**Programme Specification**

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| **Please note:** This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she passes the programme. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the programme handbook. The accuracy of the information contained in this specification is reviewed by the University and may be checked by the Quality Assurance Agency for Higher Education. |

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| **BSc (Hons) Biochemistry****BSc (Hons) Biochemistry with a Sandwich Year****BSc (Hons) Biochemistry with a Professional Year****BSc (Hons) Biochemistry with a Year Abroad****Diploma in Biochemistry****Certificate in Biochemistry** |

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| 1. **Awarding Institution/Body**
 | University of Kent |
| 1. **Teaching Institution**
 | University of Kent |
| 1. **School responsible for management of the programme**
 | School of Biosciences |
| 1. **Teaching Site**
 | Canterbury |
| 1. **Mode of Delivery**
 | Full-time |
| 1. **Programme accredited by**
 | Biochemistry with a Sandwich Year: Advanced Accreditation by the Royal Society of BiologyBSc (Hons) Biochemistry, BSc (Hons) Biochemistry with a Professional Year,BSc (Hons) Biochemistry with a Year Abroad: accredited by Royal Society of Biology |
| 1. **a) Final Award**
 | BSc (Hons) |
| 7. **b) Alternative Exit Awards**  | BSc (non hons) Biochemistry; Diploma in Biochemistry; Certificate in Biochemistry |
| 1. **Programme**
 | Biochemistry |
| 1. **UCAS Code (or other code)**
 | C700 BiochemistryC702 Biochemistry with a Sandwich YearC702 Biochemistry with a Professional YearC703 Biochemistry with a Year Abroad |
| 1. **Credits/ECTS Value**
 | Three year programmes 360 credits (180 ECTS)Four year programmes 480 credits (240 ECTS) |
| 1. **Study Level**
 | Undergraduate |
| 1. **Relevant QAA subject benchmarking group(s)**
 | Biosciences 2015 |
| 1. **Date of creation/revision**
 | Sept 2014/revised FSO Dec 2017  |
| 1. **Intended Start Date of Delivery of this Programme**
 | September 2018 |

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| 1. **Educational Aims of the Programme**

The programme aims to: |
| 1. Instil in you a sense of enthusiasm for biochemistry, confront the scientific, moral plus ethical questions raised by your study of biochemistry (considering viewpoints other than your own) and engage in critical assessment of the subject material covered. (**SB**)
2. Provide a stimulating, research-active environment for teaching and learning in which you will be supported and motivated to achieve your academic and personal potential.
3. Educate you in both the theoretical (subject-specific knowledge) and practical (laboratory skills and methods) aspects of biochemistry. (**SB**)
4. Facilitate your learning experience (integration and application of knowledge) through a variety of teaching and assessment methods. (**SB**)
5. Give you the experience of undertaking an independent research project (e.g. laboratory-, library-, computer-, business-, or school based). (**SB**)
6. Prepare you for further study, or training, and employment in both science and non-science based careers, by developing your transferable and cognitive skills. (**SB**)
7. Provide access to as wide a range of students as practicable.

***For Biochemistry with a Sandwich Year only***1. Give an opportunity to gain experience as a biochemist working in a professional environment such as industry, hospital research laboratories and government research laboratories

***For Biochemistry with a Professional Year only***1. To develop employment-related skills, including an understanding of how you relate to the structure and function in an organisation, via a Professional Year

***For Biochemistry with a Year Abroad only***1. Develop skills in appreciating learning in an international culture.
2. Experience and gain knowledge of the scientific working practices and culture of another country.
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| **16 Programme Outcomes**The programme provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas.The programme outcomes have references to the subject benchmarking statement for Biosciences (2015). |

**A. Knowledge and Understanding of:**

1. The main metabolic pathways used in biological systems in catabolism and anabolism, understanding biological reactions in chemical terms. (**SB 7.115.12**)
2. The variety of mechanisms by which metabolic pathways can be controlled and the way that tissue specific functions can be co-ordinated with the needs of the rest of the human body. (**SB7.11**)
3. The genetic organisation of various types of organism (e.g. microbes, humans) and the way in which genes can be expressed and their expression controlled. (**SB 5.12**)
4. The structure and function of the main classes of macromolecules such as DNA, RNA, proteins, lipids and polysaccharides. (**SB7.11**)
5. Protein structure and function, especially enzymes. (**SB7.11**)
6. The structure and function of biological membranes. (**SB7.11**)
7. The main mechanisms by which cells in the human body can communicate with each other.
8. The main principles of cell and molecular biology. (**SB7.11**)
9. The basic principles of microbiology. (**SB 7.11**)
10. The main experimental technique used in the study of biochemistry
11. The principle methods for communicating aspects of biochemistry

