Foundation Progression Requirements (2020-2021) - Engineering & Physical Sciences

These requirements apply to students completing the foundation pathway in the academic year 2020-2021. 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*	Mathematics I (10) Mathematics II (10) Calculus (10) Materials (10) Mechanics (10) Science and Engineering Laboratories (10) Group Project (10) *plus one optional 10 credit module* **Plus** Academic English and Study Skills (40)* **or** Advanced Academic English and Study Skills (40)* **or** Advanced Academic Skills (STEM) (40)*	At least **100** credits **and** at least: **55%** in Academic English and Study Skills* **60%** in Mathematics I **60%** in Mathematics II **60%** in Calculus

<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

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">Mathematics I (10)
Mathematics II (10)
Calculus (10)
Materials (10)
Mechanics (10)
Science and Engineering Laboratories (10)
Group Project (10)
plus one optional 10 credit module

Plus
Academic English and Study Skills (40)*
or
Advanced Academic English and Study Skills (40)*
or
Advanced Academic Skills (STEM) (40)*</td><td>At least 100 credits

and at least:
55% in Academic English and Study Skills*
60% in Mathematics I
60% in Mathematics II
60% in Calculus
40% in Materials</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 Mathematics I
60% in Mathematics II
60% in Calculus
40% in Materials
40% in Mechanics
40% in 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>
</table>

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*	Mathematics I (10) Mathematics II (10) Calculus (10) Materials (10) Mechanics (10) Science and Engineering Laboratories (10) Group Project (10) *plus one optional 10 credit module* **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills (STEM) (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **70%** in Mathematics I **70%** in Mathematics II **70%** in Calculus **50%** in Mechanics

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.*	Mathematics I (10) Mathematics II (10) Calculus (10) Materials (10) Mechanics (10) Waves (10) Science and Engineering Laboratories (10) Group Project (10) **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills (STEM) (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **60%** in Mathematics I **60%** in Mathematics II **60%** in Calculus **40%** in Mechanics **40%** in 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/*	Mathematics I (10) Mathematics II (10) Calculus (10) Introductory Computer Science (10) Materials (10) Mechanics (10) Science and Engineering Laboratories (10) Group Project (10) **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills (STEM) (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **60%** in Mathematics I **60%** in Mathematics II **60%** in Calculus **50%** in Introductory Computer Science

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*	Mathematics I (10) Mathematics II (10) Calculus (10) Organic Chemistry (10) Materials (10) Mechanics (10) Science and Engineering Laboratories (10) *plus one optional 10 credit module* **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills (STEM) (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **60%** in Mathematics I **60%** in Mathematics II **60%** in Calculus **60%** in Materials **60%** in Organic Chemistry

School of Chemistry	Modules	Progression Requirements^
Chemistry BSc Chemistry 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/chemistry/undergraduate/undergraduate-degree-courses.aspx*	Mathematics I (10) Organic Chemistry (10) Inorganic Chemistry (10) Materials (10) Mechanics (10) Science and Engineering Laboratories (10) *plus two optional 10 credit modules* **Plus** Academic English and Study Skills (40)***** **or** Advanced Academic English and Study Skills (40)***** **or** Advanced Academic Skills (STEM) (40)*****	At least **100** credits **and** at least: **55%** in Academic English and Study Skills***** **60%** in Materials **60%** in Organic Chemistry **60%** in Inorganic Chemistry