DEPARTMENT OF LIFE SCIENCES

Scheme for the Award of Honours
Life Sciences Degrees 2022-23

For students admitted from 2019-20 onwards

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3.4.1. Placement Year

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3.5.1. Placement Year

3.6. C1N2 Biological Sciences with Management (3-year)

3.6.1. Management Year

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Appendix A
1. Scheme for Honours for Life Sciences Degrees 2021-22

1.1. General
This scheme is that formally accepted by Imperial College London for the award of BSc Honours in:

- C700 BSc Biochemistry (3-year)
- C7N2 BSc Biochemistry with Management (3-year)
- J700 BSc Biotechnology (3-year)
- C7NG BSc Biochemistry with Management (4-year)
- C701 BSc Biochemistry with a Year in Industry/Research (4-year)
- C702 BSc Biochemistry with Research Abroad (4-year)
- J7N2 BSc Biotechnology with Management (4-year)
- J701 BSc Biotechnology with Research Abroad (4-year)
- J702 BSc Biotechnology with a Year in Industry/Research (4-year)
- C7R1 BSc Biochemistry with French for Science (4-year)
- C7R2 BSc Biochemistry with German for Science (4-year)
- C7R4 BSc Biochemistry with Spanish for Science (4-year)
- J7R1 BSc Biotechnology with French for Science (4-year)
- J7R2 BSc Biotechnology with German for Science (4-year)
- J7R4 BSc Biotechnology with Spanish for Science (4-year)

- C100 Biological Sciences (3-year)
- C500 Microbiology (3-year)
- C180 Ecology and Environmental Biology (3-year)
- C102 Biological Sciences with a Research Abroad (4-year)
- C110 Biological Sciences with a Year in Industry/Research (4-year)
- C1N2 Biological Sciences with Management (3-year)
- C1NG Biological Sciences with Management (4-year)
- C1R1 Biological Sciences with French for Science (4-year)
- C1R2 Biological Sciences with German for Science (4-year)
- C1R4 Biological Sciences with Spanish for Science (4-year)

1.2. Degree Classification

1.2.1. Taking a Module
The word 'take' in the context of these regulations means that the student has (unless prevented by mitigating circumstances, Section 1.3.5) attended the timetabled parts of a module, sat its examination and submitted the coursework specified for it.

1.2.2. Module ECTS Point Values
Each module is assigned a European Credit Transfer Scheme (ECTS) points value. A module’s ECTS points value is used as that module’s weight in students’ average marks for the year in which the module is taken.

Students take modules specified for their course (Section 2) and pass all modules to obtain the necessary ECTS points. This includes passing the modules and gaining the ECTS points allocated to the year spent outside the Department in courses with a Placement Year (even though this year is zero-weighted) or Management Year.
Course Module ECTS Point Values and Unit Values