***For students on the Biochemistry with a Sandwich Year programme only***

1. The way a professional biochemist can contribute to the organisation in which they work

***For students on the Biochemistry with a Professional Year programme only***

1. How the skills (subject specific and/or generic) developed during a biochemistry degree can be applied in the workplace

***For students on the Biochemistry with a Year Abroad programme only***

1. The way biochemists are taught and trained in a different cultural setting

**Skills and Other Attributes**

**B. Intellectual Skills:**

1. To understand the scope of teaching methods and study skills relevant to the biochemistry degree programme.
2. To be able to understand the concepts and principles in outcomes A1-A11 (see above) recognising and applying biochemistry specific theories, paradigms, concepts or principles. For example, the relationship between genes and proteins. (**SB 5.2**)
3. To acquire the skills for analysis, synthesis, summary and presentation of biochemical information. **(SB 4.2)**
4. To be able to demonstrate competence in solving extended biochemical problems involving advanced data manipulation and comprehension using biochemical specific and transferable skills. (**SB 4.3**)
5. Integrate scientific evidence, to formulate and test hypotheses. (**SB 4.3**)
6. Structure, develop and defend complex scientific arguments by understanding and applying your knowledge base.
7. Be able to plan, execute and interpret the data from a short research project.
8. Recognise the moral and ethical issues of biochemical investigations and appreciate the need for ethical standards and professional codes of conduct. (**SB 4.2**)

**C. Subject-specific Skills:**

1. To be able to handle biological material and chemicals in a safe way, thus being able to assess any potential hazards associated with biochemical experimentation. **(SB 5.6)**
2. Perform risk assessments prior to the execution of a biochemical experimental protocol. (**SB 5.6**)
3. To be able to use basic and advanced experimental equipment in executing the core practical techniques used by biochemists. (**SB 5.6**)
4. To find information on biochemical systems from a wide range of information resources (e.g. journals, books, electronic databases) and maintain an effective information retrieval strategy.**(SB 5.5)**
5. To be able to plan, execute and assess the results from biochemical experiments using acquired subject-specific knowledge. (**SB 5.6**)
6. To identify the best method for presenting and reporting on biochemical investigations using written, data manipulation/presentation and computer skills. **(SB 5.7)**
7. Be aware of the employment opportunities for biochemistry graduates

***For Biochemistry with a Sandwich Year only***

1. Be aware of the employment opportunities for biochemistry with a Sandwich Year graduates

***For Biochemistry with a Professional Year only***

1. Be aware of the employment opportunities for Biochemistry with a Professional Year graduates.

***For Biochemistry with a Year Abroad only***

1. Be aware of the employment opportunities for biochemistry graduates with a year abroad

**D. Transferable Skills:** *(Non-subject specific key skills)*

1. To be able to receive and respond to a variety of sources of information (e.g. textual, numerical, verbal, graphical). (**SB 4.3**)
2. To be able to communicate effectively to a variety of audiences using a range of formats and approaches (**SB 4.4**)
3. Problem solve by a variety of methods (especially numerical) including the use of computers. (**SB 4.2**)
4. Use the internet and other electronic sources critically as a means of communication and as a source of information. (**SB 4.3**)
5. Have interpersonal and teamwork skills that allow you to plus identify individual and collective goals, recognise and respect views and opinions of other team members. (**SB 4.59**)
6. Have self-management plus organisational skills and the capacity to support life-long learning. (**SB 4.6**)
7. Awareness of information sources for assessing and planning future career development.

