Young Applicants in Schools Scheme

Course list and guide to studying university level courses in S6

2023/24
Hello and welcome to the 2023 YASS Guide.

At The Open University – the UK’s largest university, with around 168,000 students worldwide and over 22,000 in Scotland – we continue to offer learning to suit you, anywhere, any time.

The YASS programme offers a wide range of courses so I’m sure that you will find something that appeals, and I hope you will make the decision to join over 11,000 students from Scottish schools who have taken part in YASS so far.

We continue to see the impact the recent pandemic and other world events have had in changing how people learn over the last year, and the need to deliver learning in a flexible way that suits people’s learning styles and lifestyles; YASS is a brilliant opportunity to develop online learning skills that are more valuable than ever, so I hope you will decide to study with us.

Good luck and happy studying.

Susan Stewart
Director of The Open University in Scotland
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Introduction
What is YASS?

YASS is The Open University (OU) in Scotland’s national bridging programme for S6 pupils, supporting your transition from school to university (and college or work). It offers the opportunity of studying a university level course in school alongside other S6 studies. It supports the development of a range of skills and knowledge that will help you succeed at university, college, or in the workplace as well as giving you the chance to explore a subject in more depth.

This guide is designed to introduce you to the Young Applicants in Schools Scheme (YASS), explain what you can study, and how it can help develop some of the key skills you will need to succeed when you leave school.

Who can study YASS?

YASS is open to all S6 pupils in full-time education in Scottish schools. Since the programme began, over 11,000 students have studied with us.

It’s helped me build communication skills with other students and independent study skills. The content of the course has also helped me to decide if I’d like to continue learning about engineering in the future and it’s just helped me build loads of skills that are useful in university.

YASS student

There is a dedicated section for teachers at end of this guide which includes information on registration.
What are the benefits of taking part in YASS?

90% of students surveyed last year told us that they gained at least one new skill by taking part in YASS. The most common skills that students tell us they have developed are independent learning, time management, study and IT skills – all of which are key to success at university, college or in the workplace. Taking a course through YASS also lets you explore a subject in more detail before starting university or college, as well as helping to strengthen your application. 94% of students surveyed recently told us that taking the YASS modules had clarified their plans post S6 whether to go to further or higher education or into employment or a gap year.

How much does it cost?

YASS is fully funded by the Scottish Funding Council (SFC), meaning courses are completely free for pupils in local authority schools and there is no competition for places – any S6 student can register on a course. Pupils who attend independent schools can self-fund their course or be sponsored by their school.

What impact has Brexit had on registering for a course?

Post-Brexit changes have an impact on EEA (European Economic Area) and Swiss nationals and their family members starting a course in 2023/24 – this means that additional fee assessment checks need to be asked by registration teams. To avoid delays in registering on YASS modules, we recommend you aim to complete registration early and ahead of given deadline dates so all the appropriate checking processes can be undertaken. These checks are an OU requirement so that the correct funding can be applied to students.
What subjects can I study?

We offer courses in a wide range of subject areas including Maths, Science, Law, Sport and Exercise, Arts, Language, Business, and Health and Social Care. YASS courses are at first year university level (level 1 at the Open University) which equates to level 7 on the Scottish Credit and Qualifications Framework. The courses carry 10 or 30 credit points. For a full list of courses, see the Course Guide.

How do I plan my YASS study?

We recommend that you start thinking about YASS in S5. This will give you time to choose the right course for you and think about how you will fit YASS study around your other S6 commitments. Speak to your guidance teacher or the YASS coordinator in your school about courses that would be a good fit. You can find details of all the courses on offer through YASS in the Course Guide and on the YASS website.

How long do courses last?

Most courses start in October and finish in March or June. There are exceptions to this so always check the length of a course before deciding to register.

How much time do I need to study for a course?

A 30-credit course requires 300 hours of study, and a 10-credit course requires 100 hours of study. Generally, you will need to set aside 3–4 hours a week for 10-credit courses and 8–14 hours for 30-credit courses.

How do I register for a course?

Registration is completed through your school. If your school is participating in YASS, speak to the designated YASS co-ordinator, they will arrange your registration. If your school does not currently participate in YASS, you can ask a teacher to contact us at Scotland-YASS@open.ac.uk or you can get in touch yourself to find out more.

More information on how to register can be found in the Guide for teachers.
Being a YASS student
YASS study is different to school

As you probably already know, learning with the OU through YASS is done online. This means that most of the information about your course will be sent via your email address. You will be given a login to StudentHome, where you will be able to find and track all the information related to your course. This includes the link to your course page, your study planner, contact details for your tutor/study adviser/student support team, and how to submit assessments and work.