<table>
<thead>
<tr>
<th>First Year</th>
<th>Module’s ECTS points for all courses except Language for Science programmes</th>
<th>Module’s ECTS points for Language for Science courses (C1R1, C1R2, C1R4, C7R1, C7R2, C7R4, J7R1, J7R2, J7R4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• First Year modules (each, ×4)</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>• First Year language component (Language for Science only: C1R1, C1R2, C1R4, C7R1, C7R2, C7R4, J7R1, J7R2, J7R4)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td><strong>Total in First Year</strong></td>
<td><strong>60</strong></td>
<td><strong>70</strong></td>
</tr>
<tr>
<td>Biochemistry/Biotechnology Second Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Structural Biology</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>• Genes and Genomics</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• Bioinformatics, Programming and Statistics</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>• Protein Science</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• Integrative Cell Biology</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>• Tutored Dissertation</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• Topics in Biotechnology or Challenges in Cell Biology or Applied Molecular Biochemistry or Computational ‘Omic</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• iExplore</td>
<td>5/7.5</td>
<td></td>
</tr>
<tr>
<td>• Second Year language component (Language for Science only: C7R1, C7R2, C7R4, J7R1, J7R2, J7R4)</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td><strong>Total in Second Year (Biochemistry/Biotechnology)</strong></td>
<td><strong>60/62.5</strong></td>
<td>65</td>
</tr>
<tr>
<td>Biological Sciences, Microbiology, Ecol. &amp; Env. Biol. Second Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Applied Molecular Biology</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• Genetics</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• Bioinformatics, Programming and Statistics</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>• Cell and Developmental Biology or Molecular Microbiology or Essentials of Ecology</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>• Cellular and Molecular Neuroscience or Immunology or Behavioural Ecology</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>• Tutored Dissertation</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• Vertebrate Form and Evolution or Ecological Field Skills or Molecular and Cell Biology Skills or Computational ‘Omic</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>• iExplore ≠</td>
<td>5/7.5</td>
<td></td>
</tr>
<tr>
<td>• Second Year language component (Language for Science only: C1R1, C1R2, C1R4)</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td><strong>Total in Second Year (Biological Sciences, Microbiology, Ecol. &amp; Env. Biol.)</strong></td>
<td><strong>60/62.5</strong></td>
<td>65</td>
</tr>
<tr>
<td>Placement Year*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Reports (Language for Science: C1R1, C1R2, C1R4, C7R1, C7R2, C7R4, J7R1, J7R2, J7R4)</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>• Reports (Year in Industry/Research: C110, C1NF, C1NA, C7NF, C701, J702, C7NA, J7NF)</td>
<td></td>
<td>60</td>
</tr>
<tr>
<td>• Reports (Year in Research Abroad: C102, C702, J701)</td>
<td></td>
<td>60</td>
</tr>
<tr>
<td><strong>Total in Placement Year</strong></td>
<td><strong>60</strong></td>
<td><strong>60</strong></td>
</tr>
<tr>
<td>Third Year†</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Standard Third Year modules (each, x3)</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>• <strong>either</strong> Third Year Research Project</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>• or Science Communications plus Dissertation Project</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>• Third Year language component (Language for Science only: C1R1, C1R2, C1R4, C7R1, C7R2, C7R4, J7R1, J7R2, J7R4)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Total in Third Year</strong></td>
<td><strong>60</strong></td>
<td><strong>65</strong></td>
</tr>
<tr>
<td>Management Year‡</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total in Management Year</strong></td>
<td><strong>60</strong></td>
<td></td>
</tr>
</tbody>
</table>
* Placement Year overall is zero-weighted in all programmes that have one (C102, C110, C701, J702, C702, J701, C1R1, C1R2, C1R4, C7R1, C7R2, C7R4, J7R1, J7R2, J7R4).

† Third Year of study within the Department of Life Sciences: this is the Third Year for C100, C180, C1NG, C500, C700, C7NG, J700; and; the Fourth Year for C102, C110, C701, J7N2, J701, J702, C702, C1R1, C1R2, C1R4, C1R4, C7R1, C7R2, C7R4, J7R1, J7R2, J7R4; and not applicable for C1N2, C7N2

‡ For those joint programmes with Management that have one (C1N2, C1NG, C7N2, C7NG, J7N2).

≠ iExplore modules need to be passed and the ECTS will be awarded, however they will not be part of degree classification calculation.
1.2.3. Discontinued or Radically Changed Modules

In any strongly research-led degree programme, it is natural that modules may change radically or be discontinued. Because of examination failures or mitigating circumstances, it is possible that not all students will successfully complete a module when it is last run in its existing form. When a module is run and examined for the last time before it is discontinued or changed radically, students who have not yet completed it successfully have the right to take resit examinations with comparable examination papers wherever possible (up to the normal limit of a total of three attempts that are not subject to mitigating circumstances; see section 1.3.4). We will endeavour to accommodate students for whom mitigating circumstances have prevented successful completion of the module (see section 1.3.5) for up to two years after the module is discontinued, wherever possible. However, if such students have not been able to complete the module successfully within two years, they may have to choose a suitable alternative module. Exceptionally, where comparability of future papers or their marking cannot be guaranteed, the Board of Examiners can recommend that students who have narrowly failed a module be deemed to have passed; such a recommendation is at the discretion of the Board of Examiners and requires approval of an External Examiner.