***For Biochemistry with a Year Abroad only***

1. Be able to work and communicate in a different cultural setting

**Teaching/learning and assessment methods and strategies used to enable the programme learning outcomes to be achieved and demonstrated.**

**Teaching and learning**

* Skills modules, team activities, oral/visual, problem solving classes, presentations, interviews and research projects.
* Acquisition of outcomes in sections A-D above is through a combination of lectures, workshops (including problem-solving, literature review, etc), laboratory practical classes, research project and associated assessment. There are also visits to local hospital and public health laboratories to observe the way that knowledge and understanding of biomedical science is used in a working environment.
* Lectures provide a key format for students to develop mechanisms for acquiring biomedical information, identify key concepts and order material in a form that is easy to access and understand. In addition they are one format in which students can be made aware of ethical issues relating to biomedical science. Students have specific lectures given on career guidance, and have an opportunity to consult teaching staff, visiting lecturers and graduate students in the School of Biosciences.
* Workshops and practical classes enable students to obtain guidance and practice in manipulating data and other information in order to solve biomedical problems.
* Practical classes and the research project provide opportunities to formulate and test hypotheses, consider ethical issues, work as part of a team and present well-structured arguments relating to the interpretation of experimental information obtained. Professional codes of conduct expected of a biomedical scientist are identified where appropriate in all of the above modes of teaching and learning.
* Small group teaching sessions allow individual discussion of issues and problems.
* Research projects provide an extended period of time to investigate an aspect of biomedical science in detail using the knowledge and skills acquired during the degree programme.
* The Sandwich Year is used for the attainment of outcome A12.
* The Professional Year is used for the attainment of outcome A13.
* The Year Abroad is used for the attainment of outcome A14.

**Assessment**

* Coursework: essays, data / literature analysis, oral presentations, practical reports, research project reports, and group discussions.
* Examinations
* The Sandwich Year has a variety of assessment methods associated with it including a project report, placement supervisor report and an oral presentation.
* The Professional Year has a variety of assessment methods associated with it including a written report, placement supervisor report and an oral presentation.
* The Year Abroad has a variety of assessment methods, depending upon the host institution. Assessment of the Year Abroad is carried out by Pass/Fail according to criteria of the host university.

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| For more information on the skills developed by individual modules and on the specific learning outcomes associated with any Certificate, Diploma or BA/BSc non-honours awards relating to this programme of study, see the module mapping table, located at the end of this specification.  |

