Foundation Progression Requirements (2019-12) - Engineering & Physical Sciences (Updated March 2019)

These requirements apply to students completing the foundation pathway in the academic year 2019-20. Upon successful completion of the Engineering & Physical Sciences Pathway you will be guaranteed a place on one of the following degree programmes, subject to meeting the 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 year). It is possible to progress to one of our four-year undergraduate programmes, for example, an MEng or MSci. Students wishing to progress to a 4-year UG programme would transfer at the end of the foundation year or during their UG degree and will need to apply for an extension of their studies.

* You will be assigned an appropriate English module once you have started the course and you will need to gain the listed mark in this module to progress.
^Your average is based on all modules taken and weighted according to the credit value of the module.

School of Engineering	Modules	Progression Requirements^
Engineering BEng Civil Engineering BEng Civil and Railway Engineering BEng Electronic and Electrical Engineering BEng Electrical and Railway Engineering BEng Mechanical Engineering BEng Mechanical Engineering (Automotive) BEng Mechatronic and Robotic Engineering BEng *4-year programmes including MEng degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see:* *http://www.birmingham.ac.uk/schools/civil-engineering/undergraduate/index.aspx* *http://www.birmingham.ac.uk/schools/eese/undergraduate/index.aspx* *http://www.birmingham.ac.uk/schools/mechanical-engineering/undergraduate/index.aspx*	Introductory Mathematics (10) Properties of Matter (10) Mechanics & Waves (20) Further Mathematics (20) Foundation Electronic & Electrical Engineering (20) **Plus** Academic English and Study Skills (40)* **or** Advanced Academic English and Study Skills (40)* **or** Advanced Academic Skills for Foundation Sciences and Engineering (40)*	At least **100** credits **and** at least: **55%** in Academic English and Study Skills* **60%** in Introductory Mathematics **60%** in Further Mathematics

<table>
<tr><th>School of Metallurgy and Materials</th><th>Modules</th><th>Progression Requirements^</th></tr>
<tr><td>Materials Science and Engineering BEng
Mechanical and Materials Engineering BEng
Aerospace Engineering BEng
Metallurgy BEng

4-year programmes including MEng degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see: http://www.birmingham.ac.uk/schools/metallurgy-materials/undergraduate-courses/index.aspx</td><td rowspan="3">Introductory Mathematics (10)
Properties of Matter (10)
Mechanics & Waves (20)
Further Mathematics (20)
Foundation Electronic & Electrical Engineering (20)
Plus
Academic English and Study Skills (40)*
or
Advanced Academic English and Study Skills (40)*
or
Advanced Academic Skills for Foundation Sciences and Engineering (40)*</td><td>At least 100 credits

and at least:
55% in Academic English and Study Skills*
60% in Introductory Mathematics
60% in Further Mathematics
40% in Properties of Matter</td></tr>
<tr><td>Nuclear Engineering MEng (4 years)

Note: this is a four-year programme for which students require an ATAS certificate, students would normally register for the 1-year foundation programme and then transfer to the MEng degree. For information about the ATAS certificate see: http://www.birmingham.ac.uk/International/students/visas/atas.aspx</td><td>At least 100 credits
and at least:
55% in Academic English and Study Skills*
60% in Introductory Mathematics
60% in Further Mathematics
40% in Mechanics and Waves</td></tr>
<tr><td>Nuclear Science and Materials

Note: currently we cannot confirm whether this will be a BSc or BEng degree programme.</td></tr>
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School of Mathematics	Modules	Progression Requirements^
Mathematics BSc Mathematics with Business Management BSc *4-year programmes including MSci degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see:* *http://www.birmingham.ac.uk/schools/mathematics/undergraduate/index.aspx*	Introductory Mathematics (10) Properties of Matter (10) Mechanics & Waves (20) Further Mathematics (20) Foundation Electronic & Electrical Engineering (20) **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills for Foundation Sciences and Engineering (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **70%** in Introductory Mathematics **70%** in Further Mathematics **40%** in Mechanics and Waves
School of Physics and Astronomy	**Modules**	**Progression Requirements^**
Physics BSc Physics and Astrophysics BSc Physics with Particle Physics and Cosmology BSc *4-year programmes including MSci degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see:* *http://www.birmingham.ac.uk/schools/physics/undergraduate/index.aspx* *Theoretical Physics BSc & Theoretical Physics and Applied Mathematics BSc programmes are available. You would normally transfer to these programmes at the end of the 1st year of the undergraduate BSc Physics programme, subject to academic performance.*	Introductory Mathematics (10) Properties of Matter (10) Mechanics & Waves (20) Further Mathematics (20) Foundation Electronic & Electrical Engineering (20) **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills for Foundation Sciences and Engineering (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **60%** in Introductory Mathematics **60%** in Further Mathematics **40%** in Mechanics and Waves

School of Computer Science	Modules	Progression Requirements^
Computer Science BSc Artificial Intelligence and Computer Science BSc Computer Science and Software Engineering MEng (4 year) Mathematics and Computer Science BSc *4-year programmes including MSci degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see:* *http://www.cs.bham.ac.uk/admissions/undergraduate/*	Introductory Mathematics (10) Properties of Matter (10) Introductory Computer Science (20) Further Mathematics (20) Foundation Electronic & Electrical Engineering (20) **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills for Foundation Sciences and Engineering (40)*****	At least 100 credits **and** at least: **55%** in Academic English and Study Skills***** **50%** in Introductory Computer Science **60%** in Introductory Mathematics **60%** in Further Mathematics
School of Chemical Engineering	**Modules**	**Progression Requirements^**
Chemical Engineering BEng *4-year programmes including MEng degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see:* *http://www.birmingham.ac.uk/schools/chemical-engineering/undergraduate/degree-courses.aspx*	Introductory Mathematics (10) Introductory Organic Chemistry (10) Mechanics & Waves (20) Further Mathematics (20) Properties of Matter (10) Elementary Computer Programming (10) **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills for Foundation Sciences and Engineering (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **60%** in Introductory Mathematics **60%** in Further Mathematics **60%** in Introductory Organic Chemistry **40%** in Mechanics and Waves **60%** in Properties of Matter **40%** in Elementary Computer Programming

School of Chemistry	Modules	Progression Requirements^
Chemistry BSc Chemistry with Business Management BSc Chemistry with Pharmacology BSc *4-year programmes including MSci degrees are available, you would normally transfer to these programmes during your undergraduate study, subject to academic performance, see: http://www.birmingham.ac.uk/schools/chemistry/undergraduate/undergraduate-degree-courses.aspx*	Introductory Mathematics (10) Introductory Chemistry (10) Properties of Matter (10) Introductory Organic Chemistry (10) Elementary Computer Programming (10) Mechanics and Waves (20) Case Studies in Chemistry **or** Science and Engineering Laboratories (10)# **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills for Foundation Sciences and Engineering (40)*****	At least 100 credits **and** an overall weighted average of **55%** **and** a mark of at least **55%** in Academic English and Study Skills*

Chemistry students taking "Advanced Academic Skills for Foundation Sciences and Engineering" will take Science and Engineering Laboratories, all other chemistry students will take Case Studies in Chemistry