072.

LIVING IN NORTHERN IRELAND, SCOTLAND OR WALES

<table>
<thead>
<tr>
<th>CREDITS EACH YEAR</th>
<th>COST PER YEAR2</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>£504</td>
</tr>
<tr>
<td>60</td>
<td>£1,008</td>
</tr>
<tr>
<td>120</td>
<td>£2,016</td>
</tr>
</tbody>
</table>

2 2019/20 prices (exceptions apply); fees normally increase annually in line with inflation and the University’s strategic approach to fees.

In Northern Ireland, Scotland and Wales, the cost for a typical 360-credit honours degree based on today’s prices is £6,048.

FUNDING – ENGLAND AND WALES

If you live in England or Wales, the best way to fund your studies, regardless of age or income, might be with a student loan from Student Finance England or Student Finance Wales. It’s the most popular way to pay.

KEY FACTS

- Repayments only start when your salary exceeds the income threshold (currently, £25,725).
- If you’re already earning over £25,725, you won’t have to pay anything back for up to four years.
- Repayments are deducted automatically from your salary.
- You can pay off the loan early without any penalties.
- Any balance outstanding after 30 years will be written off.

EXAMPLE REPAYMENT AMOUNTS

<table>
<thead>
<tr>
<th>INCOME EACH YEAR BEFORE TAX</th>
<th>MONTHLY REPAYMENT3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to £25,725</td>
<td>£0</td>
</tr>
<tr>
<td>£27,000</td>
<td>£9.56</td>
</tr>
<tr>
<td>£34,000</td>
<td>£62.06</td>
</tr>
<tr>
<td>£49,000</td>
<td>£174.56</td>
</tr>
</tbody>
</table>

3 Repayments are based on what you earn, not what you owe. You’ll repay 9% of what you earn over £25,725 (e.g. if you earn £27,000, you’ll repay £114.75 that year (9% of £1,275)).

ALREADY HAVE A DEGREE?

You might still qualify for a student loan. You need to be living in England or Wales and looking to study an eligible qualification. For more information, go to openuniversity.co.uk/quals.

MAINTENANCE SUPPORT – WALES

New students in Wales studying part time towards a qualification can apply for maintenance grants, worth up to £4,500, to help with living costs.

FUNDING – NORTHERN IRELAND

If you live in Northern Ireland, you could be eligible for a Part-Time Fee Grant of up to £1,230 to help towards your fees. The amount depends on your household income and the rate at which you study. If you’re not eligible or your grant does not cover the full cost of your tuition fees, you can apply for a Part-Time Tuition Fee Loan. See our website for more information or call 028 9032 3722.

FUNDING – SCOTLAND

If you live in Scotland and your personal income is £25,000 or less, or you’re on certain benefits, and you’re studying at least 30 credits, you could qualify for a Part-Time Fee Grant and funding to cover 100% of your course fees. It isn’t a loan and you won’t need to repay it.

STUDY SUPPORT AND DISCRETIONARY FUNDS

You might be eligible for additional means-tested funding for study-related costs, such as travel, childcare and internet access.

SELF-FUNDED STUDY

You can pay using a debit or credit card, or by bank transfer. Or spread the cost with an Open University Student Budget Account – see right for more information.

GET SPONSORED

See whether your company or organisation would want to help you learn and develop. It’s always worth asking.
FOR POSTGRADUATE
You pay for postgraduate qualifications module by module. Please go to our website to see the fee listed for your qualification.

FUNDING – ENGLAND
If you live in England, you could be eligible for a maintenance loan of up to £10,906 from Student Finance England. To be eligible you must:
- be under 60 years old
- be resident in England
- be studying a masters degree which can be completed in no more than three years
- not currently have a masters degree or equivalent
- be studying your qualification from the beginning.

KEY FACTS
- Repayments only start when you earn more than the income threshold (currently, £21,000).
- You’ll repay 6% of your income over £21,000 – so, if you earn £22,000, you’ll repay only £60 that year (6% of £1,000).
- If you already earn over £21,000, you won’t need to start repaying your loan until the April after you’ve graduated or left the course.
- Payments are deducted automatically from your salary.

FUNDING – NORTHERN IRELAND AND SCOTLAND
If you live in Northern Ireland or Scotland, you could be eligible for a fee loan of up to £5,500 towards the fees of your qualification from Student Finance Northern Ireland or the Student Awards Agency Scotland. To be eligible you must be:
- resident in Northern Ireland or Scotland
- studying for an eligible postgraduate qualification.

KEY FACTS
- Repayments only start when you earn more than the income threshold (currently, £18,935 in Northern Ireland and £18,330 in Scotland).
- You’ll repay 9% of your income over the threshold – so, for example, if you earn £20,000 and live in Scotland, you’ll repay only £150.30 that year (9% of £1,670).
- If you’re already earning over the threshold, you won’t need to start repaying your loan until the April after you’ve graduated or left the course.
- Payments are deducted automatically from your salary.

SELF-FUNDED STUDY
You can pay using a debit or credit card, or by bank transfer. Or spread the cost with an Open University Student Budget Account – see right for more information.

GET SPONSORED
See whether your company or organisation would want to help you learn and develop. It’s always worth asking.

MORE ONLINE
To find out more about fees and funding, go to openuniversity.co.uk/ug-fees or openuniversity.co.uk/pg-fees or call an OU adviser on 0300 303 5303.

OPEN UNIVERSITY STUDENT BUDGET ACCOUNTS LTD (OUSBA)
When you enrol with us, you’ll be offered the opportunity to pay your fees through a loan from OUSBA. OUSBA will pay your fees to The Open University, and you repay OUSBA either in a single sum or in monthly instalments. You may repay OUSBA at any time before the course begins. In this case, there’s no interest. Alternatively, you may repay OUSBA in monthly instalments payable over up to a year. In this case, interest does apply. The interest rate is fixed for the duration of the course (current representative APR of 5.1%). As a responsible lender, every application made to OUSBA undergoes a credit and affordability check. Find out more about OUSBA at openuniversity.co.uk/ousba.
I was in a middle management role at the Environment Agency when I signed up for a Diploma in Economics with the OU. I wanted a change in career direction and to become an economist. I gave it a lot of thought beforehand and discussed it with friends, family and colleagues as well. My manager agreed to fund my tuition fees, and in return I reduced my working hours to ensure I put in the required time and effort.

Studying was such a refreshing change from work. I was learning new things all the time and challenging myself to think more carefully and in a more structured way. After a year or so I decided to take the plunge and applied to study for a degree.

About a year later, there was an opening in the Environment Agency’s economics team so I applied – and I got the job! And three years later I got my degree – a 2:1 in Economics and Mathematical Sciences.

I remember being told that becoming a father was the hardest thing I’d ever do, but that it would also be the most rewarding. That is right, but only just. I have had to put my life and relationships back together after my breakdown, and I studied for my degree part-time while working and bringing up two kids. All of that while learning to manage my depression has been tough. But it’s been an amazing experience.

Matt Georges, BSc (Hons) Economics and Mathematical Sciences
You can register for the 2019/2020 academic year for undergraduate qualifications from 20 March 2019.

We’ve based the qualification start dates on the first applicable module(s) you can study as part of your qualification.

Modules listed in this prospectus are those that are currently available for study – the exact selection may change over time.