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| **17 Programme Structures and Requirements, Levels, Modules, Credits and Awards**The Biochemistry programme is studied over three years full-time.It is divided into three stages, each stage comprising modules to a total of 120 credits. Students must successfully complete each module in order to be awarded the specified number of credits for that module. One credit corresponds to approximately ten hours of 'learning time' (including all classes and all private study and research). Thus obtaining 120 credits in an academic year requires 1,200 hours of overall learning time. For further information on modules and credits, refer to the Credit Framework at <http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfo.html>.Each module and programme is designed to be at a specific level. For the descriptors of each of these levels, refer to Annex 2 of the Credit Framework at <http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfoannex2.html>. To be eligible for the award of an honours degree students must obtain 360 credits, at least 210 of which must be at Level 5 or above, including at least 90 credits at level 6 or above at Stage 3.Students successfully completing Stage 1 of the programme and meeting credit framework requirements who do not successfully complete Stage 2 will be eligible for the award of the Certificate in Biochemistry. Students successfully completing Stage 1 and Stage 2 of the programme and meeting Credit Framework requirements who do not successfully complete Stage 3 will be eligible for the award of the Diploma in Biochemistry. Students successfully completing Stage 2 of the programme and achieving 300 credits overall with at least 150 credits at level 5 or above including at least 60 credits at level 6 or above in Stage 3 and meeting Credit Framework requirements will be eligible for the award of a BSc non-honours degree.Students successfully completing Stage 2 and also the year abroad/placement and meeting credit framework requirements will be eligible for the award of the Diploma with a Year Abroad/Sandwich Year/Professional Year.For further information, refer to the Credit Framework at <https://www.kent.ac.uk/teaching/qa/credit-framework/creditinfo.html#exit-awards>.Compulsory modules are core to the programme and must be taken by all students studying the programme. Optional modules provide a choice of subject areas, from which students will select a stated number of modules.Where a student fails a module(s) due to illness or other mitigating circumstances, such failure may be condoned, subject to the requirements of the Credit Framework and provided that the student has achieved the **programme** learning outcomes. For further information, refer to the Credit Framework at <http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfo.html>.Where a student fails a module(s), but has marks for such modules within 10 percentage points of the pass mark, the Board of Examiners may nevertheless award the credits for the module(s), subject to the requirements of the Credit Framework and provided that the student has achieved the **programme** learning outcomes. For further information, refer to the Credit Framework.However, failure to attain the learning outcomes in certain modules may not be compensated or condoned. These modules are marked with the \* symbol. The programme detailed below is subject to change. Please check stage handbooks for details of module pre-requisites and co-requisites.To be eligible for an honours degree in **Biochemistry** you must obtain 360 credits of which at least 210 credits are at level 5 or above including at least 90 credits at level 6. Stage 2 and Stage 3 module marks contribute to the degree classification in the ration 40% stage 2: 60% Stage 3. A degree without honours will be awarded where students achieve 300 credits with at least 150 credits at level 5 or above including at least 60 credits at level 6. Students may not progress to the non-honours degree programme; the non-honours programme will be awarded as an alternative exit award.**Biochemistry with a Sandwich Year**, **Biochemistry with a Professional Year** and **Biochemistry with a Year Abroad** are studied full time over four years with the additional year taking place between Stage 2 and Stage 3 of the three year programme. The Sandwich Year, Professional Year and Year Abroad are considered as being one module worth 120 credits at level 6. To be eligible for these programmes, you must achieve an overall average of 65% at Stage 1 unless you applied directly through UCAS for a four year programme *and* met or exceeded the conditions of the entry offer made. Student entrants from September 2019 onwards who are offered a Year Abroad placement on the basis of Stage 1 grades must maintain their academic performance through Stage 2 (achieving an overall Stage 2 average of 60%) to be permitted to take up the offer. To be eligible for an honours degree in **Biochemistry with a Sandwich Year** you must obtain 480 credits of which at least 210 credits are at level 5 or above including at least 90 credits at level 6 in addition to those credits gained from the Sandwich Year module. Stage 2 and Stage 3 module marks contribute to the degree classification as does the Sandwich Year in the ratio 35% Stage 2: 10% Sandwich Year: 55% Stage 3. A degree without honours will be awarded where students achieve 420 credits with at least 150 credits at level 5 or above including at least 60 credits at level 6 in addition to those credits gained from the Sandwich Year module. Students may not progress to the non-honours degree programme; the non-honours programme will be awarded as an alternative exit award only.To be eligible for an honours degree in **Biochemistry with a Professional Year** you must obtain 480 credits of which at least 210 credits are at level I or above including at least 90 credits at level 5 in addition to those credits gained from the Professional Year module. Stage 2 and Stage 3 module marks contribute to the degree classification in the ratio 40% Stage 2: 60% Stage 3. The Professional Year is awarded on a pass/fail basis. A degree without honours will be awarded where students achieve 420 credits with at least 150 credits at level 5 or above including at least 60 credits at level 6 in addition to those credits gained from the Professional Year module. Students may not progress to the non-honours degree programme; the non-honours programme will be awarded as an alternate exit award only.To be eligible for an honours degree in **Biochemistry with a Year Abroad** you must obtain 480 credits of which at least 210 credits are at level 5 or above including at least 90 credits at level 6 in addition to those credits gained from the Year Abroad module. Stage 2 and Stage 3 module marks contribute to the degree classification in the ratio 40% Stage 2: 60% Stage 3. The Year Abroad is awarded on a pass/fail basis according to the regulations of the host institution. Students not passing the Year Abroad module will be eligible to transfer to the Biomedical Science degree programme. A degree without honours will be awarded where students achieve 420 credits with at least 150 credits at level 5 or above including at least 60 credits at level 6 in addition to those credits gained from the Year Abroad module. Students may not progress to the non-honours degree programme; the non-honours programme will be awarded as an alternative exit award only.A Diploma in Biochemistry and a Certificate in Biochemistry may be awarded depending on the credits achieved according to the Credit Framework. |