Also, you may be asked to complete interactive online activities, take part in forums, real time online tutorials and sessions. These activities are where you will get to meet and talk to other OU and YASS students.

Did you know over 11,000 school pupils have already studied an OU course with YASS?
Online learning

Here are some of our top tips for getting started with online learning:

▶ Make sure you provide a personal email address, rather than your school email address. Also ensure that your email address is correct and clearly legible on your registration form. Your login details will be sent to this address, and you won’t be able to get started on your course without them.

▶ If you have any problems getting logged in, or you can’t see the details for your chosen course on StudentHome, get in touch with the YASS team straight away so there’s no delay to you getting started with your course.

▶ Make sure you check your emails regularly once you are registered with YASS, as that’s where all the important information about your course will be sent.

▶ Check your spam filter isn’t screening out our emails. Add the OU addresses you receive emails from to your contacts list, so your spam filter won’t block them. Also check your Junk mailbox for anything from us and move it to your inbox.
You can use StudentHome to see all the emails that have been sent to you already.

Most courses have an introduction or course guide on the course website that will give you loads of information about how to study your course online, including things like how to book tutorials, using online forums and submitting assessments online.

If your course will include OpenLearn content, have a look at this website for answers to frequently asked questions:

www.open.edu/openlearn/about-openlearn/
frequently-asked-questions-on-openlearn

Learn more about the computing skills needed for YASS study here
www.open.ac.uk/courses/do-it/computing-skills
YASS and your next steps
More than a qualification

A YASS course can widen your horizons, boost your prospects and build your confidence. Universities, colleges and employers respect and value the skills, knowledge and personal strengths you gain by completing a YASS course. It shows you are up for a challenge, have initiative, and can manage your time.

I would absolutely recommend the YASS course and that’s because it helps you learn initiative, self-discipline and also forward-planning which are not just study skills but also life skills.

YASS student

Skills gained through YASS

- Teamwork
- Discipline
- Organisation
- Commitment
- Confidence
- Research
- Working independently
- Resilience
- Communication
- Managing conflicting priorities
- Time management
- IT & digital literacy

89% of students surveyed last year agreed that YASS helped develop their independent learning skills
University and college

Studying a course through YASS can help you to feel more prepared for your next steps, not only with skills that will help you to make the step into learning at university or college, but also by introducing you to new ways of learning.

UCAS applications

If you are applying to university, you can add your YASS course into the ‘Education’ section by selecting ‘Add Qualification’ in the UCAS form and search for YASS where you can then enter the module taken. It’s also beneficial to highlight what you have learnt from your YASS course in your personal statement – not just the knowledge you have gained but the skills too and how it has helped you to prepare for studying at university.

Further OU study

Once you have completed your YASS course, you can use it to help towards an Open University degree either when you leave school or at another point in the future.

Your career

One of the big benefits of studying through YASS is access to the Careers and Employability service at the OU. This support is available throughout your YASS course and for three years after you finish. Support includes:

- Online webinars
- Downloadable guides and the Career Planning and Job Seeking Workbook
- Online interactive career planning and CV building tools
- One-to-one guidance from experienced careers consultants

93% of students surveyed last year agreed that YASS helped develop their independent learning skills
I think that studying my course has helped not only confirm what I want to study at university but also branch out into other topics that I wouldn’t have considered.

YASS student

Taking a YASS module has definitely helped bridge the gap between university and school.

YASS student

Find out more about YASS
www.open.ac.uk/scotland/study/young-applicants-schools
Preparing for YASS
Before you get started

This part of the guide lists the different courses that you can take through YASS. You can only pick one so ensure you read the descriptions and details carefully to make the best choice.

Here are a few details to think about when you are reading the course descriptions and before you pick your YASS course:

- **Entry requirements**
  Some courses require you to have a Higher in a specific subject so make sure you know what you need.

- **Start and finish dates**
  How long will the course last and when do you need to get started?

- **Required study hours**
  This gives you an idea of how many hours each week that you will need to put in to be successful on the course.

- **Exam/assessment dates**
  It’s a good idea to check whether any of these dates clash with exams or deadlines in school.

- **Required online activities**
  Will you need to work with other people online as part of the course and do you feel comfortable doing that?

- **Academic support provided**
  Will you have a tutor, academic advisor or a support team available on a course?

- **IT requirements**
  Is there any specialist IT that you need access to? How will you access it if so?