1.2.4. Years of Study and Year Weightings

A student’s final degree mark is the weighted mean of the mean percentage total marks scored in their Years of study. Note that some Years of study do not contribute to the final degree mark.

1.2.4.1. Year Weightings

The Year weightings are tabulated below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Duration</th>
<th>Year weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>C700</td>
<td>BSc Biochemistry</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>C7N2</td>
<td>BSc Biochemistry with Management</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>C7NG</td>
<td>BSc Biochemistry with Management</td>
<td>4 years</td>
<td>6:16:29:29</td>
</tr>
<tr>
<td>C702</td>
<td>BSc Biochemistry with Research Abroad</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C701</td>
<td>BSc Biochemistry with a Year in Industry/Research</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>J700</td>
<td>BSc Biotechnology</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>J7N2</td>
<td>BSc Biotechnology with Management</td>
<td>4 years</td>
<td>6:16:29:29</td>
</tr>
<tr>
<td>J701</td>
<td>BSc Biotechnology with Research Abroad</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>J702</td>
<td>BSc Biotechnology with a Year in Industry/Research</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C7R1</td>
<td>BSc Biochemistry with French for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C7R2</td>
<td>BSc Biochemistry with German for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C7R4</td>
<td>BSc Biochemistry with Spanish for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>J7R1</td>
<td>BSc Biotechnology with French for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>J7R2</td>
<td>BSc Biotechnology with German for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>J7R4</td>
<td>BSc Biotechnology with Spanish for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C100</td>
<td>BSc Biological Sciences</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>C1N2</td>
<td>BSc Biological Sciences with Management</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>C1NG</td>
<td>BSc Biological Sciences with Management</td>
<td>4 years</td>
<td>6:16:29:29</td>
</tr>
<tr>
<td>C102</td>
<td>BSc Biological Sciences with Research Abroad</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C110</td>
<td>BSc Biological Sciences with a Year in Industry/Research</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C180</td>
<td>BSc Ecology and Environmental Biology</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>C500</td>
<td>BSc Microbiology</td>
<td>3 years</td>
<td>3:14:23</td>
</tr>
<tr>
<td>C1R1</td>
<td>BSc Biological Sciences with French for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C1R2</td>
<td>BSc Biological Sciences with German for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
<tr>
<td>C1R4</td>
<td>BSc Biological Sciences with Spanish for Science</td>
<td>4 years</td>
<td>3:14:0:23</td>
</tr>
</tbody>
</table>

Students cannot enter directly into the Second Year of C1N2 Biological Sciences with Management (3-year), C7N2 BSc Biochemistry with Management (3-year) or C1R1/C1R2/C1R4/C7R1/C7R2/C7R4/J7R1/J7R2/J7R4 Biological Sciences/Biochemistry/Biotechnology with French/German/Spanish for Science. The weighting of Years for students entering directly into the Second Year onwards will be those of the programme they enter, with the year weights rescaled to sum to 1.
3:14:23 is equivalent to 7.5% : 35% : 57.5%
6:16:29:29 is equivalent to 7.5% : 20% : 36.25% : 36.25%
1.2.5. Class Boundaries

1.2.5.1. Class Boundaries
The pass mark is 40%. Students must additionally obtain a minimum of 35% for both the examination and coursework components of a module to pass. The final degree mark will be used to classify BSc Honours degrees according to the following notional boundaries:

<table>
<thead>
<tr>
<th>Class</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>First class</td>
<td>70-100%</td>
</tr>
<tr>
<td>Upper second class (2A or 2:1)</td>
<td>60-69%</td>
</tr>
<tr>
<td>Lower second class (2B or 2:2)</td>
<td>50-59%</td>
</tr>
<tr>
<td>Third class</td>
<td>40-49%</td>
</tr>
<tr>
<td>Fail</td>
<td>0-39%</td>
</tr>
</tbody>
</table>

1.2.6. Aegrotat Degree Provisions
A student who is unable to complete their Final Year exams because of mitigating circumstances, may be considered for a degree under Aegrotat Degree provisions, as follows:

- If the student has satisfied the requirements for the degree, they may be awarded a normal, classified degree,
- or
- If the student is effectively prevented from satisfying these provisions, they may apply to the Board to be recommended for an Aegrotat Degree in lieu of resitting the relevant exams the following year; such an Aegrotat Degree is then normally awarded without classification.

1.2.7 Posthumous Award Provisions
A Posthumous Award may be made to a student who has died before completing the full period of study or the requirements for an award. A Posthumous Award may be conferred at the discretion of the Board of Examiners.

1.3. Assessment of Performance

1.3.1. Taught Modules
Most modules of the Life Sciences programmes are assessed by a combination of a written examination (weighted between 60% and 75%) and coursework, consisting of assessed essays, reports, practical class write-ups and other assignments (weighted between 25% and 40%). However, modules taken in the Summer term of year 2 will be examined by coursework only. The Final Year field module is examined by a written examination (33%), and coursework (67%). The Final Year Science Communication module will be examined wholly by coursework. The Second Year Tutored Dissertation is assessed by coursework only. The Final Year Research Project and Dissertation Project are assessed as given in Section 1.3.3.

Modules taken for iExplore may be weighted differently.

1.3.2. Coursework
Receipt of marks for assessed coursework is absolutely dependent upon the student delivering the work by the stated deadlines (making due allowance for mitigating circumstances). Marks for assessed practical class reports can be gained only by students who attend and perform the relevant practical work. Similarly, marks for other assessed work, such as in-module tests and Team-based learning assessment, can only be gained by students who attend and participate in the relevant activities.

1.3.2.1. Penalties for Late Coursework Submission
Work submitted up to one (1) day after the assessment deadline (date and time) will be marked but capped at the pass mark. Work submitted more than one (1) day late will not be accepted as a valid attempt and a mark of zero will be recorded. For the final year project report, the penalty is 1% per hour with a maximum penalty of 5% per day.
For items where multiple submissions are required (e.g. a hard-copy and an electronic copy), penalties will usually apply unless all the required items have been submitted.

1.3.2.2. Penalties for Plagiarised Coursework or Exams

Work submitted for marking may be checked for plagiarism by software and/or by the markers. Any plagiarism brought to light will be dealt with as per the College Academic Misconduct procedure.

1.3.2.3. Penalties for Absence from Tutorials and Practicals

For students who fail to attend scheduled practicals, tutorials, and other timetable assessed coursework sessions without valid mitigating circumstances, we reserve the right to award a mark of zero or cap the mark at the pass mark for the coursework item affected.

1.3.3. Final Year Research Project or Dissertation Project

The supervisor will complete a report on the student’s performance during the project and provide a mark for this performance. The written report and a poster (for laboratory projects only) are marked independently by the project supervisor and two other examiners. The examiners will also assess the student by viva voce, where students will give a powerpoint presentation summarizing their project lasting 10-15 minutes and after this be prepared to answer questions of a general biochemical and/or biological sciences nature as well as specific ones about the project. Each examiner must produce a written justification of their marks.

For the Research Project, the final mark is determined from the following weighted components:

- Online or printed poster: 10%
- First independent internal examiners’ assessment of the written report: 27.5%
- Second independent internal examiners’ assessment of the written report: 27.5%
- Presentation & viva assessment: 20% (10% each)
- Supervisor assessment of written report & lab performance: 15%

For the Dissertation Project, the final mark is determined from the following weighted components:

- First independent internal examiners’ assessment of the written report: 30%
- Second independent internal examiners’ assessment of the written report: 30%
- Presentation & viva assessment: 25% (12.5% each)
- Supervisor assessment of the written report: 15%

Project marks will be moderated by a sub-board of the Board of Examiners, who can require a project to be marked independently by an additional member of staff. Any revised mark must be agreed by the Chair of the Board of Examiners.

