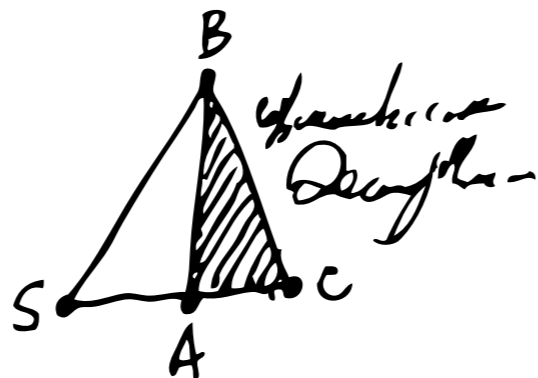


Science and Humanities



Our courses in Science and Humanities provide routes into careers and degree options ranging from social work and journalism to forensic science and medicine.

We also offer comprehensive adult education programmes in maths and English, available as a discrete add-on to certain courses.

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



Courses in this section

- BTEC Level 1 Diploma: Applied Science 157
- BTEC Level 2 Diploma: Applied Science 157
- BTEC Level 3 Extended Diploma: Applied Science 158
- Pre-Access to Higher Education Diploma: (Social Science) . . 158
- Access to Higher Education Diploma: (Humanities 159 and Social Science)
- Access to Higher Education Diploma: (Science) 159

Nathaly Bartsch, Access to Higher Education Diploma (Science)



Nathaly, mother of three decided she wanted to pursue a career as a pharmacist. Having left school with few formal qualifications, Nathaly enrolled onto the Access to Higher Education Diploma in Science at Leicester College. She has excelled ever since. Due to Nathaly's determination, she is due to begin her degree at De Montfort University and is on track to her chosen career.

Nathaly said: "Leicester College has been like home-from-home for me. I truly hope that I can inspire people who are in a similar situation to me, to step out of the boat and make the first steps towards a life-changing experience."



Use your smartphone to View Nathaly Bartsch



BTEC Level 1 Diploma: Applied Science

Location: Abbey Park Campus
Course Code: A8891
Course Length: One Year
Qualification Level: 1

What's it all about?

The course is designed to give a broad base of study in combined science. Topics include chemical products, living systems, energy and space, health and disease. You will develop your English, maths and ICT skills in a scientific setting.

What does it involve?

The course is made up of a number of modules covering the three sciences of Biology, Chemistry and Physics, these include:

- health and disease
- living systems
- science detection
- applications of energy/exploring space
- useful chemical products.

You will also complete a practical science project.

Are there exams?

No, assessment is continuous.

What entry qualifications do I need?

Two GCSEs (or equivalent) at any grade.

What can I do afterwards?

You can progress on to a wide range of BTEC level 2 Diploma courses including the Diploma in Applied Science. Science qualifications are highly regarded by employers. There are many possible eventual career paths including working as a technician in a school or pharmacy.

What days and times will I be in College?

15.5 hours per week over 36 weeks, Monday to Friday.

Are there any other things I need to know?

There may be short day visits to places of interest to support your studies. Details of these will be given to you by your personal tutor when you begin the course.

BTEC Level 2 Diploma: Applied Science

Location: Abbey Park Campus
Course Code: A8890
Course Length: One Year
Qualification Level: 2

What's it all about?

The structure of the course gives you a broad foundation in the theory and practice of science. You will be able to focus on your interests and explore new areas such as environmental science, forensic science, anatomy and physiology.

What does it involve?

There are three core modules, one in each of the three sciences of Biology, Chemistry and Physics:

- chemistry and our earth
- energy and our universe
- biology and our environment.

These will give you a broad foundation in the theory and practice of science.

The remaining modules are varied, ICT based and include:

- using mathematical tools in science
- working in a science based organisation
- science and the world of work.

Are there exams?

No, assessment is continuous.

What entry qualifications do I need?

Four GCSEs at grade D and above, including science and maths, or a level 1 vocational qualification. Plus GCSE English at grade D/E and above.

What can I do afterwards?

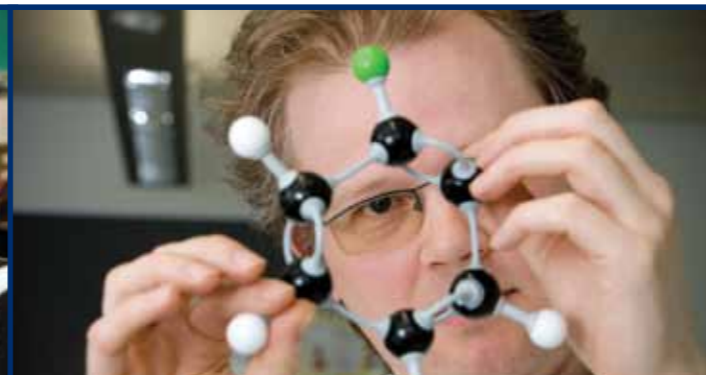
If you achieve an overall merit grade or better, you can progress further by enrolling on another level 2 programme or move on to a higher level qualification such as a level 3 BTEC in Applied Science. The successful completion of a level 2 Diploma can be used as a route towards entering initial employment as a science technician or practitioner in a wide variety of roles in the science industry.

What days and times will I be in College?

14 hours per week over 36 weeks, Monday to Friday.

Are there any other things I need to know?

This course is equivalent to four GCSEs graded A*-C. There will be short day visits to places of interest to support your studies. Details of these will be given to you by your personal tutor when you begin the course.