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| **KV Code** | **Code** | **Title** | **Level** | **Credits** | **Term(s)** |
| **Stage 1** |
| **Compulsory Modules - 120 credits** |
| BIOS3000\* | BI300\* | Introduction to Biochemistry | 4 | 15 | 1 |
| BIOS3010\* | BI301\* | Enzymes and Introduction to Metabolism | 4 | 15 | 2 |
| BIOS3020\* | BI302\* | Molecular and Cellular Biology | 4 | 15 | 1 |
| BIOS3070\* | BI307\* | Human Physiology and Disease | 4 | 15 | 2 |
| BIOS3080\* | BI308\* | Skills for Bioscientists | 4 | 15 | 1 & 2 |
| BIOS3221\* | BI322\* | Chemistry for Biologists B | 4 | 30 | 1 & 2 |
| BIOS3240\* | BI324\* | Genetics and Evolution | 4 | 15 | 1 & 2 |
| **Stage 2** |
| **Compulsory Modules - 105 credits** |
| BIOS5200 | BI520 | Metabolism and Metabolic Disease | 5 | 15 | 1 |
| BIOS5210 | BI521  | Metabolism and its Regulation | 5 | 15 | 2 |
| BIOS5010 | BI501  | Gene Expression | 5 | 15 | 2 |
| BIOS5030 | BI503  | Cell Biology | 5 | 15 | 1 & 2 |
| BIOS5050 | BI505 | Infection and Immunity | 5 | 15 | 1 & 2 |
| BIOS5130 | BI513 | Human Physiology and Disease II | 5 | 15 | 1 |
| BIOS5320 | BI532 | Skills for Bioscientists 2 | 5 | 15 | 1 & 2 |
| **Optional Modules** Students must select 15 credits from the list of optional modules approved by the School of Biosciences. |
| **Sandwich Year** |
| BIOS7970\* | BI797\* | Sandwich Placement | 6 | 120 | One Academic Year (9-12 months) |
| **Professional Year** |
| BIOS7980\* | BI798\* | Professional Placement | 6 | 120 |  One Academic Year (9-12 months) |
| **Year Abroad** |
| BIOS7960\* | BI796\* | Year Abroad Module | 6 | 120 |  One Academic Year (9-12 months) |
| **Stage 3** |
| **Compulsory Modules - 75 credits** |
| BIOS6000\* |  BI600\* | Research Project | 6 | 30 | 2 |
| BIOS6040 |  BI604 | Biological Membranes | 6 | 15 | 2 |
| BIOS6290 |  BI629 | Proteins | 6 | 30 | 1 |
| **Optional Modules** Students must select 45 credits from the list of optional modules approved by the School of Biosciences. |

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| **18 Work-Based Learning** |
| Disability Statement: Where disabled students are due to undertake a work placement as part of this programme of study, a representative of the University will meet with the work placement provider in advance to ensure the provision of anticipatory and reasonable adjustments in line with legal requirements. |
| Where relevant to the programme of study, provide details of any work-based learning element, inclusive of employer details, delivery, assessment and support for students: |
| The Sandwich Year and the Professional Year are normally a 9-12 month placement external to UoK between Stages 2 and 3 and represents 120 credits.The onus is on the student to secure the placement with support from the Biosciences Placement Co-ordinator.The Sandwich Year contributes 10% to the overall degree mark and is composed of three elements,1. placement supervisors rating of performance and demonstrated abilities (30%)
2. oral presentation and abstract – given in open forum and marked by two academic

 staff (20%)1. research project report – marked by two academic staff (50%)

The supervisor mark is arrived at in consultation with the students UoK Academic Adviser and/or the Programme Coordinator which provides support for the supervisor and ensures uniformity of standards.The Professional Year placement is assessed as pass-fail, based on evaluation of:1. Written report on the placement work, including a reflective document evaluating the placement in terms of knowledge and skills gained and influence on career plans. This is submitted on completion of the placement and evaluated by two members of academic staff in the School of Biosciences.
2. Oral presentation (and Abstract) given in open session as part of a symposium on return to UoK and evaluated by two academic staff in the audience.
3. Performance and demonstrated abilities on the job, evaluated by the placement supervisor with guidance from academic staff in the School of Biosciences (student’s tutor/Academic Advisor and Programme Coordinator) on standards expected.