### MATHEMATICS AND STATISTICS

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are you ready to study mathematics?</td>
<td>20</td>
</tr>
<tr>
<td>BSc (Hons) Mathematics (Q31)</td>
<td>22</td>
</tr>
<tr>
<td>BSc (Hons) Mathematics and Statistics (Q36)</td>
<td>24</td>
</tr>
<tr>
<td>BSc (Hons) Mathematics and its Learning (Q46)</td>
<td>26</td>
</tr>
<tr>
<td>BSc (Hons) Data Science (R38)</td>
<td>28</td>
</tr>
<tr>
<td>Professional Certificate in Practical Statistics</td>
<td>30</td>
</tr>
<tr>
<td>Graduate Certificate in Theoretical Statistics</td>
<td>31</td>
</tr>
<tr>
<td>and Probability (S04)</td>
<td></td>
</tr>
</tbody>
</table>

### OTHER QUALIFICATIONS THAT INCLUDE MATHEMATICS OR STATISTICS

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Hons) Mathematics and Physics (Q77)</td>
<td>32</td>
</tr>
<tr>
<td>BSc (Hons) Computing &amp; IT Mathematics (Q67)</td>
<td>34</td>
</tr>
<tr>
<td>BSc (Hons) Computing &amp; IT and Statistics (Q67)</td>
<td>34</td>
</tr>
<tr>
<td>BSc (Hons) Economics and Mathematical Sciences (Q15)</td>
<td>36</td>
</tr>
</tbody>
</table>

### COMBINED STEM

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Hons) Combined STEM (R28)</td>
<td>38</td>
</tr>
</tbody>
</table>

### OPEN DEGREE

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA or BSc (Hons) Open (QD)</td>
<td>40</td>
</tr>
</tbody>
</table>
As mathematics is a linear subject, you need a good understanding of the basics before moving onto more advanced topics.

Our Stage 1 curriculum is common to most mathematics and statistics qualifications, and provides the underpinning knowledge and skills you’ll need for more advanced study at later stages. You’ll choose either the default start or the intensive start, depending on your experience and confidence with mathematics.

The default start will suit you if one or more of the following applies:
- You would like a thorough grounding in topics such as algebra and trigonometry
- You haven’t previously studied mathematics to an advanced level
- You haven’t studied mathematics for some time and need to refresh your skills.

Starting with Discovering mathematics (MU123) will give you:
- a broad introduction to university-level study
- the opportunity to improve your skills in mathematical communication and independent learning
- an appreciation of how mathematics pervades aspects of our lives everyday
- a solid foundation in:
  - introductory algebra, geometry and trigonometry
  - mathematical vocabulary and notation
  - mathematical techniques for solving problems
  - interpreting results in real-life contexts
  - simple mathematical arguments
  - explaining mathematical ideas in writing
  - developing skills in learning mathematics
  - describing problems mathematically
  - analysing mathematical reasoning.

On successful completion of Discovering mathematics (MU123), you’ll be ready to study Essential mathematics 1 (MST124).

BEFORE YOU REGISTER
Check you’re ready for Discovering mathematics (MU123) with a self-assessed quiz: openuniversity.co.uk/ayr.

DID YOU SCORE HIGHLY IN THE QUIZ?
The intensive start allows you to begin your studies at a faster pace. You’d start instead with Essential mathematics 1 (MST124), and later study a module of your choice in place of Discovering mathematics (MU123).

The intensive start will suit you if you’re confident about studying mathematics at university level and, in particular, have a good understanding of algebra and trigonometry. Your background might include one or more of the following:
- AS-level in mathematics
- A-level or (Scottish) Higher in mathematics, even if you didn’t finish it
- HNC or HND in a relevant subject
- International Baccalaureate Diploma
- confidence and fluency with most of the topics covered in Discovering mathematics (MU123).

Essential mathematics 1 (MST124) will give you:
- experience using powerful mathematical software
- experience of mathematical topics employed in many areas – such as computing, economics, engineering, physics and science – including:
  - applying algebra, number systems and functions to solve problems
  - expressing mathematical ideas, arguments and procedures clearly
  - using vectors and matrices to investigate mathematical structures
  - using calculus to solve a range of problems.

On successful completion of Essential mathematics 1 (MST124), you’ll be ready for the next module in your qualification.

BEFORE YOU REGISTER
Check you’re ready for Essential mathematics 1 (MST124) with a self-assessed quiz: openuniversity.co.uk/ready.
This degree will take your understanding of the concepts, theories and applications of mathematics to graduate level, and give you the opportunity to study some statistics, theoretical physics or mathematics education.

You’ll cover a wide range of topics and develop a secure understanding of mathematical problems and approaches. You’ll get plenty of practice with essential methods and tools; gain an appreciation of the role and construction of rigorous proof in mathematics; increase your familiarity with mathematical software; and build experience of communicating mathematical arguments and conclusions.

There are two starting points: default and intensive. If you’re confident about studying mathematics at university level and, in particular, are confident and fluent with algebra and trigonometry, choose the intensive start, which begins at a higher level and at a faster pace.

For more information about the best starting point for you, see pages 20–21 or go to mathschoices.open.ac.uk.

WHY CHOOSE THIS QUALIFICATION?
- Offers a wide selection of modules to fit your interests and ambitions.
- Covers a selection of topics in pure and applied mathematics with options in statistics, physics and mathematics education.
- Includes opportunities to develop your experience with mathematical methods and software.
- Offers a choice of start points to suit your level of mathematical knowledge.
- Allows you to transfer to our BSc (Hons) Mathematics and Statistics or BSc (Hons) Mathematics and its Learning, if your aspirations change, even after you’ve started.

ACCREDITATION
- Institute of Mathematics and its Applications

RELATED QUALIFICATIONS
DIPLOMA OF HIGHER EDUCATION IN MATHEMATICAL SCIENCES (W43) openuniversity.co.uk/w43
CERTIFICATE OF HIGHER EDUCATION IN MATHEMATICAL SCIENCES (T14) openuniversity.co.uk/t14
QUALIFICATION STRUCTURE

You’ll choose either:

1. The default start
2. The intensive start

The example route shown below is the DEFAULT start. The intensive start will differ at Stage 1, see pages 20-21 or go to openuniversity.co.uk/q31 for details.

EXAMPLE ROUTE

STAGE 1 120 CREDITS

Discovering mathematics (MU123) (30 credits)

Essential mathematics 1 (MST124) (30 credits)

Introducing statistics (M140) (30 credits)

Essential mathematics 2 (MST125) (30 credits)

STAGE 2 120 CREDITS

Pure mathematics (M208) (60 credits)

You’ll choose 60 credits from:
- Mathematical methods, models and modelling (MST210) (60 credits)
- Mathematical methods (MST224) (30 credits)
- Analysing data (M248) (30 credits)

STAGE 3 120 CREDITS

You’ll choose 120 credits from:
- Applications of probability (M343) (30 credits)
- Complex analysis (M337) (30 credits)
- Deterministic and stochastic dynamics (MS327) (30 credits)
- Electromagnetism (SMT359) (30 credits)
- Further pure mathematics (M303) (60 credits)
- Graphs, networks and design (MT365) (30 credits)
- Linear statistical modelling (M346) (30 credits)
- Mathematical methods and fluid mechanics (MST326) (30 credits)
- Mathematical statistics (M347) (30 credits)
- Mathematical thinking in schools (ME620) (30 credits)
- Optimization (M373) (30 credits)
- The quantum world (SM358) (30 credits)

BSc (HONS) MATHEMATICS

Qualification delivery, module availability and qualification structure are subject to change.
BSc (HONS) MATHEMATICS AND STATISTICS

This degree will provide you with extensive knowledge of probability and statistics, combined with either pure mathematics or applied mathematics.

It will equip you with problem-solving and decision-making tools; give you experience using relevant software packages; and provide practice in conducting and communicating statistical investigations. You’ll also develop your understanding of time series analysis, multivariate data analysis, regression analysis, and hypothesis testing; and explore classical and Bayesian approaches to statistics.