- **You have a valid email account**
  It’s vital that we have the correct email address as it will be used to send you important information about your course. You also need to be able to check your emails regularly. Please ensure your provide a personal email address, rather than your school email address.
**Being an OU student**

Taking a YASS course will be quite different to how you are used to learning at school. We recommend that you get to know how learning with the OU works before you start your YASS course so that you feel comfortable working through it.

The OU has a short module called ‘Being an OU student’ that you can find on OpenLearn. OpenLearn is the OU’s site for free learning that anyone can sign up for. ‘Being an OU Student’ takes about 12 hours to complete and gives you a really good idea of how learning works with the OU. If you don’t have time to complete the whole module before your course starts, we recommend looking at session 2 at least, as it has the most useful information for YASS students.

You might also see that some courses in the guide recommend OpenLearn taster courses for you to try before you start the YASS course. It is worth putting some time aside to complete the recommended OpenLearn courses as this will get you off to the best start with your YASS course.

**What is OpenLearn?**

OpenLearn is the OU’s site for free learning that anyone can sign up for. OpenLearn delivers bite-sized learning experiences designed to fit easily into daily life.

Anyone can set up an account on OpenLearn and start exploring the courses available, including the recommended taster courses listed in this guide. All you need to do is search for the course title included in the Preparatory Work section of each course’s description on OpenLearn and get started!

Learn more [www.open.edu/openlearn](http://www.open.edu/openlearn)
YASS courses
2023/24
To succeed at university, you need to be able to read and think about a wide range of study material, make useful notes, and write assignments that answer the question. This course will help you to develop the skills and language to do this. You’ll explore how university study materials are organised and how academic language is used in them.

You’ll work with authentic materials from a range of Open University courses which cover areas of academic study such as: science, the arts, humanities, social sciences, business, and health studies. You’ll look at the similarities and differences in language across these areas. This will give you the chance to develop the particular language and skills you need for your own chosen areas of study.

The course is made up of 40% reading, 40% writing, 10% listening and 10% speaking. Your interactions with the study materials, your tutor and other students on the course will take place online. You’ll complete interactive activities, contribute to forums and participate in online tutorials in real time.

Preparatory work

Look at the free short taster OpenLearn course: How to be a critical reader
This course enhances your language and communication skills needed in the world of business and management through the application of key business concepts and frameworks to real business case studies from various organisations.

This course is designed to develop your use of business language through developing your written and spoken communication skills. You will look at case studies and texts prepared by businesses and business studies students.

The course has three blocks:

- Analysing and reporting
- Influencing
- Collaborating

You will also be asked to reflect on how your communication skills have developed during the course and how you can put these skills into practice in your studies and workplace, both now and in the future.

Preparatory work

Look at the free short taster OpenLearn course: Business communication: writing a SWOT analysis
This course covers the fundamentals of financial and management accounting as well as the essential skills, knowledge and ethics required to be a professional accountant.

You will learn the fundamental concepts and techniques of financial and management accounting as well as a range of relevant skills. These include double-entry bookkeeping, advanced numeracy, reading and analysing relevant case studies, using information and communication technologies, preparing appropriate reports and using spreadsheets.

Proper accounting is crucial for the prosperity and survival of any organisation. While this course focuses on the accounting required for a sole trader, the skills and knowledge you’ll learn are of central importance for accounting and managing in any organisation, whether for-profit, not-for-profit or governmental.

**Careers and professional recognition**

This course is of particular relevance if you wish to qualify as a professional accountant as this module is designed to be an ideal springboard for such an ambition. This course is accredited by the International Association of Bookkeepers (IAB) and on successful completion, you will be able to apply to become a Member of the IAB.

**Preparatory work**

Look at the free short taster OpenLearn course: *Fundamentals of accounting*
This course examines the range of human activity that is ‘engineering’, setting current practice in a historical context and looking forward to new developments that will help shape the future. Key scientific principles, mathematical techniques and design methodologies are introduced and explained, to equip you with a basic toolkit on which to build further study. Mathematics is presented in an engineering context to emphasise relevance and build your confidence in framing problems, addressing design challenges and formulating solutions. Reflective practice is encouraged throughout, and you will have the opportunity to share and discuss aspects of your work with other students.

The course is presented in two parts. Part 1 introduces the scientific and social context within which engineering has developed and is currently practised while design engineering is the focus of part 2.

Your study will be guided from the course website, which includes interactive online activities, practice quizzes and media clips. You will have opportunities to communicate and work online with other students and have tutor support throughout the course.

Preparatory work

Look at the free short taster OpenLearn course: *An introduction to design engineering*.

