

## 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.

\* Students who are proficient in English can opt to take two advanced English modules (Advanced Academic Skills 1 & 2 in place of Academic English and Study Skills 1 & 2).

Degree Programme	Modules	Progression Requirements
<b>School of Civil Engineering</b>  Civil Engineering BEng Civil Engineering with Business Management BEng Civil and Energy Engineering BEng Civil Engineering MEng (4 year) Civil Engineering with Business Management MEng (4 years) Civil and Energy Engineering MEng (4 years) Civil Engineering with Industrial Experience MEng (4 years)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 55% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves
<b>School of Electronic, Electrical and Computer Engineering</b>  Electronic and Electrical Engineering BEng Electrical and Energy Engineering BEng Electronic Engineering with Business Management BEng Electronic and Electrical Engineering with Industrial Year BEng (4 years) Electrical and Energy Engineering with Industrial Year BEng (4 years) Electronic Engineering with Business Management with Industrial Year BEng (4 years) Computer Systems Engineering BEng Computer Systems Engineering with Business Management BEng Electronic and Electrical Engineering MEng (4 years) Electrical and Energy Engineering MEng (4 years) Electronic Engineering with Business Management MEng (4years) Computer Systems Engineering MEng (4 years) Computer Systems Engineering with Business Management MEng (4 years)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 50% is required in Introductory Mathematics and Further Mathematics and at least 40% in Foundation Electronic & Electrical Engineering
<b>School of Mechanical Engineering</b>  Mechanical Engineering BEng Mechanical Engineering (Automotive) BEng Mechanical Engineering MEng (4 year) Mechanical Engineering (Automotive) MEng (4 year)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 60% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves

Degree Programme	Modules	Progression Requirements
<b>School of Metallurgy and Materials</b>  Materials Science and Energy Engineering BEng Materials Science and Engineering with Business Management BEng Materials Science and Technology BEng Mechanical and Materials Engineering BEng Metallurgy BEng Materials Engineering MEng (4 years) Materials Engineering with International Study MEng (4 years) Materials Science and Energy Engineering MEng (4 years) Materials Science and Engineering with Business Management MEngt (4 years) Mechanical and Materials Engineering MEng (4 years) Nuclear Engineering MEng (4 years) Sports and Materials Science BSc Joint Honours Nuclear Science and Materials BSc	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 60% is required in Introductory Mathematics and Further Mathematics
<b>School of Computer Science</b>  Computer Science BSc Artificial Intelligence and Computer Science BSc Computer Science with Business Management BSc Computer Science MSci (4 year) Computer Science and Software Engineering MSci (4 year)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Introductory Computer Science Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 70% is required in Introductory Computer Science and at least 50% in Introductory Mathematics and Further Mathematics
<b>School of Mathematics</b>  Mathematics BSc Mathematics with Business Management BSc Mathematics MSci(4 years) Mathematics with Business Management MSci(4years)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 80% is required in Introductory Mathematics and Further Mathematics

Degree Programme	Modules	Progression Requirements
<b>School of Physics and Astronomy</b>		
Physics BSc Physics and Astrophysics BSc Physics with Particle Physics and Cosmology BSc Nuclear Science and Materials BSc Physics MSci (4 year) Physics and Astrophysics MSci (4 year) Physics with Particle Physics and Cosmology MSci (4 year) Nuclear Science and Materials MSci (4 year) Nuclear Engineering MEng (4 year)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 60% is required in Introductory Mathematics and Further Mathematics
Theoretical Physics BSc Theoretical Physics and Applied Mathematics BSc Theoretical Physics MSci (4 year) Theoretical Physics and Applied Mathematics MSci (4 year)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 70% is required in Introductory Mathematics and Further Mathematics
<b>School of Chemical Engineering</b>		
Chemical Engineering BEng Chemical Engineering with Industrial Study BEng (4 year) Chemical and Energy Engineering BEng Chemical and Energy Engineering with Industrial Study BEng (4 years) Chemical Engineering with Business Management BEng Chemical Engineering MEng (4 years) Chemical and Energy Engineering MEng (4 years) Chemical Engineering with Business Management MEng (4 years)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Introductory Organic Chemistry Mechanics & Waves Further Mathematics Physical Chemistry	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2* A mark of at least 60% is required in Introductory Mathematics and Further Mathematics and at least 40% in Introductory Organic Chemistry, Mechanics & Waves and Physical Chemistry
<b>School of Chemistry</b>		
Chemistry BSc Chemistry with Analytical Science BSc Chemistry with Bioorganic Chemistry BSc Chemistry with Business Management BSc Chemistry MSci (4 years) Chemistry with Analytical Science MSci (4 years) Chemistry with Bioorganic Chemistry MSci (4 years) Chemistry with Business Management MSci (4 years)	Academic English and Study Skills 1* Academic English and Study Skills 2* Introductory Mathematics Introductory Chemistry The Periodic Table Introductory Organic Chemistry Organic Spectroscopy Physical Chemistry Practical Chemistry	An overall average of 55% and A mark of at least 55% is required in the Academic English and Study Skills 1* and Academic English and Study Skills 2*