



**START
HERE**
GO ANYWHERE

Science



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Science

Science is a wide area of study with countless opportunities for the future.

Previously you may have experienced science as either Biology, Chemistry or Physics.

At Ayrshire College, these strands of science are interwoven to create a truer understanding of the world around you. The scale of your studies could stretch from looking at the processes within cells or the movement of planets within the Solar System.

Science has applications in all areas of life and the possible career options are varied and growing all the time.

► Start your career here

Search and apply for courses at www.ayrshire.ac.uk or call **Student Services** on **0300 303 0303**

Possible Careers

Archaeologist

Astronomer

Biomedical Scientist

Chemist

Dietician

Food Technologist

Marine Biologist

Microbiologist

Molecular Biologist

Nurse

Paramedic

Physicist

Research Scientist

Teacher/Lecturer

Zoologist

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Stacy Munro

Start here

NQ Biomedical Science,
HNC Applied Science,
HND Biological Sciences

Go anywhere

Medical Laboratory Assistant
NHS

At College I studied NQ Biomedical Science, HNC Applied Science and HND Biological Sciences. I was intrigued to understand what happens in the human body and how I could help others.

College gave me confidence in myself. After doing NQ Biomedical Science I was determined to complete HNC Applied Science.

Once I completed the HNC I was prepared and confident that I could go on and complete HND Biological Sciences. The help I received from the lecturers was amazing and the patience they all had with me was great. I was a mature student with very little computer knowledge and no qualifications. I gained computer skills along with multiple other skills that I need to do my job.

I left college in June 2018 and turned my part-time job as a care assistant into a full-time job. I applied for jobs within the NHS as a Medical Laboratory Assistant (MLA) and now work as an MLA in biochemistry.

My job involves labelling samples, bookings samples into the system, putting samples into the centrifuge, pipetting serum from samples to tubes and then giving the biomedical scientists the samples to analyse.

Working in science, you're not at the front line like doctors or nurses, but the job that we do is every bit as important as those who do work on the front line. Science changes and improves every day and I am proud to be a part of that."

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Carl Carey

Start here

Access to STEM (SWAP)

Go anywhere

Engineering Academy
University of Strathclyde and
Offshore Marine Engineering
Internship

"I have always been curious about science and engineering, and wanted to have a meaningful career doing something that I enjoy. I started the Access to STEM SWAP course to get my qualifications up to date, then apply to university. During this course we were given information about the Engineering Academy in collaboration with the University of Strathclyde. This course was extremely appealing as it allowed me to get into Year 2 at university and a paid internship opportunity. I'm hopeful that this will make me more desirable to companies and improve my chances of getting a job in my chosen sector.

The first step was completing an enhanced HNC at the college. This is the general mechanical engineering HNC and it is then expanded with extra practical units from Strathclyde.

College was a great experience for me and helped me build on study skills and techniques for learning.



Being organised and planning ahead has been the greatest thing that I've tried to take forward with me into university.

I am now almost finished my second year of mechanical engineering. I have secured a paid internship over the summer which I'm very excited about. I will work in Antwerp for 12 weeks with an international company who specialise in complex offshore marine engineering projects. I'm certain that I wouldn't have come across such an opportunity if it hadn't been for starting at college."

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Megan Borland

Start here

Higher Health Care Level 5
and HNC Applied Science

Go anywhere

BSc Nursing Studies (Adult),
Glasgow Caledonian University
Staff Nurse, Glasgow Royal Infirmary

"I have always found science really interesting and wanted to achieve a higher level qualification in order to study the human body. Studying science was a good route to take and I was interested in following this path because I wanted to become a nurse. Science was a core objective when looking at my nursing degree, as it still meant I had my career options open. If nursing turned out to be not I wanted to do, I could still get into a medical job such as working within a laboratory.

However, I am pleased to say, I am now a staff nurse working within acute medical receiving in Glasgow Royal Infirmary. I deal with patients who need to stay for observation. I help to care for them by completing tasks such as administering antibiotics or preparing patients for surgery."



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Science: Understanding Everything

Traditional scientific areas of Biology, Chemistry and Physics are studied, but these are combined to create courses focused upon two of these strands and how they relate to each other.

Choose from courses in:

Applied Sciences

Biosciences

Life Sciences

STEM

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Why choose Science?

- Science is about taking the world around you apart and working out how the bits interact.
- Making mistakes in science is often the best way forward, “Why did that happen?” is the most common question. Answering it is the challenge all scientists seek, sometimes leading to world-changing discoveries.
- If you want to work in areas where people’s lives are directly affected by the actions you take and the results you find, a career in science is the way forward.

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“Having a career in science really does open doors to you, not only in the jobs market, but also in developing many new skills. I have been involved in new drug innovations and technologies, which is really rewarding. My motivation has always been to help mankind fight diseases, and make pharmaceuticals cheaper and more readily available to the world.”

Michelle Lennon
Global Strategy
Execution Manager, Merck

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Are you right for the job?

- Why are things the way they are? Why do different substances interact the way they do? Why did that happen? What happens if I do this?
- These are the questions scientists ask themselves on a daily basis, if you find yourself asking them, you're ready to start!

What are employers looking for?

- A logical approach to problem solving, with a methodical mind.
- Good laboratory practices, with a positive approach to health and safety.
- Ability to present results and conclusions in a clear, orderly manner.

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Start Here

We run courses designed for people with no previous scientific experience and that prepare you for university entrance. If your skills are a bit rusty, these courses can refresh and reinvigorate your curious nature.

With experience, you can start studying more advanced concepts straight away.



Go Anywhere

Scientific processes and approaches are used in almost every profession and newly qualified students are always wanted. There are local opportunities with hospitals and businesses, but there's a wide range of positions available throughout Scotland or further if you wish.

There's a huge range of degree courses you can progress onto once you complete either the HNC or SWAP courses. Students have gone onto study the following areas at university: Anatomy, Archaeology, Biomedical Sciences, Green Technologies, Medical Imaging and Radiography, Microbiology, Paramedic Science, Physics, Secondary Teaching and Zoology.

Year 2 at Glasgow University to study Molecular Biology.

Please check with each university for their articulation requirements prior to your UCAS application. Entry is subject to availability of places and meeting entry requirements, other options may also be available.

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