1.3.4. Resit Examinations

A student who fails a module may be reassessed for it in the following ways:

1.3.4.1. Failed Examinations

For core modules, if the examination mark is below the minimum required (see 1.2.5.1), and the module failed overall, the student is entitled to resit the written examination the next two times it is offered. Normally the first opportunity will be immediately before the start of the next academic year for First Year or Second Year exams. Only a pass mark may then be gained for the module (though exceptions may be made if failure is deemed due to serious mitigating circumstances). For Final Year exams, students with mitigating circumstances (Section 1.3.5) may retake exams in the following academic year, when Final Year exams are next set. Students still failing three or more modules in the First or Second Years after the first resit examinations will normally be asked to consider withdrawing from the degree programme.

For compulsory and elective modules (see Appendix A) a compensated pass may be awarded by the Examination Board where the student has achieved a marginal failure. Where a student has achieved an aggregate module result of 30.00-39.99 inclusive the Examination Board can, at its discretion, offer a compensated pass. Compensated passes can be awarded for up to a maximum of 15 ECTS credits per credit year.
1.3.4.2. Failed Coursework
A student who has attended most of a module but does not complete the coursework component because of mitigating circumstances will normally be allowed to resubmit the coursework by a new deadline, or, if a reasonable proportion of the coursework has been completed, the mark may be scaled up proportionately at the discretion of the Chair of the Board of Examiners.

If the coursework mark for the module is below the minimum required, and the module failed overall, without mitigating circumstances being presented, the normal consequence is to fail the module. Substitute work may be set at the discretion of the Chair of the Board of Examiners, but only a pass mark for the module may then be gained. Students may not normally resubmit coursework items that they have already submitted. For the Tutored Dissertation, a student failing to pass may be set a resit dissertation on a different topic to be completed during the summer term of the Second Year, again capped at the pass mark.

1.3.4.3 Field Modules
Those field modules that run during the summer holiday or at the beginning of autumn term (Third Year African Biology Field Module) contribute to the Third Year’s credit. However, under College regulations, it is not possible for a student to progress to the following Year until the Board of Examiners has approved the previous Year’s marks. Therefore, students take these Third Year field modules subject to the following regulations:

- Students who find that they have not qualified to progress to the following Year whilst already on the field module must continue to write up all coursework in the same way (and to the same deadline) as the students who are qualified, but they defer any credit for 12 months, and will not take the field module exam (for the field modules with such exams) in the January following the field module, but will (if qualified) take the exam 12 months later.

- Students may choose to leave a field module at any time, but in this case, any costs incurred by the student will not be reimbursed and they will not normally be allowed to retake the field module at a later date.

1.3.5. Mitigating Circumstances
Sometimes during your studies your assessments, or attendance, may be affected by sudden or unforeseen circumstances. If this happens at the time of, or immediately preceding assessments you may be able to make a claim for mitigating circumstances. If successful this claim enables the Board of Examiners, when reviewing your marks at the end of the year, to have greater discretion with regards to offering repeat attempts (either capped or uncapped), a repeat year, or with your progression or final classification. Please note, the Board is not permitted to add marks to those you have already achieved. All claims must be supported by independent evidence and submitted within 5 working days of the assessment deadline. Any claim made after this deadline is likely to be rejected unless there is a good reason (such as you were still unwell) until the point of submitting the claim.

If you are experiencing a medical issue that is impacting on assessments/deadlines/examinations you will need a medical note from an NHS recognised medical practitioner as evidence. For missed sessions of a short duration (Lab/Tutorial/Workshops etc) you must still fill in a mitigating circumstances form, but instead of requiring a formal medical note, you can apply to ‘self certify’ using this in addition to the mitigating circumstances form.