Students on the Sandwich or Professional Year are supported during the placement by the Biosciences Placement Coordinator and also their Academic Advisor who visits near the start of the placement. There is a Return Day in the Spring Term, which provides opportunity to discuss progress with the work and report preparation, to practice an oral presentation, and to receive feedback. |

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| **19 Support for Students and their Learning** |
| * School and University induction programme
* Programme/module handbooks
* Library services [http://www.kent.ac.uk/library](http://www.kent.ac.uk/library/)
* Student Support [http://www.kent.ac.uk/studentsupport](http://www.kent.ac.uk/studentsupport/)
* Student Wellbeing [www.kent.ac.uk/studentwellbeing](http://www.kent.ac.uk/studentwellbeing/)
* Centre for English and World Languages <http://www.kent.ac.uk/cewl/index.html>
* Student Learning Advisory Service <http://www.kent.ac.uk/uelt/about/slas.html>
* PASS system <https://www.kent.ac.uk/teaching/qa/codes/taught/annexg.html>
* Academic Adviser system <https://www.kent.ac.uk/teaching/advisers/index.html>
* Kent Union [www.kentunion.co.uk](http://www.kentunion.co.uk/)
* Careers and Employability Services [www.kent.ac.uk/ces](http://www.kent.ac.uk/ces/)
* Counselling Service <https://www.kent.ac.uk/studentwellbeing/counselling>
* Information Services (computing and library services) [www.kent.ac.uk/is](http://www.kent.ac.uk/is/)
* Undergraduate student representation at School, Faculty and Institutional levels
* International Recruitment Office [https://www.kent.ac.uk/internationalstudent](https://www.kent.ac.uk/internationalstudent/); International Partnerships Office [https://www.kent.ac.uk/global/partnerships](https://www.kent.ac.uk/global/partnerships/)
* Medical Centre <https://www.kent.ac.uk/studentwellbeing/medicalcentre.html>
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| **20 Entry Profile**The minimum age to study a degree programme at the university is normally at least 17 years old by 20 September in the year the programme begins. There is no upper age limit. |
| 20.1 **Entry Route**For current information, please refer to the University prospectus. |
| 1. A levels

ABB (4-year programmes) or BBB (3-year programme) including Biology/Human Biology and Chemistry and the practical endorsement of any science qualification taken. Grade C at GCSE Maths and English language. 1. International baccalaureate

34 points overall or 16 points (4-year programmes) or 15 points (3-year programmes) at higher level (HL). Points to include: (a) HL English A1/A2/B at 4/5/5 or SL English A1/A2/B at 5/6/6, (b) HL or SL Maths at 4 and (c) HL Biology at 5 or SL Biology at 6 and (d) HL Chemistry at 5 or SL Chemistry at 6.1. Vocationally-related qualifications

We will consider applicants with vocationally-related qualifications including VCE A levels and the extended BTEC diploma in applied science on an individual basis. Offers when made for BTEC are typically DDD for 3-year programmes and D\*DD for 4-year programmes and will list a number of specific units required at distinction.1. Scottish Higher/Irish Leaving Certificate

Applicants will be considered on an individual basis.1. EU Students

A range of qualifications are available in the 27 member states and applicants will be considered on an individual basis. General entry requirements (GER) concerning English language ability will apply to applicants from non-English speaking countries.1. Mature Students

We will consider applicants with vocational qualifications and/or relevant work experience and will judge each applicant on his/her individual merits. We will also consider applicants taking an Access to HE diploma in an appropriate subject (e.g. combined science). Access offers when made are typically to achieve 36 level-3 credits at distinction and 9 at merit.1. Overseas Students

