Integrated Sciences
An interdisciplinary approach to science degrees for the 21st century

www.integratedsciences.org.uk
University of Leicester

We are a leading UK University with a world-class reputation in research (13 departments gaining the top 5 or 5* ratings in the Research Assessment Exercise.) The National Student Survey ranked Leicester joint first for teaching quality and overall satisfaction for two successive years. We also have three prestigious national Centres for Excellence in Teaching and Learning.

We aim to address the major challenges facing science in the 21st century. Areas such as climate change, sustainable development and biodiversity will require policy makers, managers, educators and researchers, who can work effectively across different disciplines. The specially written modules that make up Leicester's pioneering degree cover the key concepts from physics, chemistry, biology and earth sciences. The course addresses the central issues of science in society today through real-world interdisciplinary problems. You will look at fundamental ideas and topics of current interest in the individual sciences. The programme offers dedicated support for mathematics, computing and professional skills and includes a large component of continuous assessment. Alongside core modules your options include: management, mathematical modelling, science communication, experimental specialisation, work in schools and vacation work experience.

Entry requirements: three A-level (or equivalent) at BCC in any subjects with at least grade B in a science subject for the BSc, and ABB with at least one science grade A for the MSci.

http://www.le.ac.uk/i-science

University of Surrey

We are located on a landscaped campus on the outskirts of Guildford. All key facilities are within a few minutes’ walk. The physics department was rated 5 on the last RAE (and within the top 10 on the Guardian league table). The School of Biomedical and Molecular Sciences (housing both chemistry and biology disciplines) is rated 5*.

We live in a technological age which is becoming broader and evermore interdisciplinary; skills are required at the cutting edge of science and technology. Employers today look for graduates equipped with the skills for a wide variety of exciting science-based careers. We are proud to host the brand new integrated sciences degree. Students will have the opportunity to take a broad range of modules in physics, chemistry and biology, from genetics to astrophysics. Our modern, relevant, flexible and exciting degree offers breadth with depth, superb experimental facilities and outstanding graduate employment prospects.

Module options such as Atoms Molecules and Quanta, Medical Imaging and Soft Solids highlight the interdisciplinary nature of the course. Key skills in mathematics, data handling and computational methods provide the tools necessary for a range of modules across the disciplines. Throughout the degree, laboratory sessions in all of the three science disciplines will allow you to have a truly integrated degree programme.

Entry requirements for the I-Sciences degree at Surrey are BBB (to include at least one science A-level and maths to at least AS-level).

http://www.isciences.surrey.ac.uk/welcome
London South Bank University

We are a teaching-led and research active university with excellent industrial links (with over 100 researchers and an RAE score of 4), in the centre of London. The rich ethnic, cultural and age mix of our 22 000 students is something we are justly proud of. Our catchphrase “Become what you want to be” is marked by our graduates ranking seventh in the UK for starting salaries and 90% find jobs within six months of graduating.

The degree is hosted within the faculty of Engineering, Science & the Built Environment, which has a wide range of teaching and research, all of which depends on scientific thinking and skills to design systems and solve problems in the real world of industrial and commercial applications. Real applications traverse the boundaries of traditional science disciplines, so our degree is all about working ‘outside the box’; bringing together fundamental scientific, technological and engineering principles to crack multi-dimensional problems.

The programme uses project work, problem-based learning and case studies to teach physical, chemical and biological fundamentals and applications in an interdisciplinary way. Modules include subjects such as medical applications, forensics, communications and networks, modern materials technology, energy and sustainability. A special feature of our degree is the “Extended” or Foundation Year, for applicants (often mature students) who meet the general requirements to start a degree, but who do not have traditional A-levels. This allows us to fill any gaps giving students a flying start onto the normal program.

http://prospectus.lsbu.ac.uk/courses/course.php?CourseID=1742

University of East Anglia

UEA is an internationally renowned university based in a 320 acre campus near Norwich that provides top quality academic, social and cultural facilities to over 13 000 students. Ranked amongst the top three for student satisfaction according to the National Student Survey and in the top 20 in the UK by the Sunday Times university guide.

The BSc Natural Sciences Integrated Sciences pathway at UEA presents a way of linking several science disciplines; thus enriching and broadening the study of science. Our stimulating research-led teaching programme ensures you will be taught at the cutting-edge, have the opportunity to undertake some original interdisciplinary research and develop excellent practical skills through laboratory work, workshops and fieldwork. Our approach to physics is innovative and designed for the challenges of the 21st century, such as climate change and nanotechnology.

Our degree allows you to study a combination of physics, chemistry and mathematics, even if you have not already studied these subjects to a high level. You will also have the opportunity to study units of your choice across the faculty, according to your own interests and aspirations. The standard offer is currently ABB at A-level for the BSc Honours degree with a four-year option spending a year abroad at a university in North America, Australasia or Europe, or working in industry in the UK. These four-year variants have a standard A-level offer of AAA.

http://www.uea.ac.uk/sci/natsci/integrated.htm
Are you naturally inquisitive?

Do you want to explore the cutting edge of science and technology?

Do you have an interest in the sciences but don’t think you have the right mix of A-levels for study at degree level?

Or maybe you’re looking for a degree that will allow you to be more attractive to potential employers when you graduate?

If the answer to these questions is yes and you’re looking for a high quality degree with breadth and depth which is endorsed by industry, then Integrated Sciences is the degree for you.

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“Our modern, relevant, flexible and exciting degree offers breadth with depth, superb experimental facilities and outstanding graduate employment prospects.”

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Employers increasingly need scientists with the knowledge and skills that span the traditional boundaries of physics, chemistry and biology and are able to think in a more interdisciplinary way. To meet this new demand, we have developed a new degree, Integrated Sciences, with our four partner universities: Leicester, Surrey, London South Bank and East Anglia.

Learning in an interdisciplinary way will help you to stand out among other graduates as employers increasingly demand the skills and approach to scientific thinking that you will develop. During the Integrated Sciences degree you will acquire and improve your communication, I.T, problem-solving and investigative skills as well as becoming adept at critical thinking and evaluation. All these skills are transferable and don’t just lead to scientific careers. There are a huge range of career options after completing an Integrated Sciences degree: finance, the public sector, advertising and marketing, PR, quality assurance and regulatory affairs, I.T, recruitment, scientific or medical publishing, teaching – and much more.

All of the Integrated Sciences degrees are endorsed by industry partners and the Institute of Physics, to ensure academic quality and high standards. Each degree has its own “flavour” depending on the expertise in the partner universities. There is a whole host of options you can take to tailor your degree and meet your needs. So whether you want to learn about astrophysics or genetics to quantum theory and forensic science, we have the degree for you.

Integrated Sciences can also give you the option of taking a year abroad or in UK industry. There is the opportunity to boost your three-year Integrated Sciences degree into a four-year masters (MPhys or MSci) programme. The breadth and depth of the degree allows you to have greater choice and freedom while still maintaining the quality of a single-subjecthonours degree.

The entry grades for the course differ between all the host universities, but the minimum is at least one science A-level alongside your other A-levels and maths to GCSE level (grade B or above) so we’re sure to have something that’s right for you. For more information please visit the relevant universities websites or log on to www.integratedsciences.org.
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