Through this procedure you may also be able to request an extension to the deadline for some forms of assessment. This must be requested before the deadline, in a timely fashion with an appropriate medical note.

For examinations, if you think you will be unable to attend an examination for medical or another valid reason, or you miss part of an examination through illness, you must ensure that the Life Sciences Education Office is informed immediately. Documentary evidence of the reason for absence must be provided within one week of the examination (see under section ‘Mitigating Circumstances and Exams- Illness and Absence During and Prior to Examinations’). You cannot Self Certify for examinations.

In recent years, there have been a small number of instances where a student has performed badly in exams, and/or has been asked to withdraw. Subsequently, the student has appealed to the College on the grounds that there were...
mitigating circumstances of which the Board of Examiners was unaware. Such retrospective submission of mitigating circumstances has been accepted only in those few cases where very strong, reasonable, and compelling grounds were presented by the student to explain why these circumstances had not been presented before the affected exams or modules were taken.

Rest assured that all information you submit about mitigating circumstances is treated with the utmost confidentiality.

1.3.6. Degree Classification Moderation

1.3.6.1. Moderation Zone

Normally, students with an overall mark up to and including 2% below the threshold mark for each degree class are considered for moderation. The criteria for moderation of degree classifications reflect our view that there are a range of reasons why borderline students may deserve to be promoted to the higher classification. These criteria replace the previous system whereby borderline students were assessed by an external examiner in a viva voce exam (though the Board of Examiners retains the right to request such an exam in exceptional circumstances).

1.3.6.2. Criteria for Moderation for Life Sciences degrees (other than those "with Management")

The criteria are applied to final-year marks and apply only to those students whose Final Year is taken within the Department of Life Sciences. For these criteria, “Project” means either (i) a Research Project, or (ii) the weighted combination of a Dissertation Project and the Science Communication module. “Final Year scientific modules” are all modules except Science Communication.

• **A First Class Honours degree** is awarded to students who do not satisfy the criteria for a First Class Honours degree but who nonetheless have:
  - **Passed all modules and their Research Project or Dissertation Project; and**
    - **either** attained a weighted average mark across all Years of at least 69.5% (which is rounded to 70%);
    - **or** achieved a weighted average mark across all Years of at least 68% and demonstrated their worthiness for a First Class degree by meeting one or more of the following criteria:
      - At least half of Final Year exam question marks are First Class
      - A Final Year Project mark of at least 80%
      - A weighted mark for the Final Year of at least 72%
      - Overall marks of at least 70.00% for all three Final Year scientific modules
      - At least one third of Final Year exam questions show mastery (i.e. marks exceeding 80%)

• **A 2A Honours degree** is awarded to students who do not satisfy the criteria for a 2A Honours degree but who nonetheless have:
  - **Passed all modules and their Research Project or Dissertation Project; and**
    - **either** attained a weighted average mark across all Years of at least 59.5% (which is rounded to 60%);
    - **or** achieved a weighted average mark across all Years of at least 58% and demonstrated their worthiness for a 2A degree by meeting one or more of the following criteria:
      - At least half of Final Year exam question marks are 2A standard or higher
      - A Final Year Project mark of at least 70%
      - A weighted mark for the Final Year of at least 62%
      - Overall marks of at least 60.00% for all three Final Year scientific modules
      - At least one third of Final Year exam answers receive First Class marks

• **A 2B Honours degree** is awarded to students who do not satisfy the criteria for a 2B Honours degree but who nonetheless have:
  - **Passed all modules and their Research Project or Dissertation Project; and**
    - **either** attained a weighted average mark across all Years of at least 49.5% (which is rounded to 50%);
    - **or** achieved a weighted average mark across all Years of at least 48% and demonstrated their worthiness for a 2B degree by meeting one or more of the following criteria:
      - At least half of Final Year exam question marks are 2B standard or higher
      - A Final Year Project mark of at least 60%
c. A weighted mark for the Final Year of at least 52%
d. Overall marks of at least 50.00% for all three Final Year scientific modules
e. At least one third of Final Year exam answers receive 2A or First Class marks

