

Foundation Certificate for Science and Engineering at Liverpool International College: module information

For degree entry from September 2020

ALL STUDENTS WILL STUDY THE FOLLOWING MODULES TO GAIN A SOLID BASE OF SKILLS:

- **English for Academic Purposes**
- **Extended Project (customised to your university degree and career aspirations)**



YOU WILL ALSO STUDY 2 OR 3 OF THESE MODULES THAT BEST FIT YOUR DEGREE AND CAREER GOALS. IN MANY CASES, YOU MAY CHOOSE SOME OR ALL OF THESE FROM A SELECTION, AND / OR CUSTOMISE AT LEAST 1 PIECE OF WORK ACROSS THESE MODULES.

- **Biology**
- **Chemistry**
- **Entrepreneurship**
- **Information Technology**
- **Intermediate Digital Applications**
- **Intermediate Mathematics**
- **Mathematics**
- **Physics**
- **Statistics**



YOU'LL TAKE PART IN PERSONAL DEVELOPMENT ACTIVITIES DURING YOUR COURSE, DESIGNED TO BOOST YOUR EMPLOYABILITY, CONFIDENCE AND INDEPENDENCE, AND HELP YOU MAKE NEW FRIENDS.

EXTRA MODULES TO HELP YOU REACH UNIVERSITY: 2.5 AND 3-TERM COURSES

IF YOU'RE TAKING A 2.5 OR 3-TERM COURSE, YOU'LL STUDY THE RELEVANT MODULES ABOVE, AND 1 SET OF MODULES IN THE TABLE BELOW, DEPENDING ON YOUR ENGLISH LANGUAGE LEVEL AND DEGREE:

IF YOU HAVE AN ENGLISH LANGUAGE LEVEL THAT'S BELOW UKVI IELTS 5.5:	IF YOU HAVE AT LEAST UKVI IELTS 5.5 OR EQUIVALENT, OR DON'T NEED TO TAKE AN IELTS TEST:
<ul style="list-style-type: none"> • English for Academic Study 3 • Independent and Collaborative Study • Reading and Writing 3 • Speaking and Listening 3 	<ul style="list-style-type: none"> • Critical Reading, Writing and Reasoning for Higher Education • Independent and Collaborative Study <p>Plus 2 of these 4 modules:</p> <ul style="list-style-type: none"> • Digital Applications • Preparatory Mathematics • Preparatory Science • Preparatory Statistics

YOU'LL ALSO HAVE ADDITIONAL PERSONAL DEVELOPMENT ACTIVITIES.

EXTRA MODULES TO HELP YOU REACH UNIVERSITY: 3.5 AND 4-TERM COURSES

IF YOU'RE TAKING A 3.5 OR 4-TERM COURSE, YOU'LL STUDY ALL THE RELEVANT MODULES ABOVE, PLUS:

- **English for Academic Study 2**
- **Reading and Writing 2**
- **Speaking and Listening 2**
- **Study Skills Preparation**

YOU'LL ALSO HAVE ADDITIONAL PERSONAL DEVELOPMENT ACTIVITIES.

MODULE SUMMARIES – DETAILS OF WHAT YOU'LL STUDY

Biology

Gain an understanding of biological systems and organisms, as well as key laboratory processes.

Chemistry

Gain an understanding of chemical reactions, fundamental particles and the periodic table.

English for Academic Purposes

Develop your English to the level you need for university study, and to really get involved in academic discussions.

Entrepreneurship

Familiarise yourself with varied concepts of creativity, entrepreneurship and innovation, and how to apply them in business.

Extended Project

Learn how to plan, carry out and report an extended project; you can choose a project topic that matches your degree and career goals, and personal interests.

Information Technology

Discover the key concepts of computer science, including data representation and programming languages.

Intermediate Digital Applications

Develop skills in problem-solving and creative practice using a range of software packages appropriate to your field of study.

Intermediate Mathematics

Expand your knowledge of mathematical concepts including algebra, geometry, problem-solving, trigonometry and vectors.

Mathematics

Develop your mathematical skillset in areas such as algebra, decision maths, probabilities and statistics.

Physics

Gain an understanding of astrophysics, electromagnetism, mechanics and thermodynamics.

Statistics

Learn basic algebra, as well as the skills needed to analyse and apply statistics in a range of ways.

EXTRA MODULES FOR 2.5 AND 3-TERM COURSES

Critical Reading, Writing and Reasoning for Higher Education

Enhance your ability to read and understand complex ideas in English, and to compose convincing written arguments.

Digital Applications

Develop your digital skillset, helping you use digital tools to support academic study, including using and citing digital sources.

English for Academic Study 3

Expand your knowledge of English grammar and vocabulary to the level required for degree study.

Independent and Collaborative Study

Work individually and in teams on an academic task, and practise applying your subject knowledge and study skills.

Preparatory Mathematics

Develop your numeracy skills, including algebra, geometry and graphs.

Preparatory Science

Gain an introduction to core scientific knowledge, and subject-specific language required to study the sciences.

Preparatory Statistics

Build on your knowledge of using statistics, including the use of data to illustrate facts and support theories.

Reading and Writing 3

Develop your English reading and writing skills to a sufficient level to communicate complex ideas.

Speaking and Listening 3

Improve your ability to listen and speak in English, allowing you to fully engage with academic topics.

EXTRA MODULES FOR 3.5 AND 4-TERM COURSES

English for Academic Study 2

Improve your English grammar and vocabulary in order to communicate in an academic environment.

Reading and Writing 2

Develop your English reading and writing so that you can understand and articulate ideas and reasoning.

Speaking and Listening 2

Practise listening and speaking so that you are better prepared for academic debate and discussion.

Study Skills Preparation

Gain an introduction to the wide range of skills and strategies you'll need to succeed at university, such as research methods and using and citing sources.

PERSONAL DEVELOPMENT ACTIVITIES (ALL COURSE LENGTHS)

Digital and employability skills

Outside of your academic learning, you'll also be taught skills that will be useful at university and later in life. You will receive help in making the most of your creativity, improving your communication and developing your digital skills. We will also help you build a CV, portfolio and online profile to empower you after you graduate.

Social network

Forming a strong social network can be hugely beneficial, even if it's just to discuss and debate ideas. Not only will you get to know your classmates, you'll also have opportunities to join professional organisations, and network with students and industry professionals: something that can be really beneficial when you go on to start your career.

Culture and activities

We'll help you have a hugely beneficial cultural and social experience, and encourage you to explore different activities, sports, crafts and more. You might learn about local history and culture, or develop your wider subject knowledge and understanding of related industries.

Note: this information refers to courses that will run in the 2019-20 academic year, and is correct at the time of publication. Published October 2018.