

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.

* You will be assigned an appropriate English module once you have started the course. ^ All students need to obtain at least 100 out of 120 credits

PLEASE NOTE THAT THE TABLE INDICATES THE PROGRESSION REQUIREMENTS FOR STUDENT COMPLETING THE BFA IN 2015 AND IS SUBJECT TO MODIFICATION

Degree Programme	Modules	Progression Requirements
School of Civil Engineering		
Civil Engineering BEng Civil Engineering with Business Management BEng Civil and Energy Engineering BEng Civil and Railway Engineering BEng Civil Engineering MEng (4 year) Civil Engineering with Business Management MEng (4 years) Civil and Railway Engineering MEng (4 years) Civil and Energy Engineering MEng (4 years) Civil Engineering with Industrial Experience MEng (4 years)	Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and A mark of at least 55% is required in Introductory Mathematics, Further Mathematics, and Mechanics and Waves
School of Electronic, Electrical and Systems Engineering		
Electronic and Electrical Engineering BEng Electronic and Electrical Engineering MEng (4 year) Electronic and Electrical Engineering with Industrial Year BEng (4 year) Electrical and Energy Engineering BEng Electrical and Energy Engineering MEng (4 year) Electrical and Energy Engineering with Industrial Year BEng Electrical and Railway Engineering BEng Electrical and Railway Engineering MEng (4 year) Electronic Engineering with Business Management BEng Electronic Engineering with Business Management MEng (4 year) Electronic Engineering with Business Management with Industrial Year BEng Computer Systems Engineering BEng Computer Systems Engineering MEng (4 year) Computer Systems Engineering with Industrial Year BEng Computer Systems Engineering with Business Management BEng Computer Systems Engineering with Business Management MEng (4 year) Computer Systems Engineering with Business Management with Industrial Year BEng	Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and A mark of at least 50% is required in Introductory Mathematics and Further Mathematics and at least 40% in Foundation Electronic & Electrical Engineering

Degree Programme	Modules	Progression Requirements
School of Mechanical Engineering		
Mechanical Engineering BEng Mechanical Engineering (Automotive) BEng Mechanical Engineering MEng (4 year) Mechanical Engineering (Automotive) MEng (4 year)	Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and 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 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 Industrial Experience MEng (4 years) Materials Science and Energy Engineering MEng (4 years) Materials Science and Engineering with Business Management MEng (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	Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and A mark of at least 60% is required in Introductory Mathematics and Further Mathematics
School of Computer Science		
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 MEng (4 year)	Introductory Mathematics Properties of Matter Introductory Computer Science Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and A mark of at least 70% is required in Introductory Computer Science and at least 50% in Introductory Mathematics and Further Mathematics

Degree Programme	Modules	Progression Requirements
School of Mathematics		
Mathematics BSc Mathematics with Business Management BSc Mathematics MSci(4 years) Mathematics with Business Management MSci(4years)	Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and A mark of at least 80% is required in Introductory Mathematics and Further Mathematics
School of Physics and Astronomy		
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 BSc Nuclear Engineering MEng (4 year)	Introductory Mathematics Properties of Matter Mechanics & Waves Further Mathematics Foundation Electronic & Electrical Engineering Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and 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)	or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and A mark of at least 70% is required in Introductory Mathematics and Further Mathematics
School of Chemical Engineering		
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)	Introductory Mathematics Introductory Organic Chemistry Mechanics & Waves Further Mathematics Physical Chemistry Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken and 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

Degree Programme	Modules	Progression Requirements
School of Chemistry		
Chemistry BSc Chemistry with Business Management BSc Chemistry MSci (4 years) Chemistry with Industrial Experience MSci (4 year) Chemistry with Business Management MSci (4 years) Chemistry with Pharmacology BSc Chemistry with Pharmacology MSci	Introductory Mathematics Introductory Chemistry The Periodic Table Introductory Organic Chemistry Organic Spectroscopy Physical Chemistry Practical Chemistry Plus Academic English and Study Skills* or Advanced Academic English and Study Skills* or Advanced Academic Skills* plus 20-credits of optional modules	An overall average of 55% and A mark of at least 55% in the Academic English and Skills module taken