• **A Third Class Honours degree** is awarded to students who do not satisfy the criteria for a Third Class Honours degree but who nonetheless have:
  o Passed all modules and their Research Project or Dissertation Project; and
    ▪ **either** attained a weighted average mark across all Years of at least 39.5% (which is rounded to 40%);
    ▪ **or** achieved a weighted average mark across all Years of at least 38% and demonstrated their worthiness for a Third Class degree by meeting one or more of the following criteria:
      a. At least half of Final Year exam question marks are Third Class or higher
      b. A Final Year Project mark of at least 50%
      c. A weighted mark for the Final Year of at least 42%
      d. Overall marks of at least 40.00% for all three Final Year scientific modules
      e. At least one third of Final Year exam answers receive 2B or higher marks

**1.3.6.3. Criteria for Moderation for Life Sciences degrees “with Management”**

These criteria apply only to those students whose Final Year is taken within the Business School. For these criteria, “Project” means either (i) a Research Project, or (ii) the weighted combination of a Dissertation Project and the Science Communication module. There are three categories of students to consider:

- Students on a borderline where high performance in the year in the Business School could be used as evidence for promotion (3 and 4 year “with Management” courses)
- Students on a borderline where high performance in the scientific component of their course could be used as evidence for promotion (3 year “with Management” courses)
- Students on a borderline where high performance in the scientific component of their course could be used as evidence for promotion (4 year “with Management” courses)

In all cases students on the pass/fail borderline will be dealt with by the departmental exam board procedures that apply to all students in such cases.

**1.3.6.3.1. Students on a borderline with relatively high performance in the year in the Business School (3 and 4 year “with Management” courses)**

• **A First Class Honours degree** is awarded to students who have:
  o Passed all modules and their Research Project or Dissertation Project (where applicable); and
    ▪ **either** attained a weighted average mark across all Years of at least 69.5% (which is rounded to 70%);
    ▪ **or** achieved a weighted average mark across all Years of at least 68% and demonstrated their worthiness for a First Class degree by meeting one or more of the following criteria:
      a. A weighted mark for the Management Year of at least 75%
      b. Overall marks of at least 70% for at least 8 out of 10 Management Year modules
      c. At least 4 out of 10 of Management Year module results show mastery (**i.e.** marks exceeding 80%)

• **A 2A Honours degree** is awarded to students who have:
  o Passed all modules and their Research Project or Dissertation Project (where applicable); and
    ▪ **either** attained a weighted average mark across all Years of at least 59.5% (which is rounded to 60%);
    ▪ **or** achieved a weighted average mark across all Years of at least 58% and demonstrated their worthiness for a 2A Class degree by meeting one or more of the following criteria:
      a. A weighted mark for the Management Year of at least 65%
      b. Overall marks of at least 60% for at least 8 out of 10 Management Year modules
      c. At least 4 out of 10 of Management Year module results are first class
• A 2B Honours degree is awarded to students who have:
  o Passed all modules and their Research Project or Dissertation Project (where applicable); and
    ▪ either attained a weighted average mark across all Years of at least 49.5% (which is rounded to 50%);
    ▪ or achieved a weighted average mark across all Years of at least 48% and demonstrated their worthiness for a 2B Class degree by meeting one or more of the following criteria:
      a. A weighted mark for the Management Year of at least 55%
      b. Overall marks of at least 50% for at least 8 out of 10 Management Year modules
      c. At least 4 out of 10 of Management Year module results are 2A or better

1.3.6.3.2. Students on a borderline with relatively high performance in the scientific component of their degree (3 year "with Management" courses)