You can also complete the quiz available at the following webpage, as preparation for this course: https://students.open.ac.uk/openmark/engineering.ayrf/
This course will equip you with a comprehensive toolbox of relevant knowledge, understanding and skills and introduce you to issues encountered in computing and IT, including the profound social and ethical challenges posed by these technologies. You will also develop your key skills including communication, numeracy and digital and information literacy (DIL).

This course is presented in three blocks:

The digital world the digital technologies that pervade our home, work and social lives

Creating solutions programming skills for creating solutions to simple problems;

Connecting people, places and things the computer networks that allow us to interact with others.

Careers

This course has particular relevance for those wishing to develop a career in the computing and IT industry – providing many opportunities to demonstrate relevant technical knowledge and practical IT skills.

Preparatory work

Look at the free short taster OpenLearn course: Introducing Computing and IT

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**Engineering, Computing & Technology**

**Introduction to Computing and Information Technology 1**

**Website**

www.open.ac.uk/courses/modules/tm111

**Credits**

30 at SCQF (Level 7)

**OU code**

TM111

**Duration**

October 2023 to March 2024

**Recommended weekly study hours**

12 – 14

**Assessments**

3 Tutor-marked assignments (TMAs),
3 Interactive computer-marked assignments (iCMAs)

**Academic support**

Tutor
This course provides an opportunity to sample some of the key areas in computing and information technology. You will be introduced to three topics as tasters for your future studies and career: robotics, networking, and operating systems. Studying these topics will enable you to develop essential skills for future employment in the computing and IT industry and better understand the different routes through our curriculum.

This course will enable you to:

- Increase your knowledge of robotics, computer networks and operating systems.
- Develop a variety of skills appropriate to a career in the computing and IT industry.
- Demonstrate your understanding of technical subjects and your technical skills through the development of a portfolio.

Careers

This course has particular relevance to those wishing to develop a career in the IT industry. It provides many opportunities to demonstrate relevant technical knowledge and practical IT skills.

Please see the course website for IT and computing requirements.

Preparatory work

Complete this quiz as preparation for this module: students.open.ac.uk/openmark/tm129.ayrf/
This course is designed to introduce key concepts relating to languages, language learning, plurilingualism and intercultural communication.

Exploring languages and cultures will equip you with a sound linguistic and intercultural awareness. The former will help you get the most out of your language studies and the latter will help you develop a critical understanding of intercultural issues throughout your further study.

The course consists of four blocks:

Language and culture introduces basic concepts relating to the nature of language and culture, and looks at people’s personal experiences of learning foreign languages and cultures.

Languages, cultures and communities broadens the perspective from individuals to society at large, looking at the often complex relationships between language and culture in communities.

Intercultural competence at work focuses on language and culture at the workplace, with special attention to intercultural skills and employability.

Language and communication in the digital age gives an overview of the role that digital communication and resources play in a multilingual and multicultural society.

Preparatory work

Look at the free short taster OpenLearn course: Exploring languages and cultures
### Introduction to French Studies (beginners)

<table>
<thead>
<tr>
<th><strong>Website</strong></th>
<th><a href="http://www.open.ac.uk/courses/modules/l102">www.open.ac.uk/courses/modules/l102</a></th>
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<tbody>
<tr>
<td><strong>Credits</strong></td>
<td>30 SCQF (Level 7)</td>
</tr>
<tr>
<td><strong>OU code</strong></td>
<td>L102</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>October 2023 – July 2024</td>
</tr>
<tr>
<td><strong>Recommended weekly study hours</strong></td>
<td>8 – 10</td>
</tr>
<tr>
<td><strong>Assessments</strong></td>
<td>4 Tutor-marked assignments (TMAs), 4 Interactive computer-marked assignments (iCMAs)</td>
</tr>
<tr>
<td><strong>Academic support</strong></td>
<td>Tutor</td>
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This course is designed to develop the skills you need to speak and understand simple French in everyday contexts. It explores life in French-speaking countries and communities, introducing you to a wide range of practical situations such as travelling, shopping, working and eating out. Study resources include printed materials and a dedicated website with a variety of online activities which support independent learning. Together, they’ll give you not just language skills but a real feel for French-speaking cultures too.

Learning to use another language involves acquiring the four skills of listening, reading, speaking and writing. Introduction to French studies (beginners) (L102) allows you to practise those skills and offers a variety of activities and topics to cater for different learning needs and interests.

This course is designed to enable you to achieve a level of language proficiency equivalent to level A2 of the Council of Europe Common European Framework of Reference for languages.

You will have developed your knowledge and understanding of the language as well as an awareness of cultural diversity in French-speaking countries which form a key part of the learning outcomes for studying at this level.