Overseas applicants with qualifications obtained in their home country will be judged on an individual basis and in consultation with the International Office where appropriate. GER concerning English language ability will apply to applicants from non-English speaking countries. |
| 20.2 **What does this programme have to offer?** |
| * A thorough training in biochemistry in a stimulating and research active environment.
* A structured opportunity to gain key transferable skills such as numeracy, problem solving and IT valued by future employers.
* High rates of graduate employment.
* An exciting opportunity to apply skills acquired in a working environment whilst on placement (Sandwich Year and Professional Year programmes only)
* The opportunity to experience learning in a different cultural setting (Year Abroad programme).
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| 20.3 **Personal Profile** |
| * You will have a keen interest in biological systems especially how they are designed and operated at the molecular level.
* You will appreciate the need to be able to relate chemical principles to biochemical systems in order to full comprehend how they work.
* You will have suitable levels of numeracy and written communication skills and a willingness to develop these further in addition to a willingness to acquire or develop other skills, such as those associated with IT. In addition, you will have a commitment to developing the specific skills required of a professional biochemist.
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| 21 **Methods for Evaluating and Enhancing the Quality and Standards of Teaching and Learning** |
| 21.1 **Mechanisms for review and evaluation of teaching, learning, assessment, the curriculum and outcome standards** |
| * Student module evaluations
* Annual programme and module monitoring reports <http://www.kent.ac.uk/teaching/qa/codes/taught/annexe.html>
* External Examiners system <http://www.kent.ac.uk/teaching/qa/codes/taught/annexk.html>
* Periodic programme review <http://www.kent.ac.uk/teaching/qa/codes/taught/annexf.html>
* Annual staff appraisal
* Peer observation
* Quality Assurance Framework <http://www.kent.ac.uk/teaching/qa/codes/index.html>
* QAA Higher Education Review <http://www.qaa.ac.uk/InstitutionReports/types-of-review/higher-education-review/Pages/default.aspx>
* Personal Academic Support System
* Mentoring/PGCHE training for new lecturers
* External Accreditation by Society of Biology
* Feedback from Placement Supervisors
* Feedback for Year Abroad Placement Supervisors
* Continuous monitoring of student progress and attendance
* Vetting process of examination questions by module team/internal and external examiners
 |
| 21.2 **Committees with responsibility for monitoring and evaluating quality and standards** |
| * Staff-Student Liaison Committee
* School Education Committee
* Faculty Education Committee
* Faculty Board
* Education Board
* Board of Examiners
 |
| 21.3 **Mechanisms for gaining student feedback on the quality of teaching and their learning experience** |
| * Student module evaluations
* Staff-Student Liaison Committee
* Student rep system (School, Faculty and Institutional level)
* Annual NSS
* Email communication between students and teaching staff
 |
| 21.4 **Staff Development priorities include:** |
| * PGCHE requirements
* HEA (associate) fellowship membership
* Annual appraisals
* Institutional Level Staff Development Programme
* Academic Practice Provision (PGCHE, other development opportunities)
* Professional body membership and requirements
* Programme team meetings
* Research seminars
* Conferences
* Study leave
* Equality, Diversity and Inclusivity (EDI) awareness
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| 22 **Indicators of Quality and Standards** |
| * Results of periodic programme review (March 18 2016)
* Professional accreditation - Society of Biology (Sandwich Year only)
* QAA Higher Education Review 2015
* Annual External Examiner reports
* Annual programme and module monitoring reports
 |
| 22.1 **The following reference points were used in creating these specifications:** |
| * QAA UK Quality Code for Higher Education <http://www.qaa.ac.uk/assuring-standards-and-quality>
* QAA Benchmarking statement for Biosciences (2015)
* Accreditation requirements of Society of Biology
* School and Faculty plan
* University Plan [https://www.kent.ac.uk/about/plan](https://www.kent.ac.uk/about/plan/) and Learning and Teaching Strategies <https://www.kent.ac.uk/uelt/strategies/lta.html>
* Staff research activities
* Kent Inclusive Practices (<https://www.kent.ac.uk/studentsupport/accessibility/inclusive-practice.html>)
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| 23 **Inclusive Programme Design**  |
| The School recognises and has embedded the expectations of current equality legislation, by ensuring that the programme is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services. |

*Module mapping table to be amended as appropriate to the programme specification. Where the programme includes many optional modules, it is acceptable to include only the compulsory modules in the table.*