There are two starting points: default and intensive. If you’re confident about studying mathematics at university level and, in particular, are confident and fluent with algebra and trigonometry, choose the intensive start, which begins at a higher level and at a faster pace.

For more information about the best starting point for you, see pages 20–21 or go to mathschoices.open.ac.uk.

WHY CHOOSE THIS QUALIFICATION?
- Builds expertise in analytical approaches, classical and Bayesian statistics, and the underpinning mathematical theory.
- Offers options to focus on either pure or applied mathematics to fit your interests and ambitions.
- Provides experience in conducting and communicating statistical investigations and the use of professional software.
- Offers a choice of start points to suit your level of mathematical knowledge.
- Allows you to transfer to our BSc (Hons) Mathematics or BSc (Hons) Mathematics and its Learning, if your aspirations change, even after you’ve started.

ACREDITATION
- Institute of Mathematics and its Applications
- Royal Statistical Society

RELATED QUALIFICATIONS
DIPLOMA OF HIGHER EDUCATION IN MATHEMATICAL SCIENCES (W43) openuniversity.co.uk/w43
CERTIFICATE OF HIGHER EDUCATION IN MATHEMATICAL SCIENCES (T14) openuniversity.co.uk/t14
QUALIFICATION STRUCTURE

You'll choose either:

1. The default start
2. The intensive start

The example route shown below is the DEFAULT start. The intensive start will differ at Stage 1, see pages 20–21 or go to openuniversity.co.uk/q36 for details.

EXAMPLE ROUTE

**STAGE 1 120 CREDITS**

- Discovering mathematics (MU123) (30 credits)
- Essential mathematics 1 (MST124) (30 credits)
- Introducing statistics (M140) (30 credits)
- Essential mathematics 2 (MST125) (30 credits)

**STAGE 2 120 CREDITS**

- Analysing data (M248) (30 credits)
- Practical modern statistics (M249) (30 credits)
- Mathematical methods, models and modelling (MST210) (60 credits) OR
  - Pure mathematics (M208) (60 credits)

**STAGE 3 120 CREDITS**

- Applications of probability (M343) (30 credits)
- Linear statistical modelling (M346) (30 credits)
- Mathematical statistics (M347) (30 credits)

You’ll choose 30 credits from:
- Complex analysis (M337) (30 credits)
- Deterministic and stochastic dynamics (MS327) (30 credits)
- Graphs, networks and design (MT365) (30 credits)
- Mathematical methods and fluid mechanics (MST326) (30 credits)
- Mathematical thinking in schools (ME620) (30 credits)
- Optimization (M373) (30 credits)

BSc (HONS) MATHEMATICS AND STATISTICS

Qualification delivery, module availability and qualification structure are subject to change.
This unique qualification will give you an understanding of how people learn mathematics, and an insight into different teaching approaches.

Designed primarily with teachers – or those interested in mathematics education – in mind, it will develop your knowledge and understanding of the teaching of mathematics and statistics, and broaden your ideas about what it means to learn and use these subjects. You’ll also gain a good grounding in mathematics (pure and applied) and statistics – with the opportunity to focus your studies on either discipline as you progress.

There are two starting points: default and intensive. If you’re confident about studying mathematics at university level and, in particular, are confident and fluent with algebra and trigonometry, choose the intensive start, which begins at a higher level and at a faster pace.

For more information about the best starting point for you, see pages 20–21 or go to mathschoices.open.ac.uk.

WHY CHOOSE THIS QUALIFICATION?

- Gives you an understanding of how we learn mathematics/statistics and associated different teaching approaches.
- Advances your own knowledge of mathematics with an option to include statistics.
- Develops your educational skills alongside problem-solving and reflective skills.
- Offers a choice of start points to suit your level of mathematical knowledge.
- Allows you to transfer to our BSc (Hons) Mathematics or BSc (Hons) Mathematics and Statistics, if your aspirations change, even after you’ve started.

ACCREDITATION

- Institute of Mathematics and its Applications

RELATED QUALIFICATIONS

DIPLOMA OF HIGHER EDUCATION IN MATHEMATICAL SCIENCES (W43) openuniversity.co.uk/w43

CERTIFICATE OF HIGHER EDUCATION IN MATHEMATICAL SCIENCES (T14) openuniversity.co.uk/t14
QUALIFICATION STRUCTURE

You’ll choose either:
1. The default start
2. The intensive start

The example route shown below is the DEFAULT start. The intensive start will differ at Stage 1, see pages 20–21 or go to openuniversity.co.uk/q46 for details.

EXAMPLE ROUTE

STAGE 1 120 CREDITS

Discovering mathematics (MU123) (30 credits)

Essential mathematics 1 (MST124) (30 credits)

Introducing statistics (M140) (30 credits)

Essential mathematics 2 (MST125) (30 credits)

STAGE 2 120 CREDITS

Pure mathematics (M208) (60 credits)

You’ll choose 60 credits from:
Mathematical methods, models and modelling (MST210) (60 credits)
Mathematical methods (MST224) (30 credits)
Analysing data (M248) (30 credits)

Mathematical thinking in schools (ME620) (30 credits)

You’ll choose 60 credits from:
Developing algebraic thinking (ME625) (30 credits)
Developing geometric thinking (ME627) (30 credits)
Developing statistical thinking (ME626) (30 credits)

STAGE 3 120 CREDITS

You’ll choose 30 credits from:
Applications of probability (M343) (30 credits)
Complex analysis (M337) (30 credits)
Deterministic and stochastic dynamics (MS327) (30 credits)
Graphs, networks and design (MT365) (30 credits)
Linear statistical modelling (M346) (30 credits)
Mathematical statistics (M347) (30 credits)
Optimization (M373) (30 credits)

BSc (HONS) MATHEMATICS AND ITS LEARNING

Qualification delivery, module availability and qualification structure are subject to change.

AT A GLANCE

COURSE CODE Q46
TOTAL CREDITS 360

START DATES
Oct 2019 Register by 12 Sep 2019
Feb 2020 Register by 9 Jan 2020

ENTRY REQUIREMENTS
Your mathematical skills must be appropriate to study at this level. Check you’re ready and get advice on where to start: mathschoices.open.ac.uk

ASSESSMENT
Based on a mix of:
- Tutor-marked assignments
- Interactive computer-marked assignments
- End-of-module assessments
- Examinations

STUDY DURATION
Part time: 6–7 years
Full time: 3–4 years

MODE OF STUDY
The learning materials provided are mostly print with some online

Electronic versions of printed materials available (e.g. PDF) – with the exception of some Stage 3 modules

Disc-based media (e.g. DVD)
✓

Online forum
Optional
✓

Collaborative work
Compulsory
✓
Data plays an important role in almost all private and public sector employment. The need to understand how to use data to inform decision making in many occupations has never been more important.

This qualification equips you with the key skills to explore and analyse complex data sets, and to solve practical problems using applied mathematics, statistics and computing.

You’ll gain a good grounding in mathematical and statistical methods, which provide a foundation for data analysis, together with the essential computing skills needed to use them to solve practical problems, including elements of machine learning and artificial intelligence. You’ll also gain experience of using statistical software packages.

WHY CHOOSE THIS QUALIFICATION?