**Preparatory work**

Look at the free short taster OpenLearn course: *Getting started with French 1, 2 and 3*. 
This course is designed to develop the skills you need to speak and understand simple German in everyday contexts. It explores life in German-speaking countries and communities, introducing you to a wide range of practical situations such as travelling, shopping, working and eating out. Study resources include printed materials and a dedicated website with a variety of online activities which support independent learning. Together, they’ll give you not just language skills but a real feel for German-speaking cultures too.

Learning to use another language involves acquiring the four skills of listening, reading, speaking and writing. Introduction to German studies (beginners) (L103) allows you to practise those skills and offers a variety of activities and topics to cater for different learning needs and interests.

This course is designed to enable you to achieve a level of language proficiency equivalent to level A2 of the Council of Europe Common European Framework of Reference for languages.

You will have developed your knowledge and understanding of the language as well as an awareness of cultural diversity in German-speaking countries which form a key part of the learning outcomes for studying at this level.

Preparatory work

Look at the free short taster OpenLearn courses: Getting started with German 1, 2 and 3
Languages

Introduction to Spanish Studies (beginners)

Website
www.open.ac.uk/courses/modules/L106

Credits
30 at SCQF (Level 7)

OU code
L106

Duration
October 2023 – July 2024

Recommended weekly study hours
8 – 10

Assessments
4 Tutor-marked assignments (TMAs),
4 Interactive computer-marked assignments (iCMAs)

Academic support
Tutor

This course is designed to develop the skills you need to speak and understand simple Spanish in everyday contexts. It explores life in Spanish-speaking countries and communities, introducing you to a wide range of practical situations such as travelling, shopping, working and eating out. Study resources include printed materials and a dedicated website with a variety of online activities which support independent learning. Together, they’ll give you not just language skills but a real feel for Spanish-speaking cultures too.

Learning to use another language involves acquiring the four skills of listening, reading, speaking and writing. Introduction to Spanish studies (beginners) (L106) allows you to practise those skills and offers a variety of activities and topics to cater for different learning needs and interests.

This course is designed to enable you to achieve a level of language proficiency equivalent to level A2 of the Council of Europe Common European Framework of Reference for languages.

You will have developed your knowledge and understanding of the language as well as an awareness of cultural diversity in Spanish-speaking countries which form a key part of the learning outcomes for studying at this level.

Preparatory work

Look at the free short taster OpenLearn course: Getting started with Spanish 1, 2 and 3
On this course, you will develop your confidence in listening, reading, writing, speaking and interacting in French, as well as your knowledge and understanding of French-speaking societies and cultures. In addition, the module is designed to expand your academic, digital and employability skills in French contexts. You will have the option to study most activities in a book or as interactive online activities on the module website. The website uses authentic online resources in support of independent and collaborative learning.

This course is based around six themes: geography; celebrations, customs and traditions; work; leisure and culture; society and history.

Alongside language-specific skills and knowledge (e.g. grammar, vocabulary, pronunciation, reading, writing, listening, speaking, interacting, cultural knowledge), you will develop intercultural communication skills, translation skills, as well as academic, digital and employability skills. You will also learn about working practices in French-speaking countries and about using appropriate conventions for writing CVs and letters of application.

This course will develop your proficiency in French to a level equivalent to B1 level of the Council of Europe’s Common European Framework of Reference for languages.

Preparatory work

Look at the free short taster OpenLearn course: *Intermediate French: Understanding spoken French*
On this course, you will develop your confidence in listening, reading, writing, speaking and interacting in German, as well as your knowledge and understanding of German-speaking societies and cultures. In addition, the course is designed to expand your academic, digital and employability skills in German contexts. You will have the option to study most activities in a book or as interactive online activities on the module website. The website uses authentic online resources in support of independent and collaborative learning.

This course is based around six themes: geography; leisure, culture and the media; work and education; traditions and celebrations; history and society.

Alongside language-specific skills and knowledge (e.g. grammar, vocabulary, pronunciation, reading, writing, listening, speaking, interacting, cultural knowledge), you will develop intercultural communication skills, translation skills, as well as academic, digital and employability skills. You will also learn about working practices in German-speaking countries and about using appropriate conventions for writing CVs and letters of application.

This course will develop your proficiency in German to a level equivalent to B1 level of the Council of Europe’s Common European Framework of Reference for languages.

