

# 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)</p> <p><b>Plus</b></p> <p>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 at least:</b>  <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)</p> <p><b>Plus</b></p> <p>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 at least:</b>  <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>

Degree Programme	Modules	Progression Requirements
<b>School of Metallurgy and Materials</b>		
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: <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>		At least <b>100</b> credits  <b>and at least:</b> <b>55%</b> in Academic English and Study Skills* <b>60%</b> in Introductory Mathematics <b>60%</b> in Further Mathematics <b>40%</b> in Properties of Matter
Nuclear Engineering MEng (4 years)  <b>Note:</b> 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>	Introductory Mathematics (10) Properties of Matter (10) Mechanics & Waves (20) Further Mathematics (20) Foundation Electronic & 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)*	At least <b>100</b> credits  <b>and at least:</b> <b>55%</b> in Academic English and Study Skills* <b>60%</b> in Introductory Mathematics <b>60%</b> in Further Mathematics <b>40%</b> in Mechanics and Waves
Nuclear Science and Materials BSc		
Sports and Materials Science BSc		At least <b>100</b> credits  <b>and at least:</b> <b>55%</b> in Academic English and Study Skills* <b>50%</b> in Introductory Mathematics <b>50%</b> in Further Mathematics <b>40%</b> in Properties of Matter

Degree Programme	Modules	Progression Requirements
<b>School of Mathematics</b> <p>Mathematics BSc Mathematics with Business Management BSc</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.birmingham.ac.uk/schools/mathematics/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/mathematics/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)</p> <p><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: 55% in Academic English and Study Skills* 70% in Introductory Mathematics 70% in Further Mathematics 40% in Mechanics and Waves</p>
<b>School of Physics and Astronomy</b> <p>Physics BSc Physics and Astrophysics BSc Physics with Particle Physics and Cosmology BSc Nuclear Science and Materials BSc</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.birmingham.ac.uk/schools/physics/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/physics/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)</p> <p><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: 55% in Academic English and Study Skills* 60% in Introductory Mathematics 60% in Further Mathematics 40% in Mechanics and Waves</p>
<p>Theoretical Physics BSc Theoretical Physics and Applied Mathematics BSc</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.birmingham.ac.uk/schools/physics/undergraduate/index.aspx">http://www.birmingham.ac.uk/schools/physics/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)</p> <p><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: 55% in Academic English and Study Skills* 70% in Introductory Mathematics 70% in Further Mathematics 40% in Mechanics and Waves</p>

Degree Programme	Modules	Progression Requirements
<p><b>School of Chemical Engineering</b></p> <p>Chemical Engineering 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/chemical-engineering/undergraduate/degree-courses.aspx">http://www.birmingham.ac.uk/schools/chemical-engineering/undergraduate/degree-courses.aspx</a></p>	<p>Introductory Mathematics (10)          Introductory Organic Chemistry (10)          Mechanics &amp; Waves (20)          Further Mathematics (20)          Physical Chemistry (20)</p> <p><b>Plus</b></p> <p>Academic English and Study Skills (40)*</p> <p><b>or</b></p> <p>Advanced Academic English and Study Skills (40)*</p> <p><b>or</b></p> <p>Advanced Academic Skills for Foundation Sciences and Engineering (40)*</p>	<p>At least <b>100</b> credits</p> <p><b>and</b> at least:</p> <p><b>55%</b> in Academic English and Study Skills*</p> <p><b>60%</b> in Introductory Mathematics</p> <p><b>60%</b> in Further Mathematics</p> <p><b>40%</b> in Introductory Organic Chemistry</p> <p><b>40%</b> in Mechanics and Waves</p> <p><b>40%</b> in Physical Chemistry</p>
<p><b>School of Chemistry</b></p> <p>Chemistry BSc          Chemistry with Business Management BSc          Chemistry with Pharmacology BSc</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.birmingham.ac.uk/schools/chemistry/undergraduate/undergraduate-degree-courses.aspx">http://www.birmingham.ac.uk/schools/chemistry/undergraduate/undergraduate-degree-courses.aspx</a></p>	<p>Introductory Mathematics (10)          Introductory Chemistry (10)          The Periodic Table (10)          Introductory Organic Chemistry (10)          Organic Spectroscopy (10)          Physical Chemistry (20)          Practical Chemistry (10)</p> <p><b>Plus</b></p> <p>Academic English and Study Skills (40)*</p> <p><b>or</b></p> <p>Advanced Academic English and Study Skills (40)*</p> <p><b>or</b></p> <p>Advanced Academic Skills for Foundation Sciences and Engineering (40)*</p>	<p>At least 100 credits</p> <p><b>and</b> an overall weighted average of <b>55%</b></p> <p><b>and</b> a mark of at least <b>55%</b> in Academic English and Study Skills*</p>