- Develops familiarity with mathematical, statistical and computational data modelling techniques.
- Builds expertise in a range of appropriate software, including the widely used Python and R languages.
- Provides experience in communicating and critically commenting on the results of data analysis.
- Increases employability prospects in a wide range of sectors, including finance, government, health, education, the voluntary sector, business and commerce.
QUALIFICATION STRUCTURE

STAGE 1 120 CREDITS

Introducing statistics (M140) (30 credits)
Introduction to computing and information technology 1 (TM111) (30 credits)
Essential mathematics 1 (MST124) (30 credits)
Introduction to computing and information technology 2 (TM112) (30 credits)
Certificate of Higher Education in Data Analysis (T42)

STAGE 2 120 CREDITS

Analysing data (M248) (30 credits)
Algorithms, data structures and computability (M269) (30 credits)
Mathematical methods (MST224) (30 credits)
Practical modern statistics (M249) (30 credits)
Diploma of Higher Education in Data Analysis (W77)

STAGE 3 120 CREDITS

Applied statistical modelling – planned for Oct 2022 (M348) (30 credits)
Machine learning and artificial intelligence – planned for Oct 2021 (TM358) (30 credits)

You’ll choose 60 credits from:
Applications of probability (M343) (30 credits)
Data management and analysis (TM351) (30 credits)
Graphs, networks and design (MT365) (30 credits)
Interaction design and the user experience (TM356) (30 credits)
Mathematical statistics (M347) (30 credits)
Optimization (M373) (30 credits)

BSc (HONS) DATA SCIENCE

Qualification delivery, module availability and qualification structure are subject to change.
PROFESSIONAL CERTIFICATE IN PRACTICAL STATISTICS

This certificate will introduce you to key ideas in statistics and equip you with the skills to explore, summarise and analyse data to solve practical problems.

You’ll gain an appreciation of the breadth of statistical applications and of the role of variability in today’s world, and learn when to recognise the limitation of statistical analyses. You’ll also experience using statistical software packages.

WHY CHOOSE THIS QUALIFICATION?
- Covers key topics from exploratory data analysis to statistical modelling techniques.
- Uses statistical software packages for analysis, including linear and generalised linear modelling.
- Develops your ability to communicate and critically comment on statistical investigations and data analyses.
- Teaches you the skills necessary to use statistics at work.

QUALIFICATION STRUCTURE

This certificate has only one stage.

**STAGE 1 120 CREDITS**

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introducing statistics (M140)</td>
<td>30</td>
</tr>
<tr>
<td>Analysing data (M248)</td>
<td>30</td>
</tr>
<tr>
<td>Practical modern statistics (M249)</td>
<td>30</td>
</tr>
<tr>
<td>Linear statistical modelling (M346)</td>
<td>30</td>
</tr>
</tbody>
</table>

**QUALIFICATION DELIVERY, MODULE AVAILABILITY AND QUALIFICATION STRUCTURE**

Qualification delivery, module availability and qualification structure are subject to change.

**AT A GLANCE**

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>S03</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CREDITS</td>
<td>120</td>
</tr>
<tr>
<td>START DATES</td>
<td></td>
</tr>
<tr>
<td>Oct 2019 Register by 12 Sep 2019</td>
<td></td>
</tr>
<tr>
<td>Feb 2020 Register by 9 Jan 2020</td>
<td></td>
</tr>
</tbody>
</table>

ENTRY REQUIREMENTS

While there aren’t any formal entry requirements, it’s essential that your mathematical skills be appropriate to study at this level.

ASSESSMENT

Based on a mix of:
- Tutor-marked assignments
- Interactive computer-marked assignments
- End-of-module assessments
- Examinations

STUDY DURATION

Part time: 2–4 years

MODE OF STUDY

The learning materials provided are mostly print with some online

Electronic versions of printed materials available (e.g. PDF) ✓
Disc-based media (e.g. DVD) ✓
Online forum Optional ✓
Collaborative work Optional ✗

MORE ONLINE

To find out more about this course, fees and funding, and how to register, go to openuniversity.co.uk/s03 or call 0300 303 5303
This certificate will provide you with the theory that underpins statistical inference and probability, ensuring that you’re equipped to understand the assumptions and limitations of a range of models. It will provide the thorough understanding of the theory you need to underpin your work as a professional statistician.

You’ll learn how to develop probability models for practical situations, including random processes, and investigate the properties of the model. You’ll also study the mathematical theory underlying the methods and concepts used in practical statistical analyses.

**WHY CHOOSE THIS QUALIFICATION?**
- Covers key analytical approaches; classical and Bayesian statistics; and the underpinning mathematical theory.
- Teaches you the knowledge of distribution theory and a range of probabilistic models.
- Provides you with the theory behind statistical inference.
- Gives you the skills to comment critically on analyses and model choices.

**QUALIFICATION STRUCTURE**
This certificate has only one stage.

<table>
<thead>
<tr>
<th>STAGE 1</th>
<th>60 CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications of probability (M343) (30 credits)</td>
<td></td>
</tr>
<tr>
<td>Mathematical statistics (M347) (30 credits)</td>
<td></td>
</tr>
</tbody>
</table>

**MORE ONLINE**
To find out more about this course, fees and funding, and how to register, go to openuniversity.co.uk/s04 or call 0300 303 5303
BSc (HONS) MATHEMATICS AND PHYSICS

In this degree, you’ll develop knowledge and understanding of key concepts in theoretical physics and the underpinning mathematical ideas and methods.

It will teach you how to use essential techniques and relevant software, and acquire skills in communicating arguments and conclusions clearly and concisely. You’ll explore the fundamental concepts of physics, including Newtonian mechanics, special relativity, electromagnetism and quantum mechanics. And have the opportunity to get plenty of practice with the tools of applied mathematics, including mathematical modelling and numerical methods.

WHY CHOOSE THIS QUALIFICATION?
- Combines the concepts of modern theoretical physics with a solid grounding in applied mathematics.
- Develops your critical thinking and problem-solving skills.
- Offers opportunities to engage with our award-winning OpenSTEM labs.

RECOGNITION
- Institute of Mathematics and its Applications
- Institute of Physics

OTHER QUALIFICATIONS THAT INCLUDE MATHEMATICS OR STATISTICS

IOP Institute of Physics
## Qualification Structure

### Stage 1 120 Credits

- **Questions in science** (S111) (60 credits)
- **Essential mathematics 1** (MST124) (30 credits)
- **Essential mathematics 2** (MST125) (30 credits)

### Stage 2 120 Credits

- **Physics: from classical to quantum** (S217) (60 credits)
- **Mathematical methods, models and modelling** (MST210) (60 credits)

### Stage 3 120 Credits

You’ll choose 60 credits from:
- **Astrophysics** (S382) (30 credits)
- **Electromagnetism** (SMT359) (30 credits)
- **The quantum world** (SM358) (30 credits)
- **The relativistic Universe** (S383) (30 credits)

You’ll choose 60 credits from:
- **Applications of probability** (M343) (30 credits)
- **Complex analysis** (M337) (30 credits)
- **Deterministic and stochastic dynamics** (MS327) (30 credits)
- **Graphs, networks and design** (MT365) (30 credits)
- **Mathematical methods and fluid mechanics** (MST326) (30 credits)
- **Optimization** (M373) (30 credits)

---

### BSc (Hons) Mathematics and Physics

Qualification delivery, module availability and qualification structure are subject to change.
With these joint honours degrees you can focus on an area of computing & IT and combine it with either mathematics (pure or applied) or statistics – dividing your time equally between subjects.

Computing & IT skills are hugely valued in the modern workplace; studied together with mathematics or statistics they can open up careers in a wide range of sectors in government, industry or business.

**WHY CHOOSE THIS QUALIFICATION?**

- Offers a 50:50 split between computing & IT and mathematics or statistics.
- Presents focus options within the computing & IT strand.
- Accredited by BCS, The Chartered Institute for IT.
- Quality assured by the European Quality Assurance Network for Informatics Education (EQANIE).