BTEC Level 3 Extended Diploma: Applied Science

Location: Abbey Park Campus
Course Code: A8880
Course Length: Two Years
Qualification Level: 3

What's it all about?

Learn about the basic principles underlying the application of biological, chemical, environmental and physical areas of science. Develop practical skills in science as well as your English, maths and ICT skills in a scientific setting.

What does it involve?

There are six core modules:

- fundamentals of science
- working in the science industry
- scientific investigations
- scientific practical techniques
- perceptions of science
- using mathematical tools in science.

There are additional optional units, to make 18 in total, including:

- physiology of human body systems
- medical physics techniques
- astronomy.

Are there exams?

There are no exams. Each unit is continually assessed in a variety of different ways, including practical work, research and project work and presentations.

What entry qualifications do I need?

Five GCSEs at grade C and above including English, science and maths.

What can I do afterwards?

Direct employment in a science based industry or progression to a university course in, for example, biology, biomedical science, genetics, pharmacy, medical physics among many others. Science qualifications are highly valued by employers. You could progress to a career in a variety of science based organisations, for example, engineering, pathology, forensics, nursing.

What days and times will I be in College?

15 hours per week over 36 weeks, Monday to Friday.

Are there any other things I need to know?

This is an ideal course for you if you prefer coursework to exams. There may be short day visits to places of interest to support your studies. Details of these will be given to you by your personal tutor when you begin the course.

Pre-Access to Higher Education Diploma: (Social Science)

Location: Abbey Park Campus
Course Code: A5509
Course Length: One Year
Qualification Level: 2

What's it all about?

This course is intended for adults returning to learning who have had a break from education.

What does it involve?

You will study a range of different topics in social sciences along with relevant study skills to support a return to study following a break from education. In addition, there are units of English, maths and ICT, all of which will help to raise your confidence and skills in preparation for employment or study at a higher level. You will be allocated a personal tutor who will monitor your progress and provide advice and support for a range of academic and personal targets as well as offering guidance for progression opportunities.

Are there exams?

No, assessment is continuous.

What entry qualifications do I need?

There are no formal entry qualifications but you do need to have very well developed communication skills, as well as a high degree of enthusiasm towards learning and a commitment to the course. Good levels of literacy and numeracy are essential and speakers of other languages should hold an ESOL qualification at level 2. You will be assessed at interview to ensure that this is the right level of course for you.

What can I do afterwards?

The Diploma is a level 2 qualification in its own right and shows employers you have academic skills at level 2. Alternatively you may progress to a level 3 vocational course or an Access to HE programme and gain entry to university.

What days and times will I be in College?

Classes run between 9.15am and 3pm for four days per week.

Are there any other things I need to know?

You will have an opportunity to discuss your career plan at interview.



Access to Higher Education Diploma: (Humanities and Social Science)

Location: Abbey Park Campus
Course Codes: A0381, A3084, A0385, A6795
Course Length: One Year
Qualification Level: 3

What's it all about?

This course is designed to give adult learners an opportunity to return to study and apply for Higher Education courses.

What does it involve?

Access courses are very demanding but very rewarding. You will need lots of commitment and a positive attitude to learning new skills and knowledge. The course has a strong tutorial system and you will receive full guidance and support for your HE and career plans. Your personal tutor will help you manage your learning effectively and provide you with friendly, confidential support through any problems you may have during your time at College. You will study a range of topics dependent on your plans, taken from Sociology, Psychology, History and English. You will also study GCSE equivalence units in English and maths, as well as Study Skills and basic ICT.

Are there exams?

Yes, exams and continuous assessment.

What entry qualifications do I need?

You should have literacy and numeracy skills at level 2; GCSE English and maths are desirable. You will be tested and assessed on an individual basis. If you wish to progress on to Social or Youth Work degrees you are advised to check with universities about the number of voluntary work hours you must complete. You are also recommended to check with your intended university if there are other specific entry requirements needed for particular courses, for example GCSE Biology/Maths for Psychology courses, or specific grades in course units.

What can I do afterwards?

You can progress on to a wide range of courses at university, for example, teaching, education studies, English, history, law, social work, youth work, journalism, international relations among many others.

What days and times will I be in College?

You will be in College for three days a week 9.30am to 2.45pm, between Monday and Friday.

Are there any other things I need to know?

There are a number of opportunities throughout the course to attend Higher Education Regional Fairs and Open Days. Learners on the Humanities pathway may be required to attend a theatre performance. You will have an opportunity to discuss your career plan at interview.

Access to Higher Education Diploma: (Science)

Location: Abbey Park Campus
Course Code: A0382
Course Length: One Year
Qualification Level: 3

What's it all about?

This course is designed to give adult learners the opportunity to return to study and apply for Higher Education courses.

What does it involve?

You will study a variety of core units in science (Chemistry, Biology) as well as units in study skills, IT and English and maths (GCSE equivalence). There is also a weekly tutorial.

Additional learning support for maths and English is available as part of the Access course.

Are there exams?

Yes, exams and continuous assessment.

What entry qualifications do I need?

It is essential that you possess a high degree of motivation towards study and a commitment to the course together with appropriate levels of literacy and numeracy and a background knowledge in science. It is preferable that you have level 2 qualifications in maths, English and science.

What can I do afterwards?

You can progress to a variety of degree or diploma courses in life sciences or chemistry as well as a range of vocational science degrees.

What days and times will I be in College?

Classes run between 9.15am and 3pm, Monday to Friday.

Are there any other things I need to know?

There are a number of opportunities throughout the course to attend Higher Education Regional Fairs and Open Days.

Please see page 10 for more information on Access courses.