Preparatory work

Look at the free short taster OpenLearn course: Advanced German: Language, culture and history
On this course, you will develop your confidence in listening, reading, writing, speaking and interacting in Spanish, as well as your knowledge and understanding of Spanish-speaking societies and cultures. In addition, the module is designed to expand your academic, digital and employability skills in Spanish contexts. You will have the option to study most activities in a book or as interactive online activities on the module website. The website uses authentic online resources in support of independent and collaborative learning.

This course is based around six themes: leisure and culture; geography; work, employment and unemployment; history; celebrations, customs and traditions; and society.

Alongside language-specific skills and knowledge (e.g. grammar, vocabulary, pronunciation, reading, writing, listening, speaking, interacting, cultural knowledge), you will develop intercultural communication skills, translation skills, as well as academic, digital and employability skills. You will also learn about working practices in Spanish-speaking countries and about using appropriate conventions for writing CVs and letters of application.

This course will develop your proficiency in Spanish to a level equivalent to B1 level of the Council of Europe’s Common European Framework of Reference for languages.

Preparatory work

Look at the free short taster OpenLearn course: Intermediate Spanish: Understanding spoken Spanish
This is a two-part course. To gain the credit you must complete both parts of this course.

This course introduces you to the Scottish legal system. You will consider the distinct nature of the Scottish legal system and Scots law and the influence both they and Scottish lawyers have had internationally. You will explore key skills including academic writing, using digital tools, articulating and engaging with legal issues, developing persuasive argument, developing and managing your own study goals and time management.

The aims for the course are:

▶ demonstrate knowledge and understanding of how law is made in Scotland,
▶ analyse, explain and evaluate Scottish law making and Scottish legal culture,
▶ select, interpret, communicate information relevant to law making in Scotland in a way appropriate to your subject, purpose and audience,
▶ digital literacy, using digital tools for learning and working,
▶ articulate and engage with relevant legal and ethical issues,
▶ demonstrate insight into personal goals, preferences and aptitudes.

All the materials required for your studies are provided online.
Part one: Independent learning

During this part of the course you will work wholly independently and there is an element of choice. You must complete and pass three of the four Badged Open Courses (BOCs) listed below, by the end of January.

BOCs offered are:

- *The Scottish Parliament and law making*
- *Scottish courts and the Law*
- *Legal skills and debates in Scotland*
- *Law and change: Scottish legal heroes*

All the materials you require for successful study are contained within the BOCs. You must successfully complete your three chosen BOCs to be eligible to study part two of the course.

Part two: Assessment course and credit

Part two of the course builds on the knowledge gained through the BOCs. You will learn about developing a persuasive legal argument, reading for academic purposes, academic writing skills, evaluating sources of information and using evidence to develop a persuasive argument.

Careers

This course provides an excellent beginning if you want to expand your understanding of the distinct nature of the legal system in Scotland and the role of the Scottish Parliament. It also provides an opportunity to develop a number of sought after skills relevant to both further study and employment.
This course provides a gentle start to the study of mathematics. It will help you to integrate mathematical ideas into your everyday thinking and build your confidence in using and learning mathematics. You’ll cover statistical, graphical, algebraic, trigonometric and numerical concepts and techniques, and be introduced to mathematical modelling. Formal calculus is not included, and you are not expected to have any previous knowledge of algebra.

In order to study this course successfully you should expect to be actively doing mathematics, rather than just reading it. You will also be encouraged to develop skills in interpreting and explaining mathematics, and this aspect will be assessed in some of the assignment questions.

The course contains many real-world contexts such as journey planning, glaciers, supply and demand, depreciation, poverty levels, chance events, and medical conditions (such as cancer), to help illustrate mathematical topics.

Preparatory work

Visit our MathsChoices website:

mathschoices.open.ac.uk

Here you will find advice about where to begin your study in maths. You can also take a self-assessment quiz to help you decide if this is the right course for you.
From this course you will learn how to use basic statistical tools and quantitative methods that are useful in business, government, industry, medicine, the economy, and most academic subjects. Topics covered include summarising data; examining relationships; randomness and sampling distributions; probability; testing hypotheses; and estimation.

Using data from a range of applications, you’ll learn practical statistical techniques and fundamental principles, as well as using software and a calculator to analyse data. The skills introduced will be ideal if you plan to study more mathematics courses or if you encounter data in another subject or your daily life.

This course is designed for people who have not studied statistics before. It focuses on the application of statistics, adopting the attitude that statistics is about solving problems.

**Careers**

This course may help you to gain membership of the Institute of Mathematics and its Applications (IMA).