**RELATED QUALIFICATIONS**

DIPLOMA OF HIGHER EDUCATION IN COMPUTING & IT AND MATHEMATICS/STATISTICS (W42)
openuniversity.co.uk/w42

CERTIFICATE OF HIGHER EDUCATION IN COMPUTING & IT AND MATHEMATICS/STATISTICS (T13)
openuniversity.co.uk/t13
QUALIFICATION STRUCTURE

The example route shown below is MATHEMATICS. Other routes will vary, go to openuniversity.co.uk/q67 for details.

EXAMPLE SPECIALIST ROUTE

**STAGE 1 120 CREDITS**

- **Introduction to computing and information technology 1** (TM111) (30 credits)
- **Introduction to computing and information technology 2** (TM112) (30 credits)
- **Essential mathematics 1** (MST124) (30 credits)
- **Essential mathematics 2** (MST125) (30 credits)

**Certificate of Higher Education in Computing & IT and Mathematics (T13)**

**STAGE 2 120 CREDITS**

You’ll choose a computing & IT focus area, studying 60 credits in: computer science; communications and networking; software development; or web development. For more information, go to openuniversity.co.uk/q67-citm

- **Mathematical methods, models and modelling** (MST210) (60 credits) OR
- **Pure mathematics** (M208) (60 credits)

**Diploma of Higher Education in Computing & IT and Mathematics (W42)**

**STAGE 3 120 CREDITS**

You’ll complete your studies in your computing & IT focus area, choosing one from a selection of 30-credit modules. For more information, go to openuniversity.co.uk/q67-citm

You’ll complete your studies in applied or pure mathematics, choosing 60 credits from a selection of modules. For more information, go to openuniversity.co.uk/q67-citm

**The computing and IT project** (TM470) (30 credits)

BSc (HONS) COMPUTING & IT AND MATHEMATICS

Qualification delivery, module availability and qualification structure are subject to change.

AT A GLANCE

- **COURSE CODE**: Q67
- **TOTAL CREDITS**: 360
- **START DATES**
  - Oct 2019: Register by 12 Sep 2019
  - Feb 2020: Register by 9 Jan 2020
  - Apr 2020: Register by 12 Mar 2020
- **ENTRY REQUIREMENTS**
  - While there aren’t any formal entry requirements, it’s essential that your mathematical skills be appropriate to study at this level.
  - To check you’ve got the mathematics skills needed visit openuniversity.co.uk/ready
- **ASSESSMENT**
  - Based on a mix of:
    - Tutor-marked assignments
    - Interactive computer-marked assignments
    - End-of-module assessments
    - Examinations
- **STUDY DURATION**
  - Part time: 6 years
  - Full time: 3 years
- **MODE OF STUDY**
  - The learning materials provided are a balance of print and online
    - Electronic versions of printed materials available (e.g. PDF)
    - Disc-based media (e.g. DVD)
    - Online forum
      - Optional
    - Collaborative work
      - Compulsory

MORE ONLINE

To find out more about this course, fees and funding, and how to register, go to openuniversity.co.uk/q67 or call 0300 303 5303
If you enjoy solving problems and you’re interested in the practical application of economics and mathematics, this degree is for you.

It will give you a thorough grounding in a broad range of mathematical, statistical and computational skills, and a sound knowledge of economic theory – together with a good understanding of economic issues. You’ll develop analytical and model-building skills that can be applied in a variety of contexts, engage in economic debate, and assess different kinds of evidence and their usefulness in relation to economic theories. By the end of your studies, you’ll be equipped with the knowledge and skills needed for a range of roles in business management, accountancy, banking, investment analysis, risk analysis and market research.

There are two starting points: default and intensive. If you’re confident about studying mathematics at university level and, in particular, are confident and fluent with algebra and trigonometry, choose the intensive start, which begins at a higher level and at a faster pace.

For more information about the best starting point for you, see pages 20-21 or go to mathschoices.open.ac.uk.
QUALIFICATION STRUCTURE

You’ll choose either:
1. The default start
2. The intensive start

The example route shown below is the DEFAULT start. The intensive start will differ at Stage 1, see pages 20–21 or go to openuniversity.co.uk/q15 for details.

EXAMPLE ROUTE

<table>
<thead>
<tr>
<th>STAGE 1 120 CREDITS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Discovering mathematics (MU123) (30 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economics in context (DD126) (30 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introducing statistics (M140) (30 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Essential mathematics 1 (MST124) (30 credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE 2 120 CREDITS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Running the economy (DD209) (60 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analysing data (M248) (30 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematical methods (MST224) (30 credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE 3 120 CREDITS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Doing economics: people, markets and policy (DD309) (60 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear statistical modelling (M346) (30 credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

You’ll choose 30 credits from a selection of mathematics/statistics options, go to openuniversity.co.uk/q15

BSc (HONS) ECONOMICS AND MATHEMATICAL SCIENCES

Qualification delivery, module availability and qualification structure are subject to change.
HOW YOU CAN FOCUS YOUR COMBINED STEM DEGREE ON APPLIED MATHEMATICS

This selection of modules shows how you can focus on one aspect of mathematics, such as applied mathematics, in combination with other STEM subjects that are of particular interest to you. However, this is just one example of the many combinations you can study and you’re not restricted to this route.

**STAGE 1**
120 CREDITS
- Essential mathematics 1 (MST124) (30 credits)
- Essential mathematics 2 (MST125) (30 credits)
You’ll choose 60 credits from a wide range of OU level 1 modules

**STAGE 2**
120 CREDITS
- Mathematical methods, models and modelling (MST210) (60 credits)
You’ll choose 60 credits from a wide range of OU level 2 modules

**STAGE 3**
120 CREDITS
You’ll choose 60 credits from:
- Complex analysis (M337) (30 credits)
- Deterministic and stochastic dynamics (MS327) (30 credits)
- Graphs, networks and design (MT365) (30 credits)
- Mathematical methods and fluid mechanics (MST326) (30 credits)
- Optimization (M373) (30 credits)
You’ll choose 60 credits from a wide range of OU level 3 STEM modules

BSc (HONS) COMBINED STEM

The flexibility of our combined science, technology, engineering and mathematics (STEM) degree allows you to build your own degree from a wide range of STEM modules and study routes, including psychology and sports science – this means you can build a qualification that’s unique to you.

**WHY CHOOSE THIS QUALIFICATION?**
- Wide-ranging choices – study modules from across STEM subjects or focus on one or two specific areas.
- Hugely flexible – you can switch direction easily if your needs or interests change.
- Allows you to count university-level credits you’ve already gained from elsewhere.

**DEGREE HOLDERS IN ENGLAND AND WALES**
If you’re looking to re-skill or up-skill in STEM subjects, you could still be eligible for a student loan to fund this degree.

For more information, go to openuniversity.co.uk/quals.
HOW YOU CAN FOCUS YOUR COMBINED STEM DEGREE ON APPLIED MATHEMATICS

This selection of modules shows how you can focus on one aspect of mathematics, such as applied mathematics, in combination with other STEM subjects that are of particular interest to you.

However, this is just one example of the many combinations you can study and you’re not restricted to this route.

