Birmingham Foundation Academy Progression Requirements - Engineering & Physical Sciences

Upon successful completion of the Engineering & Physical Sciences Pathway of the Birmingham Foundation Academy Programme you will be guaranteed a place on one of the following degree programmes, subject to achieving the required year average and any other progression requirements listed below.

Unless otherwise stated, the undergraduate degrees listed below are 3 year programmes (you would therefore study for a total of 4 years including the Foundation Academy year).

It is possible to progress to the University's four-year undergraduate programmes, for example, the MEng/MSci (integrated Masters) or programmes with a year in industry or year abroad. In such cases Birmingham Foundation Academy students holding an offer for a 4-year programme will be able to apply for an extension of their studies in their final year.

Degree Programme	Award	Compulsory Modules	Progression Requirements	
			Overall Grade Average (%)	Other progression requirements
School of Civil Engineering				
Civil Engineering Civil Engineering with Business Management Civil and Energy Engineering	BEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves
Civil Engineering (4 year) Civil Engineering with Business Management (4 years) Civil and Energy Engineering (4 years) Civil Engineering with Industrial Experience (4 years)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves
School of Electronic, Electrical and Computer Engineering				
Electronic and Electrical Engineering Electrical and Energy Engineering Electronic Engineering with Business Management Electronic and Electrical Engineering with Industrial Year (4 years) Electrical and Energy Engineering with Industrial Year (4 years) Electronic Engineering with Business Management with Industrial Year (4 years) Computer Systems Engineering Computer Systems Engineering with Business Management	BEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics

Degree Programme	Award	Compulsory Modules	Progression Requirements	
			Overall Grade Average (%)	Other progression requirements
Electronic and Electrical Engineering (4 years) Electrical and Energy Engineering (4 years) Electronic Engineering with Business Management (4years) Computer Systems Engineering (4 years) Computer Systems Engineering with Business Management (4 years)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics
School of Mechanical Engineering				
Mechanical Engineering Mechanical Engineering (Automotive)	BEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 60% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves
Mechanical Engineering (4 year) Mechanical Engineering (Automotive) (4 year)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 60% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves
School of Metallurgy and Materials				
Materials Science and Energy Engineering Materials Science and Engineering with Business Management Materials Science and Technology Mechanical and Materials Engineering Metallurgy	BEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics
Materials Engineering (4 years) Materials Engineering with International Study (4 years) Materials Science and Energy Engineering (4 years) Materials Science and Engineering with Business Management (4 years) Mechanical and Materials Engineering (4 years) Nuclear Engineering (4 years)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics

Degree Programme	Award	Compulsory Modules	Progression Requirements	
			Overall Grade Average (%)	Other progression requirements
Sports and Materials Science Joint Honours Nuclear Science and Materials	BSc	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics
School of Computer Science				
Computer Science Artificial Intelligence and Computer Science Computer Science with Business Management	BSc	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Introductory Computer Science Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes
Computer Science (4 year) Computer Science and Software Engineering (4 year)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Introductory Computer Science Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes
School of Mathematics				
Mathematics Mathematics with Business Management	BSc	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 70% is required in Introductory Mathematics and Further Mathematics
Mathematics (4 years) Mathematics with Business Management (4years)	MSci	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 70% is required in Introductory Mathematics and Further Mathematics

Degree Programme	Award	Compulsory Modules	Progression Requirements	
			Overall Grade Average (%)	Other progression requirements
School of Physics and Astronomy				
Physics Physics and Astrophysics Physics with Particle Physics and Cosmology Nuclear Science and Materials	BSc	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least **60%** is required in Introductory Mathematics and Further Mathematics
Theoretical Physics Theoretical Physics and Applied Mathematics	BSc	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least **70%** is required in Introductory Mathematics and Further Mathematics
Physics (4 year) Physics and Astrophysics (4 year) Physics with Particle Physics and Cosmology (4 year) Nuclear Science and Materials (4 year)	MSci	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering"	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least **60%** is required in Introductory Mathematics and Further Mathematics
Theoretical Physics (4 year) Theoretical Physics and Applied Mathematics (4 year)	MSci	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering"	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least **70%** is required in Introductory Mathematics and Further Mathematics
Nuclear Engineering (4 year)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering"	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least **60%** is required in Introductory Mathematics and Further Mathematics

Degree Programme	Award	Compulsory Modules	Progression Requirements	
			Overall Grade Average (%)	Other progression requirements
School of Chemical Engineering				
Chemical Engineering Chemical Engineering with Industrial Study (4 year) Chemical and Energy Engineering Chemical and Energy Engineering with Industrial Study (4 years) Chemical Engineering with Business Management	BEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Introductory Organic Chemistry Mechanics & Waves Further Mathematics Physical Chemistry	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics
Chemical Engineering (4 years) Chemical and Energy Engineering (4 years) Chemical Engineering with Business Management (4 years)	MEng	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Introductory Organic Chemistry Mechanics & Waves Further Mathematics Physical Chemistry	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes A mark of at least 50% is required in Introductory Mathematics and Further Mathematics
School of Chemistry				
Chemistry Chemistry with Analytical Science Chemistry with Bioorganic Chemistry Chemistry with Business Management	BSc	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Introductory Chemistry The Periodic Table Introductory Organic Chemistry Organic Spectroscopy Physical Chemistry Practical Chemistry	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes
Chemistry (4 years) Chemistry with Analytical Science (4 years) Chemistry with Bioorganic Chemistry (4 years) Chemistry with Business Management (4 years)	MSci	English and Study Skills for Academic Purposes English and Study Skills for Specific Academic Purposes Introductory Mathematics Introductory Chemistry The Periodic Table Introductory Organic Chemistry Organic Spectroscopy Physical Chemistry Practical Chemistry	60	A mark of at least 50% is required in the English and Study Skills for Academic Purposes and English and Study Skills for Specific Academic Purposes

Birmingham Foundation Academy Modules

The full list of BFA modules is given below, please note that certain module combinations may not be possible due to timetabling restrictions.

Module Title	Credit Value
English and Study Skills for Academic Purposes	20
English and Study Skills for Specific Academic Purposes	20
The European Heritage	20
The Country and the City	20
Colonial Encounters	20
Digital Humanities	20
Politics, Policy and Protest	20
Social Policy, Welfare and Society	20
How to Learn, Earn and be Happy: An Introduction to Education	20
Business and the Market	20
Quantitative Methods for Business and Economics	20
Properties of Matter	10
Mechanics and Waves	20
Foundation Electronic and Electrical Engineering	20
Practical Chemistry	10
Introductory Mathematics	10
Introductory Chemistry	10
The Periodic Table	10
Introductory Organic Chemistry	10
Physical Chemistry	20
Organic Spectroscopy	10
Further Mathematics	20
Earth & Environmental Sciences	20
Biology	20
Human Biology	20
Advanced Study Skills in the Biological Sciences	20