**Preparatory work**

Before undertaking this course, we recommend that you work through courses 1 – 6 and course 8 on our Maths Help website:

mathshelp.open.ac.uk
Mathematics

Essential Mathematics 1

<table>
<thead>
<tr>
<th><strong>Website</strong></th>
<th><a href="http://www.open.ac.uk/courses/modules/mst124">www.open.ac.uk/courses/modules/mst124</a></th>
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<tbody>
<tr>
<td><strong>Credits</strong></td>
<td>30 at SCQF (Level 7)</td>
</tr>
<tr>
<td><strong>OU code</strong></td>
<td>MST124</td>
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<tr>
<td><strong>Duration</strong></td>
<td>October 2023 – June 2024</td>
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<tr>
<td><strong>Recommended weekly study hours</strong></td>
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<td><strong>Assessments</strong></td>
<td>4 Tutor-marked assignments (TMAs),</td>
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<td>4 Interactive computer-marked assignments (iCMAs),</td>
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<td><strong>Entry requirement</strong></td>
<td>Higher Maths</td>
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This course provides a broad and enjoyable foundation for university-level mathematics, but you do require some prior knowledge. It teaches you the essential ideas and techniques that underpin university-level study in mathematics and mathematical subjects such as physics, engineering and economics. You’ll study a range of fundamental topics – including calculus, vectors, matrices and complex numbers – and use mathematical software to solve problems.

There are eleven study units that are assessed in this course.

In the first two, you’ll revise and extend the basic mathematical knowledge and skills in basic algebra and graphs that should mainly be familiar to you. This revision material should help you identify and fill any gaps in your previous knowledge and develop your basic mathematical skills to the level that you’ll need in the rest of the module. The first two units also teach you about communicating mathematics and introduce you to the mathematical software that you’ll use in the course.

Preparatory work: much of the material in the first two units will be available online, so you can make a start on revision before the course begins.

You can also visit our MathsChoices website:

mathschoices.open.ac.uk

Here you will find advice about where to begin your study in maths. You can also take a self-assessment quiz to help you decide if this is the right course for you.
In this course, you’ll examine fundamental concepts in physics and the space sciences. You’ll learn through solving physical science problems while acquiring computer programming knowledge and practising your existing maths skills.

To begin, you’ll develop your understanding of different scales – particularly those that are much larger or smaller than will be familiar to you. Through the nine topics, you’ll then meet concepts and principles in classical and quantum physics and the space sciences.

Topics include the quantum realm, components of the universe, exploring the solar system and energy in society.

**Careers**

While exploring a variety of interesting topics, you’ll develop your problem-solving abilities and improve your computing, mathematical and communication skills. These are valued in all work contexts, but particularly in jobs requiring a precise and quantitative approach.

**Preparatory work**

Before you can register on this course you must complete the *Are you ready for SM123* self-assessment course. You can access this quiz at the following webpage:

www.open.ac.uk/courses/contentlibrary/imagelibrary/pdfs/are-you-ready-for-sm123.aspx

You can also look at the free short taster OpenLearn course: *Particle Physics*
This innovative and flexible course allows you to tailor your study by choosing from a list of topics across a range of the science disciplines. This course will make use of OpenLearn and other OU topic content. Depending on the length of the topics chosen, you may focus on one topic or study three different topics. The end of course assessment will explore what you have learned along with the skills you have developed to be a successful science student.

Single topic subject choices include:

- **Galaxies, stars and planets** which explains how the Sun gets its energy and how astronomers observe the Sun and its interior as well as providing an introduction to the planets and their satellites.

- **Molecules, medicines and drugs: A chemical story** which focuses on the chemistry that underlies the development of drugs and medicines that relieve pain and effect cures as well as how drugs interact with and affect their target areas in the human body.

- **Plants and people** which explores the role that plants play in our everyday lives, in food, biofuels, bioplastics and medicines as well as their role in combating climate change.

- **The frozen planet** which explores the wonder of the polar world and explains how ice has shaped and controls our planet.
Or alternatively you can create your own topic by choosing three short courses from the following options:

- An introduction to exoplanets
- Astronomy with an online telescope
- Citizen science and global biodiversity
- Discovering chemistry
- Microgravity: Living on the International Space Station
- Moons of our Solar System
- The science of alcohol
- The science of nutrition and healthy eating
- Understanding antibiotic resistance
- Understanding autism
Why are markets so powerful in most economies today? What is the role of the government in different economies, and how does this role shape opportunities of different people and firms? What explains global inequalities? You’ll unravel these and similar questions using insights from recent history, key economic thinkers, and drawing on economic perspectives and examples.

This course primarily aims to:

- Provide you with foundations of economics and an initial set of skills and tools economists use.
- Provide an insight into how economics and the economies have evolved over time.
- Engage you with a large number of perspectives within and around the discipline of economics, and to embed standard economics in context.