STAGE 1 120 CREDITS

**Essential mathematics 1**
(MST124) (30 credits)

**Essential mathematics 2**
(MST125) (30 credits)

You’ll choose 60 credits from a wide range of OU level 1 modules

STAGE 2 120 CREDITS

**Mathematical methods, models and modelling**
(MST210) (60 credits)

You’ll choose 60 credits from a wide range of OU level 2 modules

STAGE 3 120 CREDITS

You’ll choose 60 credits from:
- **Complex analysis** (M337) (30 credits)
- **Deterministic and stochastic dynamics** (MS327) (30 credits)
- **Graphs, networks and design** (MT365) (30 credits)
- **Mathematical methods and fluid mechanics** (MST326) (30 credits)
- **Optimization** (M373) (30 credits)

You’ll choose 60 credits from a wide range of OU level 3 STEM modules

BSc (HONS) COMBINED STEM

Qualification delivery, module availability and qualification structure are subject to change.
HOW YOU CAN FOCUS YOUR OPEN DEGREE ON MATHEMATICS AND STATISTICS

This selection of modules shows how you can focus on aspects of mathematics and statistics in combination with other subjects that are of particular interest to you. However, this is just one example of the many combinations you can study and you're not restricted to this route.

**STAGE 1**
120 CREDITS
Introducing statistics (M140) (30 credits)
Essential mathematics 1 (MST124) (30 credits)
You’ll choose 60 credits from a wide range of OU level 1 modules

**CERTIFICATE OF HIGHER EDUCATION OPEN (T09)**

**STAGE 2**
120 CREDITS
Analysing data (M248) (30 credits)
Mathematical methods (MST224) (30 credits)
You’ll choose 60 credits from a wide range of OU level 2 modules

**DIPLOMA OF HIGHER EDUCATION OPEN (W34)**

**STAGE 3**
120 CREDITS
Deterministic and stochastic dynamics (MS327) (30 credits)
Linear statistical modelling (M346) (30 credits)
You’ll choose 60 credits from a wide range of OU level 3 modules

**BA OR BSc (HONS) OPEN**

Our BA or BSc (Hons) Open is the most flexible degree programme in the UK as it allows you to select your own modules and design a qualification that’s unique to you.

The degree allows you to choose modules from a wide range of subject areas so you can, for example, combine mathematics modules with modules from other disciplines, such as science or the humanities.

“...The beauty of an Open degree is that you can select your own modules and create a degree that’s unique to you.”

Hina Asif Alam, BSc (Hons) Open

**RELATED QUALIFICATIONS**

DIPLOMA OF HIGHER EDUCATION OPEN (W34)
openuniversity.co.uk/w34

CERTIFICATE OF HIGHER EDUCATION OPEN (T09)
openuniversity.co.uk/t09
HOW YOU CAN FOCUS YOUR OPEN DEGREE ON MATHEMATICS AND STATISTICS

This selection of modules shows how you can focus on aspects of mathematics and statistics in combination with other subjects that are of particular interest to you. However, this is just one example of the many combinations you can study and you’re not restricted to this route.

STAGE 1 120 CREDITS

Introducing statistics (M140) (30 credits)

Essential mathematics 1 (MST124) (30 credits)

You’ll choose 60 credits from a wide range of OU level 1 modules

Certificate of Higher Education Open (T09)

STAGE 2 120 CREDITS

Analysing data (M248) (30 credits)

Mathematical methods (MST224) (30 credits)

You’ll choose 60 credits from a wide range of OU level 2 modules

Diploma of Higher Education Open (W34)

STAGE 3 120 CREDITS

Deterministic and stochastic dynamics (MS327) (30 credits)

Linear statistical modelling (M346) (30 credits)

You’ll choose 60 credits from a wide range of OU level 3 modules

BA OR BSc (HONS) OPEN

Whether you qualify for a BA or BSc (Hons) Open will be determined by the number of credits you have from modules suitable for a BA or for a BSc.

AT A GLANCE

COURSE CODE QD

TOTAL CREDITS 360

START DATES

Oct 2019 Register by 12 Sep 2019

Feb 2020 Register by 9 Jan 2020

ENTRY REQUIREMENTS

While there aren’t any formal entry requirements, it’s essential that your mathematical skills be appropriate to study at this level. To check you’ve got the maths skills needed visit mathschoices.open.ac.uk

ASSESSMENT

Depending on the modules you choose to study, you may be assessed in any or all of the following ways:

- Tutor-marked assignments
- Interactive computer-marked assignments
- End-of-module assessments
- Examinations

STUDY DURATION

Part time: 6 years
Full time: 3 years

MODE OF STUDY

As the BA or BSc (Hons) Open can be made up of a range of different modules, the learning materials provided, use of online forums and inclusion of collaborative work will depend on the modules you choose to study.
To work towards a postgraduate qualification, you first need to choose and register on a module that counts towards that qualification.

Modules listed in this prospectus are those that are currently available for study – the exact selection may change over time.

**FIND A POSTGRADUATE COURSE**

### MATHEMATICS

- MSc in Mathematics (F04) 43
- Recommended study routes 44
- Postgraduate Certificate in Mathematics (C90) 45
- Postgraduate Diploma in Mathematics (E23) 45

### OPEN MASTERS

- MA or MSc Open (F81) 46
MSc IN MATHEMATICS

This MSc enables you to delve deeply into particular aspects of pure and applied mathematics through a wide choice of modules in areas such as fractal geometry, coding theory and calculus of variations.

The choice of modules is sufficient to be of interest to not only mathematicians, but also mathematically inclined scientists or engineers looking to advance their career by gaining a high-level qualification. You’ll complete your MSc with a piece of independent study, exploring a mathematical topic in detail, and conclude this with a dissertation.

If you’re interested primarily in applied mathematics, or your undergraduate degree is in science or engineering, starting with Calculus of variations and advanced calculus (M820) is ideal. Alternatively, if you’ve an undergraduate degree in pure mathematics, you might prefer to start with Analytic number theory I (M823). You can study one or both of these modules in the first year – students spend typically 10 hours per week on each module. Select from the range of pure and applied mathematics modules in subsequent years.

QUALIFICATION STRUCTURE

<table>
<thead>
<tr>
<th>MODULE</th>
<th>CREDITS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>You’ll choose 30–60 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus of variations and advanced calculus</td>
<td>30</td>
<td>M820</td>
</tr>
<tr>
<td>Analytic number theory I</td>
<td>30</td>
<td>M823</td>
</tr>
<tr>
<td>You’ll choose 0–30 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced mathematical methods</td>
<td>30</td>
<td>M833</td>
</tr>
<tr>
<td>Analytic number theory II</td>
<td>30</td>
<td>M829</td>
</tr>
<tr>
<td>Applied complex variables</td>
<td>30</td>
<td>M828</td>
</tr>
<tr>
<td>Approximation theory</td>
<td>30</td>
<td>M832</td>
</tr>
<tr>
<td>Coding theory</td>
<td>30</td>
<td>M836</td>
</tr>
<tr>
<td>Fractal geometry</td>
<td>30</td>
<td>M835</td>
</tr>
<tr>
<td>Nonlinear ordinary differential equations</td>
<td>30</td>
<td>M821</td>
</tr>
</tbody>
</table>

Postgraduate Certificate in Mathematics (C90)

You’ll choose another 60 credits from the modules above:

Postgraduate Diploma in Mathematics (E23)

You’ll choose another 30 credits from the modules above, plus you’ll study the following:

Dissertation in mathematics | 30 | M840 |

MSc IN MATHEMATICS

Option modules
Intermediate qualifications
Compulsory module
Awarded qualification

Module availability is subject to change.
We recommend that you study no more than one module (30 credits) in your first year and no more than two modules (60 credits) in subsequent years. Modules last 31 weeks and most students find that each module takes around 300 hours.

Normally, you must:
- complete at least one of the entry modules, *Calculus of variations and advanced calculus* (M820) or *Analytic number theory I* (M823), before studying any intermediate module
- complete *Analytic number theory I* (M823) before studying *Analytic number theory II* (M829)
- complete four modules before studying the *Dissertation in mathematics* (M840)\(^1\).

