### 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.

<table>
<thead>
<tr>
<th>School of Engineering</th>
<th>Modules</th>
<th>Progression Requirements</th>
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<tbody>
<tr>
<td>Civil Engineering BEng</td>
<td>Introductory Mathematics (10) Properties of Matter (10) Mechanics &amp; Waves (20) Further Mathematics (20) Foundation Electronic &amp; Electrical Engineering (20) <strong>Plus</strong> 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</td>
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<tr>
<td>Civil and Railway Engineering BEng</td>
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<tr>
<td>Electronic and Electrical Engineering BEng</td>
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<tr>
<td>Electrical and Railway Engineering BEng</td>
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<tr>
<td>Mechanical Engineering BEng</td>
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<tr>
<td>Mechanical Engineering (Automotive) BEng</td>
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</tbody>
</table>

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

- [http://www.birmingham.ac.uk/schools/civil-engineering/undergraduate/index.aspx](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/eese/undergraduate/index.aspx)
- [http://www.birmingham.ac.uk/schools/mechanical-engineering/undergraduate/index.aspx](http://www.birmingham.ac.uk/schools/mechanical-engineering/undergraduate/index.aspx)

<table>
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<tr>
<th>School of Computer Science</th>
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<th>Progression Requirements</th>
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<tbody>
<tr>
<td>Computer Science BSc</td>
<td>Introductory Mathematics (10) Properties of Matter (10) Introductory Computer Science (20) Further Mathematics (20) Foundation Electronic &amp; Electrical Engineering (20) <strong>Plus</strong> 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 Computer Science 60% in Introductory Mathematics 50% in Further Mathematics</td>
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<tr>
<td>Artificial Intelligence and Computer Science BSc</td>
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<tr>
<td>Computer Science with Business Management BSc</td>
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<tr>
<td>Computer Science and Software Engineering MEng (4 year)</td>
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</tbody>
</table>

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

- [http://www.cs.bham.ac.uk/admissions/undergraduate/](http://www.cs.bham.ac.uk/admissions/undergraduate/)
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<tr>
<th>School of Metallurgy and Materials</th>
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<tbody>
<tr>
<td>Materials Science and Technology BEng</td>
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<tr>
<td>Mechanical and Materials Engineering BEng</td>
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<tr>
<td>Metallurgy BEng</td>
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<tr>
<td>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/metallurgy-materials/undergraduate-courses/index.aspx">http://www.birmingham.ac.uk/schools/metallurgy-materials/undergraduate-courses/index.aspx</a></td>
<td>Introductory Mathematics (10)</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>
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<tr>
<td>Nuclear Engineering MEng (4 years)</td>
<td>Properties of Matter (10)</td>
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<tr>
<td>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: <a href="http://www.birmingham.ac.uk/International/students/visas/atas.aspx">http://www.birmingham.ac.uk/International/students/visas/atas.aspx</a></td>
<td>Mechanics &amp; Waves (20)</td>
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<td>Further Mathematics (20)</td>
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<td>Foundation Electronic &amp; Electrical Engineering (20)</td>
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<td>Advanced Academic Skills for Foundation Sciences and Engineering (40)*</td>
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<td>Nuclear Science and Materials BSc</td>
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<tr>
<td>School of Mathematics</td>
<td>Introductory Mathematics (10)</td>
<td>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</td>
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<tr>
<td>Mathematics BSc</td>
<td>Properties of Matter (10)</td>
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<tr>
<td>Mathematics with Business Management BSc</td>
<td>Mechanics &amp; Waves (20)</td>
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<tr>
<td>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.birmingham.ac.uk/schools/mathematics/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/mathematics/undergraduate/index.aspx</a></td>
<td>Further Mathematics (20)</td>
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<td>Foundation Electronic &amp; Electrical Engineering (20)</td>
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<td>Advanced Academic Skills for Foundation Sciences and Engineering (40)*</td>
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## School of Physics and Astronomy

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<tr>
<th>Degree Programme</th>
<th>Modules</th>
<th>Progression Requirements</th>
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</thead>
<tbody>
<tr>
<td>Physics BSc</td>
<td>Introductory Mathematics (10) Properties of Matter (10) Mechanics &amp; Waves (20) Further Mathematics (20) Foundation Electronic &amp; Electrical Engineering (20) <strong>Plus</strong> 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 Mechanics and Waves</td>
</tr>
<tr>
<td>Physics and Astrophysics BSc</td>
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<tr>
<td>Physics with Particle Physics and Cosmology BSc</td>
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<tr>
<td>Nuclear Science and Materials BSc</td>
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</tbody>
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4 year programmes including MSci degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic perfomance, see: http://www.birmingham.ac.uk/schools/physics/undergraduate/index.aspx

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Theoretical Physics BSc & Theoretical Physics and Applied Mathematics BSc programmes are available. You would normally transfer to these programme at the end of the 1st year of the undergraduate BSc Physics programme, subject to academic perfomance.

## School of Chemical Engineering

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<thead>
<tr>
<th>Degree Programme</th>
<th>Modules</th>
<th>Progression Requirements</th>
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<tbody>
<tr>
<td>Chemical Engineering BEng</td>
<td>Introductory Mathematics (10) Introductory Organic Chemistry (10) Mechanics &amp; Waves (20) Further Mathematics (20) Physical Chemistry (20) <strong>Plus</strong> 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 Introductory Organic Chemistry 40% in Mechanics and Waves 40% in Physical Chemistry</td>
</tr>
</tbody>
</table>

4 year programmes including MEng degrees are available, you would normally transfer to these programme during your undergraduate study, subject to academic perfomance, see: http://www.birmingham.ac.uk/schools/chemical-engineering/undergraduate/degree-courses.aspx
<table>
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<tr>
<th>School of Chemistry</th>
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<tr>
<td><strong>Degree Programme</strong></td>
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<tr>
<td>Chemistry BSc</td>
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<td>Chemistry with Business Management BSc</td>
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<tr>
<td>Chemistry with Pharmacology BSc</td>
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<tr>
<td>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.birmingham.ac.uk/schools/chemistry/undergraduate/undergraduate-degree-courses.aspx">http://www.birmingham.ac.uk/schools/chemistry/undergraduate/undergraduate-degree-courses.aspx</a></td>
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