This document provides a definitive record of the main features of the programme and the learning outcomes that a typical student may reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities provided. This programme specification is intended as a reference point for prospective students, current students, external examiners and academic and support staff involved in delivering the programme and enabling student development and achievement.

### Programme Information

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<th>Award(s)</th>
<th>BSc</th>
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<td>Associateship</td>
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<td>Biochemistry with Management and a Year in Industry</td>
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<td>Programme code</td>
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<td>Awarding Institution</td>
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<td>Teaching Institution</td>
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<tr>
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<td>Department</td>
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<td>Mode and Period of Study</td>
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<td>Cohort Entry Points</td>
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<td>Relevant QAA Benchmark Statement(s) and/or other external reference points</td>
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<td>External Accreditor(s)</td>
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### Specification Details

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<tr>
<td>Person responsible for the specification</td>
<td>Professor Anne Dell</td>
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<td>Date of introduction of programme</td>
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<tr>
<td>Date of programme specification/revision</td>
<td>August 2016</td>
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</table>
# Description of Programme Contents

The BSc Biochemistry with Management and a Year in Industry programme is a four-year degree.

In the first two years students will tackle core subjects to ensure that they receive a solid grounding in fundamentals.

In the third year students will undertake a one-year placement in an industrial laboratory carrying out a research project.

The final year will be spent in the Imperial College Business School.

# Learning Outcomes

The Imperial Graduate Attributes are a set of core competencies which we expect students to achieve through completion of any Imperial College degree programme. The Graduate Attributes are available at: [www.imperial.ac.uk/students/academic-support/graduate-attributes](http://www.imperial.ac.uk/students/academic-support/graduate-attributes)

## Knowledge and Understanding of:

- Biological chemistry; molecular biology and genetics; cell biology; protein and enzyme structure and function; (Year 1)
- Genes and genomics; macromolecular structure and function; integrative cell biology; (Year 2)
- Advanced knowledge and understanding of three specialist modules; (Year 3)

## Intellectual Skills (thinking) skills - able to:

- Analyse and solve biochemistry-based problems;
- Integrate and evaluate information;
- Formulate and test hypotheses using appropriate experimental design and statistical analysis of data;
- Plan, conduct and write-up a programme of original research

## Practical skills – able to:

- Plan and execute safely a series of experiments;
- Use laboratory methods to generate data;
- Analyse experimental results and determine their strength and validity;
- Prepare technical reports;
- Give technical presentations;
- Use the scientific literature effectively;
- Use computational tools and packages.

## Transferable skills – able to:

- Communicate effectively through oral presentations, computer processing and presentations, and written reports;
- Work independently and as part of a team
- Integrate and evaluate information from a variety of sources;
- Use Information and Communications Technology;
- Manage resources and time;
- Learn independently with open-mindedness and critical enquiry;
- Learn effectively for the purpose of continuing professional development.
### Entry Requirements

| Academic Requirement | The minimum entry requirements for all Biochemistry courses are AAA overall at A2 level, to include:  
|                      | A in Chemistry  
|                      | A in another science subject (Biology is preferred but not mandatory) or Mathematics  
|                      | The ideal combinations would be Chemistry and two further science subjects or Chemistry and one further science subject and Mathematics, but other combinations are considered.  
|                      | Two AS levels may be acceptable in place of a third A level. This is in addition to Grade B or above in GCSE Mathematics, Chemistry, Biology (or Combined Sciences) |
| Non-academic Requirements | None |
| Offers for our Biochemistry, Biotechnology and Biological Sciences courses are made based on information supplied on the UCAS form. Generally, we do not hold interviews. |
| English Requirement | IELTS 6.5 with a minimum of 6.0 in each element or equivalent |
| The programme’s competency standards documents can be found at: [http://www.imperial.ac.uk/students/academic-support/graduate-attributes/](http://www.imperial.ac.uk/students/academic-support/graduate-attributes/) |

### Learning & Teaching Strategy

| Scheduled Learning & Teaching Methods | • Laboratory  
|                                     | • Lectures  
|                                     | • Tutorials  
|                                     | • Seminars |
| E-learning & Blended Learning Methods | • Computer-based work |
| Project and Placement Learning Methods | • Group project  
|                                         | • Research project/dissertation  
|                                         | • Site visits |

### Assessment Strategy

| Assessment Methods | • Written Examinations  
|                    | • Coursework  
|                    | • Laboratory write-ups  
|                    | • Essays  
|                    | • Reports  
<p>|                    | • Dissertations |</p>
<table>
<thead>
<tr>
<th>Academic Feedback Policy</th>
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<tbody>
<tr>
<td>Coursework feedback is provided by a feedback form attached to items of coursework. Feedback is also provided via Blackboard on automatically-assessed pieces of coursework and on formative MCQ quizzes. Personal tutors hold timetabled tutorials at the start of the academic year to give feedback on examination performance and can be approached by their tutees at any point in the year for further guidance. The undergraduate teaching office repeatedly informs individual staff via email when coursework is due back at the appropriate time. The Director of Undergraduate Studies routinely monitors the quality and quantity of feedback provided on marked coursework. In some instances, generic class feedback is returned to all students via email or a Blackboard announcement once coursework is marked.</td>
</tr>
</tbody>
</table>

The College’s Policy on Re-sits is available at: [www.imperial.ac.uk/registry/exams/resit](http://www.imperial.ac.uk/registry/exams/resit)

The College’s Policy on Mitigating Circumstances is available at: [www.imperial.ac.uk/registry/exams](http://www.imperial.ac.uk/registry/exams)

<table>
<thead>
<tr>
<th>Assessment Structure</th>
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<tbody>
<tr>
<td>Marking Scheme</td>
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</table>

**Regulation of Assessment**

Minimum pass mark is 40% overall for each course module, which must include a mark of at least 35% in the coursework component and a mark of at least 35% in the examination.

For course modules that include a written examination, coursework typically contributes 20-25% of the total marks available.

Assessment details are provided in the Student Handbook.

The final degree mark is calculated from the mean mark achieved in Years 1, 2 and 4.

The year weightings for students admitted in or after October 2013 are 14.2:42.9:0:42.9, respectively.

The year weightings for students admitted before October 2013 are 5:45:0:50.

To qualify for the award of BSc Honours, students must pass all courses.

**Assessment Rules and Degree Classification:**

For undergraduate programmes classification of degrees will be according to the following range of marks:

- First class 70 - 100%
- Second class (upper division) 60 - 69.9%
- Second class (lower division) 50 - 59.9%
- Third class 40 - 49.9%
- Fail 0-39%
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<th>Year</th>
<th>% Year Weighting</th>
<th>Module</th>
<th>% Module Weighting</th>
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<td>Proteins and Enzymes</td>
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<td></td>
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<td>Biological Chemistry</td>
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<td>Cell Biology</td>
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<td>Year Two</td>
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<td>Genes and Genomics</td>
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<td>Integrative Cell Biology</td>
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# Supporting Information

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<tr>
<td>The College’s entry requirements for undergraduate programmes can be found at: <a href="http://www.imperial.ac.uk/study/ug/apply/requirements/">www.imperial.ac.uk/study/ug/apply/requirements/</a></td>
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