Preparatory work

Look at the free short taster OpenLearn course: *Exploring economics: The secret life of t-shirts*
This innovative course sets personal finance against its wider social, economic and political background. You’ll be provided with a gentle introduction to aspects of economics, while also gaining practical tools and ideas on how to manage your own money effectively. The course is structured around four themes: the changing economic, political and social context; individuals, households and other relationships; economics and the real world; and the life course and financial planning. You’ll study income, expenditure, debt, savings and investments, housing, insurance, pensions and caring, critically appraising the balance between personal and social responsibility for financial well-being.

This course has three primary aims to give you:

▶ The knowledge, skills, tools and confidence to manage your own money well.

▶ Introduce the social sciences, especially economics, relating them to the real world in which we live.

▶ Gently build and practise your study skills and employability skills as a strong foundation for your further studies at the OU and life beyond.

Throughout the course, you’ll share in the lives of 12 households, two each from the UK, USA, Germany, Sweden, Brazil and India.

Preparatory work

Look at the free short taster OpenLearn course: You and your money
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<tr>
<th><strong>Making Your Learning Count (4 Pathways)</strong></th>
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<td>1 Higher of your choice</td>
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Making your learning count is a flexible course which gives you the power to choose what you study. This way you can design your learning to fit your own interests. It builds on the learning you have previously undertaken and gives you the opportunity to learn new things too. During the course you will develop an appreciation of inter-disciplinary and multidisciplinary study, this will help you see the strength of considering things from different perspectives and will give you an understanding of how different subjects consider the world.

Importantly, it is also designed to develop your skills by helping you become:

- A more effective learner, for example identifying what you want to learn, and reflecting on and communicating about your learning.

- More confident online, for example by practising and using digital tools and resources.

- More employable, for example by demonstrating how to plan, organise and evaluate your work.

Using Your Higher

This course is designed to help you reflect on your previous learning and develop skills needed to succeed at university or college. Throughout the course you will use a Higher of your choice and your OpenLearn units to bring different knowledge, skills and learning experiences together.

A key part of your learning experience is selecting what you would like to study. The units you choose are up to you, but they must add up to 100 hours of OpenLearn units. There are hundreds of courses available on OpenLearn so some have been grouped together to help you select what you may find interesting.
OpenLearn units are grouped together in 4 pathways to help you plan:

- Arts
- Health and Social Care
- Social Science
- Sport and Exercise

This provides the flexibility to choose your study to suit your interests and future plans. These pathways are designed to give you some ideas of areas you might want to explore, especially if you’re interested in a career or further study in this area. You can also choose your own pathway made up of what interests you.

Each pathway has a range of units offered. You can decide to select all your units from one pathway, or you can mix and match. Choosing units from at least two different subjects will ensure you can complete all the assessment tasks, and it is also a good idea to choose at least one study skills course.

You will also have the support of a tutor by email and on the phone throughout the module. Along with the learning materials, your tutor will guide you through choosing subjects to study and the various activities on the module.
Arts Pathway
Using the wide choice of Arts OpenLearn units you can tailor the course content to suit you.

What you will study
You will need to study 100 hours of OpenLearn units, choices include:

- Writing fiction
- History and art history
- Design
- Music theory
- Classical studies and Latin

Health and Social Care Pathway
Using the wide choice of Health and Social Care OpenLearn units you can tailor the course content to suit you.

What you will study
You will need to study 100 hours of OpenLearn units, choices include:

- Psychology
- Modern slavery
- Social work
- Ageing
- Understanding autism

Social Sciences Pathway
Using the wide range of Social Sciences OpenLearn units you can tailor the course content to suit you.

What you will study
You will need to study 100 hours of OpenLearn units, choices include:

- Geography and environmental studies
- Philosophy
- Politics and international studies
- Social policy and criminology
- Sociology and anthropology

Sport and Exercise Pathway
Using the wide range of Sport and Exercise OpenLearn units you can tailor the course content to suit you.

What you will study
You will need to study 100 hours of OpenLearn units, choices include:

- Sport coaching and psychology
- Sport media and culture
- Science and wheeled sports
- Nutrition
- Sporting women in the media
YASS student journey

Registration
Receive login details by email
Receive guidance by email or phone call
Access module website & study planner
Log in to StudentHome
Start studying
Access support through StudentHome
Receive results
Submit assessments

Results are usually released to students in July and coordinators in August

Call 0131 549 7104
Email Scotland-YASS@open.ac.uk
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All information in this guide is indicative and correct at the time of going to press.