Otherwise, you may study modules in any order.\(^2\)

\(^1\)Some dissertation topics require you to have passed pre-requisite modules.
\(^2\)Some modules have start dates every other year.

### Applied Mathematics

<table>
<thead>
<tr>
<th>Applied Mathematics</th>
<th>Pure Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENTRY</strong></td>
<td></td>
</tr>
<tr>
<td><em>Calculus of variations and advanced calculus</em> (M820)</td>
<td><em>Analytic number theory I</em> (M823)</td>
</tr>
<tr>
<td><strong>INTERMEDIATE</strong></td>
<td></td>
</tr>
<tr>
<td><em>Applied complex variables</em> (M828)</td>
<td></td>
</tr>
<tr>
<td><em>Approximation theory</em> (M832)</td>
<td></td>
</tr>
<tr>
<td><em>Advanced mathematical methods</em> (M833)</td>
<td><em>Analytic number theory II</em> (M829)</td>
</tr>
<tr>
<td><em>Nonlinear ordinary differential equations</em> (M821)</td>
<td><em>Coding theory</em> (M836)</td>
</tr>
<tr>
<td></td>
<td><em>Fractal geometry</em> (M835)</td>
</tr>
<tr>
<td><strong>YOU CAN CLAIM THE POSTGRADUATE CERTIFICATE IN MATHEMATICS (C90)</strong></td>
<td><strong>YOU CAN CLAIM THE POSTGRADUATE DIPLOMA IN MATHEMATICS (E23)</strong></td>
</tr>
<tr>
<td>AFTER PASSING ANY TWO OF THE ABOVE MODULES</td>
<td>AFTER PASSING ANY FOUR OF THE ABOVE MODULES</td>
</tr>
<tr>
<td><strong>DISSERTATION</strong></td>
<td></td>
</tr>
<tr>
<td><em>Dissertation in mathematics</em> (M840)</td>
<td></td>
</tr>
</tbody>
</table>

**YOU CAN CLAIM THE MSc IN MATHEMATICS (F04) AFTER PASSING THE DISSERTATION AND ANY OTHER FIVE OF THE ABOVE MODULES**
POSTGRADUATE CERTIFICATE IN MATHEMATICS

This flexible course comprises two 30-credit modules from a wide choice, enabling you to tailor your studies to your particular area of interest. It’s the first stage of our postgraduate mathematics programme; you can progress on to the postgraduate diploma and finally the MSc in Mathematics. It will enable you to develop your problem-solving and decision-making capabilities and is applicable to work in industry, business and commerce.

POSTGRADUATE DIPLOMA IN MATHEMATICS

This postgraduate diploma comprises four 30-credit modules on a range of topics – including analytic number theory, calculus of variations and nonlinear ordinary differential equations – extending your understanding of key areas of mathematics. It’s the first two stages of our postgraduate mathematics programme; you can achieve the MSc in Mathematics by taking a further two 30-credit modules. You’ll find it’s applicable to a wide range of contexts including science, engineering and technology.

MORE ONLINE

To find out more about these courses, fees and funding, and how to register, go to openuniversity.co.uk/c90 or call 0300 303 5303
This masters degree allows you to create a personalised qualification across a range of disciplines.

You’ll expand your discipline-related knowledge at masters level, gain broader subject-specific knowledge and pursue further professional development in areas that align with your employment needs and professional aspirations.

**QUALIFICATION STRUCTURE**

There are two routes through this qualification:

**Route 1:** You can study 180 credits and specialise within one of the following broadly related study areas:
- Arts, Humanities and Language
- Education, Psychology and Health Science
- Science, Technology, Engineering and Mathematics
- Business, Finance, Human Resources and Law.

**Route 2:** You can choose to study 120 credits, specialising within one study area (as above) and take up to 60 credits from any other study area, including:
- Further professional development modules.

Module availability is subject to change.

**ARTS, HUMANITIES AND LANGUAGE MODULES**

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA Art History part 1</td>
<td>60</td>
<td>A843</td>
</tr>
<tr>
<td>MA Classical Studies part 1</td>
<td>60</td>
<td>A863</td>
</tr>
<tr>
<td>MA Creative Writing part 1</td>
<td>60</td>
<td>A802</td>
</tr>
<tr>
<td>MA English part 1</td>
<td>120</td>
<td>A815</td>
</tr>
<tr>
<td>MA History part 1</td>
<td>120</td>
<td>A825</td>
</tr>
<tr>
<td>MA Philosophy part 1</td>
<td>60</td>
<td>A853</td>
</tr>
<tr>
<td>Introduction to translation theory and practice</td>
<td>60</td>
<td>L801</td>
</tr>
</tbody>
</table>

**EDUCATION, PSYCHOLOGY AND HEALTH SCIENCE MODULES**

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children and young people’s worlds</td>
<td>60</td>
<td>E808</td>
</tr>
<tr>
<td>Understanding children’s development and learning</td>
<td>60</td>
<td>ED841</td>
</tr>
<tr>
<td>Educational leadership: agency, professional learning and change</td>
<td>60</td>
<td>EE811</td>
</tr>
<tr>
<td>Addressing inequality and difference in educational practice</td>
<td>60</td>
<td>EE814</td>
</tr>
<tr>
<td>Applied linguistics and English language</td>
<td>60</td>
<td>EE817</td>
</tr>
<tr>
<td>Learning and teaching: educating the next generation</td>
<td>60</td>
<td>EE830</td>
</tr>
<tr>
<td>Technology-enhanced learning: foundations and futures</td>
<td>60</td>
<td>H880</td>
</tr>
<tr>
<td>Openness and innovation in elearning</td>
<td>60</td>
<td>H817</td>
</tr>
<tr>
<td>Introduction to mental health science</td>
<td>60</td>
<td>S826</td>
</tr>
<tr>
<td>Principles of social and psychological inquiry</td>
<td>60</td>
<td>DD801</td>
</tr>
</tbody>
</table>

**SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS MODULES**

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information security</td>
<td>30</td>
<td>M811</td>
</tr>
<tr>
<td>Digital forensics</td>
<td>30</td>
<td>M812</td>
</tr>
<tr>
<td>Software development</td>
<td>30</td>
<td>M813</td>
</tr>
<tr>
<td>Data management</td>
<td>30</td>
<td>M816</td>
</tr>
<tr>
<td>Calculus of variations and advanced calculus</td>
<td>30</td>
<td>M820</td>
</tr>
<tr>
<td>Analytic number theory I</td>
<td>30</td>
<td>M823</td>
</tr>
<tr>
<td>Applied complex variables</td>
<td>30</td>
<td>M828</td>
</tr>
<tr>
<td>Advanced mathematical methods</td>
<td>30</td>
<td>M833</td>
</tr>
<tr>
<td>Molecules in medicine</td>
<td>60</td>
<td>S807</td>
</tr>
<tr>
<td>Space science</td>
<td>60</td>
<td>S818</td>
</tr>
<tr>
<td>Finite element analysis: basic principles and applications</td>
<td>30</td>
<td>T804</td>
</tr>
<tr>
<td>Manufacture materials design</td>
<td>30</td>
<td>T805</td>
</tr>
<tr>
<td>Network security</td>
<td>30</td>
<td>T828</td>
</tr>
<tr>
<td>Environmental monitoring and protection</td>
<td>30</td>
<td>T868</td>
</tr>
<tr>
<td>Making environmental decisions</td>
<td>30</td>
<td>T891</td>
</tr>
</tbody>
</table>
### Business, Human Resources, Law Modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to corporate finance</td>
<td>30</td>
<td>B858</td>
</tr>
<tr>
<td>Financial strategy: valuation, governance and ethics</td>
<td>30</td>
<td>B859</td>
</tr>
<tr>
<td>Research methods for finance</td>
<td>30</td>
<td>B860</td>
</tr>
<tr>
<td>The human resource professional</td>
<td>30</td>
<td>B863</td>
</tr>
<tr>
<td>Managing research in the workplace</td>
<td>30</td>
<td>B865</td>
</tr>
<tr>
<td>Employment relations and employee engagement</td>
<td>30</td>
<td>B866</td>
</tr>
<tr>
<td>Workplace learning with coaching and mentoring</td>
<td>30</td>
<td>B867</td>
</tr>
<tr>
<td>Exploring legal meaning</td>
<td>30</td>
<td>W820</td>
</tr>
<tr>
<td>Exploring the boundaries of international law</td>
<td>30</td>
<td>W821</td>
</tr>
<tr>
<td>Business, human rights law and corporate social responsibility</td>
<td>30</td>
<td>W822</td>
</tr>
</tbody>
</table>

