

## University of Birmingham Foundation Progression Requirements - Engineering & Physical Sciences

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.

Degree Programme	Modules	Progression Requirements
<b>School of Engineering</b>		
<p>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</p> <p>4 year programmes including MEng degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic performance, see:  <a href="http://www.birmingham.ac.uk/schools/civil-engineering/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/civil-engineering/undergraduate/index.aspx</a>  <a href="http://www.birmingham.ac.uk/schools/eese/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/eese/undergraduate/index.aspx</a>  <a href="http://www.birmingham.ac.uk/schools/mechanical-engineering/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/mechanical-engineering/undergraduate/index.aspx</a></p>	<p>Introductory Mathematics (10) Properties of Matter (10) Mechanics &amp; Waves (20) Further Mathematics (20) Foundation Electronic &amp; Electrical Engineering (20) <b>Plus</b> Academic English and Study Skills (40)* <b>or</b> Advanced Academic English and Study Skills (40)* <b>or</b> Advanced Academic Skills for Foundation Sciences and Engineering (40)*</p>	<p>At least <b>100</b> credits</p> <p><b>and</b> at least:  <b>55%</b> in Academic English and Study Skills*  <b>60%</b> in Introductory Mathematics  <b>60%</b> in Further Mathematics</p>
<b>School of Computer Science</b>		
<p>Computer Science BSc Artificial Intelligence and Computer Science BSc Computer Science with Business Management BSc Computer Science and Software Engineering MEng (4 year)</p> <p>4 year programmes including MSci degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic performance, see:  <a href="http://www.cs.bham.ac.uk/admissions/undergraduate/">http://www.cs.bham.ac.uk/admissions/undergraduate/</a></p>	<p>Introductory Mathematics (10) Properties of Matter (10) Introductory Computer Science (20) Further Mathematics (20) Foundation Electronic &amp; Electrical Engineering (20) <b>Plus</b> Academic English and Study Skills (40)* <b>or</b> Advanced Academic English and Study Skills (40)* <b>or</b> Advanced Academic Skills for Foundation Sciences and Engineering (40)*</p>	<p>At least 100 credits</p> <p><b>and</b> at least:  <b>55%</b> in Academic English and Study Skills*  <b>60%</b> in Introductory Computer Science  <b>60%</b> in Introductory Mathematics  <b>50%</b> in Further Mathematics</p>

## 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

4 year programmes including MEng degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic performance, see:  
<http://www.birmingham.ac.uk/schools/metallurgy-materials/undergraduate-courses/index.aspx>

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>

Nuclear Science and Materials BSc

Sports and Materials Science BSc

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 Properties of Matter

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

At least **100** credits

**and** at least:  
**55%** in Academic English and Study Skills\*  
**50%** in Introductory Mathematics  
**50%** in Further Mathematics  
**40%** in Properties of Matter

## School of Mathematics

Mathematics BSc

Mathematics with Business Management BSc

4 year programmes including MSci degrees are available, you would normally transfer to these programme 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

Physics BSc

Physics and Astrophysics BSc

Physics with Particle Physics and Cosmology BSc

Nuclear Science and Materials BSc

4 year programmes including MSci degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic performance, see:

<http://www.birmingham.ac.uk/schools/physics/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  
**40%** in Mechanics and Waves

Theoretical Physics BSc

Theoretical Physics and Applied Mathematics BSc

4 year programmes including MSci degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic performance, see:

<http://www.birmingham.ac.uk/schools/physics/undergraduate/index.aspx>

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

## Degree Programme

## Modules

## Progression Requirements

## School of Chemical Engineering

## Chemical Engineering BEng

4 year programmes including MEng degrees are available, you would normally transfer to these programme 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)  
Physical Chemistry (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 Introductory Organic Chemistry  
**40%** in Mechanics and Waves  
**40%** in Physical Chemistry

## School of Chemistry

## 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 programme 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)  
The Periodic Table (10)  
Introductory Organic Chemistry (10)  
Organic Spectroscopy (10)  
Physical Chemistry (20)  
Practical Chemistry (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\*