**Programme Title: BSc (Hons) Biochemistry**

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| Biochemistry | Knowledge and Understanding | Intellectual skills |
| Stage 1 | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 |
| BI300 | X | X |  | X | X | X |  |  |  | X | X |  |  |  | X | X | X | X |  |  |  |  |
| BI301 | X | X |  | X | X |  |  |  |  | X | X |  |  |  | X | X | X | X |  |  |  |  |
| BI302 |  |  | X | X |  | X | X | X | X | X | X |  |  |  | X | X | X |  |  |  |  |  |
| BI307 |  | X |  |  |  |  | X |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |
| BI308 | X |  |  |  |  |  |  |  |  | X | X |  |  |  | X | X | X | X |  |  |  |  |
| BI322 | X |  |  |  | X |  |  |  |  |  |  |  |  |  | X | X | X | X |  |  |  |  |
| BI324 |  |  | X |  |  |  |  | X |  |  |  |  |  |  | X | X | X | X |  |  |  |  |
| Stage 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BI501 |  | X | X | X |  |  |  | X |  | X | X |  |  |  | X | X | X | X |  |  |  |  |
| BI503 |  |  |  | X | X | X |  | X |  | X | X |  |  |  | X | X | X |  |  |  |  |  |
| BI505 |  |  |  |  | X |  | X |  | X |  | X |  |  |  | X | X | X |  |  |  |  |  |
| BI513 |  | X |  |  |  |  | X |  |  | X | X |  |  |  | X | X | X |  |  |  |  |  |
| BI520 | X | X |  |  | X |  |  |  |  | X | X |  |  |  | X | X | X |  |  |  |  |  |
| BI521 | X | X |  |  | X |  |  |  |  | X | X |  |  |  | X | X | X |  |  |  |  |  |
| BI532 |  |  |  | X |  |  |  |  |  | X | X |  |  |  | X | X | X | X |  |  |  |  |
| Sandwich Year |
| BI797 |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| Professional year |
| BI798 |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |
| Year Abroad |
| BI796 |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| Stage 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BI600 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X |  | X |  | X | X |
| BI604 |  |  |  | X | X | X | X | X |  | X | X |  |  |  | X | X | X | X | X | X |  |  |
| BI629 | X | X |  | X | X |  |  |  |  | X | X |  |  |  | X | X | X | X | X | X |  |  |

|  |  |  |
| --- | --- | --- |
| Biochemistry | Subject – specific Skills | Transferable Skills |
| Stage 1 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 |  |
| BI300 | X | X | X | X | X | X |  |  |  |  | X | X | X | X | X | X |  |  |  |
| BI301 | X | X | X | X | X | X |  |  |  |  | X | X | X | X | X | X |  |  |  |
| BI302 | X | X | X | X | X | X |  |  |  |  | X | X |  | X | X | X |  |  |  |
| BI307 |  |  |  | X |  |  |  |  |  |  | X | X |  | X |  | X |  |  |  |
| BI308 | X | X | X | X | X | X | X |  |  |  | X | X | X | X | X | X |  |  |  |
| BI322 |  |  |  | X |  | X |  |  |  |  | X | X | X | X |  | X |  |  |  |
| BI324 |  |  |  | X |  | X |  |  |  |  | X | X | X | X |  | X |  |  |  |
| Stage 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BI501 |  |  |  | X |  | X |  |  |  |  | X | X | X | X |  | X |  |  |  |
| BI503 | X | X | X | X | X | X |  |  |  |  | X | X |  | X |  | X |  |  |  |
| BI505 | X | X | X | X | X | X |  |  |  |  | X | X |  | X |  | X |  |  |  |
| BI513 | X | X | X | X | X | X |  |  |  |  | X | X |  | X |  | X |  |  |  |
| BI520 | X | X | X | X | X | X |  |  |  |  | X | X |  | X |  | X |  |  |  |
| BI521 | X | X | X | X | X | X |  |  |  |  | X | X | X | X | X | X |  |  |  |
| BI532 | X | X | X | X | X | X | X |  |  |  | X | X |  | X |  | X | X |  |  |
| Sandwich Year |
| BI797 |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |
| Professional Year |
| BI798 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| Year Abroad |
| BI796 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  |
| Stage 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BI600 |  |  |  | X |  | X |  |  |  |  | X | X |  | X |  | X | X |  |  |
| BI602 | X | X | X | X | X | X |  |  |  |  | X | X |  | X |  | X |  |  |  |
| BI604 | X | X | X | X | X | X |  |  |  |  | X | X | X | X | X | X |  |  |  |
| BI629 |  |  |  | X |  | X |  |  |  |  | X | X | X | X | X | X |  |  |  |