### Further Professional Development Modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investment and portfolio management</td>
<td>30</td>
<td>B861</td>
</tr>
<tr>
<td>Derivatives and risk management</td>
<td>30</td>
<td>B862</td>
</tr>
<tr>
<td>Sustainable creative management</td>
<td>15</td>
<td>BB842</td>
</tr>
<tr>
<td>Marketing in the 21st century</td>
<td>15</td>
<td>BB844</td>
</tr>
<tr>
<td>Management beyond the mainstream</td>
<td>15</td>
<td>BB847</td>
</tr>
<tr>
<td>Leadership and management in intercultural contexts</td>
<td>15</td>
<td>BB848</td>
</tr>
<tr>
<td>The networked practitioner</td>
<td>30</td>
<td>H818</td>
</tr>
<tr>
<td>The critical researcher: educational technology in practice</td>
<td>30</td>
<td>H819</td>
</tr>
<tr>
<td>Project management</td>
<td>30</td>
<td>M815</td>
</tr>
<tr>
<td>Managing technological innovation</td>
<td>30</td>
<td>T848</td>
</tr>
<tr>
<td>Strategic capabilities for technological innovation</td>
<td>30</td>
<td>T849</td>
</tr>
<tr>
<td>Managing for sustainability</td>
<td>30</td>
<td>T867</td>
</tr>
<tr>
<td>Development: context and practice</td>
<td>30</td>
<td>T877</td>
</tr>
<tr>
<td>Capacities for managing development</td>
<td>30</td>
<td>T878</td>
</tr>
<tr>
<td>Conflict and development</td>
<td>30</td>
<td>T879</td>
</tr>
<tr>
<td>Making strategy with systems thinking in practice</td>
<td>30</td>
<td>TB871</td>
</tr>
<tr>
<td>Managing systemic change: inquiry, action and interaction</td>
<td>30</td>
<td>TU812</td>
</tr>
<tr>
<td>Institutional development</td>
<td>30</td>
<td>TU872</td>
</tr>
<tr>
<td>Continuing professional development in practice</td>
<td>30</td>
<td>U810</td>
</tr>
</tbody>
</table>

### At a Glance

**Course Code**: F81  
**Total Credits**: 180  
**Start Dates**:  
- Oct 2019  
- Nov 2019  
- Feb 2020  
- May 2020  
**Entry Requirements**: Entry to this qualification will typically require a bachelor’s degree or equivalent qualification relevant to your intended specialist area of study  
**Study Duration**: Part time: 3 years
You’ve taken the first step by requesting this prospectus. Continue your journey by visiting our website at openuniversity.co.uk and finding out more about the courses we offer and how studying with the OU works.

You’ll be able to:
- read more in-depth information on the qualifications you’re interested in
- discover more about the support you can receive from the University and fellow students
- find out how you can fund your studies, including our flexible payment options
- register for your course.

Or, if you’d prefer to speak to one of our advisers, contact us using the details provided on the back of this prospectus.

Alternatively, write to us at:
Student Recruitment
The Open University
PO Box 197
Milton Keynes
MK7 6BJ
United Kingdom

OTHER USEFUL INFORMATION

OUR OTHER PROSPECTUSES
Are you interested in other Open University qualifications? Download or order one of our other prospectuses at openuniversity.co.uk/prospectus.

SUBJECT-SPECIFIC PROSPECTUSES
- Arts and Humanities
- Business and Management
- Computing and IT
- Education, Childhood, Youth and Sport
- Engineering, Design and Technology
- Environment and Development
- Health and Social Care
- Languages and Applied Linguistics
- Law
- Psychology and Counselling
- Science
- Social Sciences

OTHER PROSPECTUSES
- Access Modules
- Open Qualifications
- Undergraduate Courses
- Postgraduate Courses

EQUALITY AND DIVERSITY
We’re committed to creating an inclusive university community where everyone is treated with dignity and respect. We challenge inequality, and anticipate and respond positively to different needs so that everyone can achieve their potential.

Find out more by visiting openuniversity.co.uk/equality.

DATA PROTECTION
We record your personal information when you contact us. We use this to manage enquiries, registration, study, examination and other services. Calls may be recorded to help us improve our service to you. When you contact us, we’ll tell you more about how we treat your personal information.

For more information go to openuniversity.co.uk/privacy.
AMBITIONS
PLANS
GOALS

WHAT’S NEXT?
Get in touch or go online to find out more:

0300 303 5303
openuniversity.co.uk

OTHER WAYS TO READ THIS PROSPECTUS

You may find it easier to access information from our website at openuniversity.co.uk.

We can also supply this prospectus as a PDF and in other formats. Please call 0300 303 5303, or email us from our website at openuniversity.co.uk/contact.

We have made all reasonable efforts to ensure that the information in this prospectus is accurate at the time of publication. However, we shall be entitled, if we consider it reasonably necessary (including in order to manage resources and improve student experience) to make changes, including to the availability of modules and qualifications, to qualification structure and to our regulations, policies and procedures. For current information, please refer to our online prospectus at openuniversity.co.uk/courses. If you require further information about the circumstances in which we may make changes, please contact us or refer to the Academic Regulations on our website at openuniversity.co.uk/academic-regulations.
GET IN TOUCH

IN ENGLAND, SCOTLAND, WALES, THE CHANNEL ISLANDS, THE ISLE OF MAN AND BFPO ADDRESSES
- Go to openuniversity.co.uk
- Email us from our website openuniversity.co.uk/contact
- Call our Student Recruitment team on 0300 303 5303

Lines are open (UK time)
Monday to Friday: 08:00–20:00
Saturday: 09:00–17:00
Calls are charged at the local rate when calling from a UK mobile phone or landline.

IN NORTHERN IRELAND
- Go to openuniversity.co.uk
- Email northernireland@open.ac.uk
- Call our Belfast office on 028 9032 3722

IN THE REPUBLIC OF IRELAND
- Go to openuniversity.edu
- Email ireland@open.ac.uk
- Call our Enquiry and Advice Centre in Dublin on (01) 6785399 or our Belfast office on +44 (0)28 9032 3722

ALL OTHER COUNTRIES
- Go to openuniversity.edu
- Call us on +44 (0)300 303 0266

I SIARADWYR CYMRAEG
Os ydych yn siarad Cymraeg a byddai’n well gennych drafod eich anghenion astudio drwy gyfrwng y Gymraeg, cysylltwch â:
Y Brifysgol Agored yng Nghymru, 18 Heol y Tollty, Caerdydd, CF10 1AP
- Ffoniwch ni ar 029 2047 1170
- Ebost wales-support@open.ac.uk