• A First class Honours degree is awarded to students who do not satisfy the criteria for a First Class Honours degree but who nonetheless have:
  o Passed all modules; and
    ▪ either attained a weighted average mark across all Years of at least 69.5% (which is rounded to 70%);
    ▪ or achieved a weighted average mark across all Years of at least 68% and an overall weighted mark of at least 68% for the first two years of the degree and demonstrated their worthiness for a 1st class degree by meeting one or more of the following criteria:
      a. At least half of Second Year exam essay answers are 1st class standard or higher
      b. A weighted mark for the Second Year of at least 75%
      c. Overall marks of at least 70.00% for at least 4 out of 5 Second Year taught modules (not including the Tutored Dissertation)
      d. At least one third of Second Year exam essay answers show mastery (i.e. marks exceeding 80%)

• A 2A Honours degree is awarded to students who do not satisfy the criteria for a 2A Honours degree but who nonetheless have:
  o Passed all modules; and
    ▪ either attained a weighted average mark across all Years of at least 59.5% (which is rounded to 60%);
    ▪ or achieved a weighted average mark across all Years of at least 58% and an overall weighted mark of at least 58% for the first two years of the degree and demonstrated their worthiness for a 2A degree by meeting one or more of the following criteria:
      a. At least half of Second Year exam essay answers are 2A standard or higher
      b. A weighted mark for the Second Year of at least 65%
      c. Overall marks of at least 60.00% for at least 4 out of 5 Second Year taught modules (not including the Tutored Dissertation)
      d. At least one third of Second Year exam essay answers receive First Class marks

• A 2B Honours degree is awarded to students who do not satisfy the criteria for a 2B Honours degree but who nonetheless have:
  o Passed all modules; and
    ▪ either attained a weighted average mark across all Years of at least 49.5% (which is rounded to 50%);
    ▪ or achieved a weighted average mark across all Years of at least 48% and an overall weighted mark of at least 48% for the first two years of the degree and demonstrated their worthiness for a 2B degree by meeting one or more of the following criteria:
      a. At least half of Second Year exam essay answers are 2B standard or higher
      b. A weighted mark for the Second Year of at least 55%
      c. Overall marks of at least 50.00% for at least 4 out of 5 Second Year taught modules (not including the Tutored Dissertation)
      d. At least one third of Second Year exam essay answers receive 2A or higher marks
1.3.6.3.3. Students on a borderline with relatively high performance in the scientific component of their degree (4 year "with Management" modules)

- A First Class Honours degree is awarded to students who do not satisfy the criteria for a First Class Honours degree but who nonetheless have:
  - Passed all modules and their Research Project or Dissertation Project; and
  - either attained a weighted average mark across all Years of at least 69.5% (which is rounded to 70%);
  - or achieved a weighted average mark across all Years of at least 68% and an overall weighted mark of at least 68% for the first three years of the degree and demonstrated their worthiness for a First Class degree by meeting one or more of the following criteria:
    a. At least half of Third Year exam question marks are First Class
    b. A Third Year Project mark of at least 80%
    c. A weighted mark for the Third Year of at least 72%
    d. Overall marks of at least 70.00% for all three Third Year scientific modules
    e. At least one third of Third Year exam questions show mastery (i.e. marks exceeding 80%)

- A 2A Honours degree is awarded to students who do not satisfy the criteria for a 2A Honours degree but who nonetheless have:
  - Passed all modules and their Research Project or Dissertation Project; and
  - either attained a weighted average mark across all Years of at least 59.5% (which is rounded to 60%);
  - or achieved a weighted average mark across all Years of at least 58% and an overall weighted mark of at least 58% for the first three years of the degree and demonstrated their worthiness for a 2A degree by meeting one or more of the following criteria:
    a. At least half of Third Year exam question marks are 2A standard or higher
    b. A Third Year Project mark of at least 70%
    c. A weighted mark for the Third Year of at least 62%
    d. Overall marks of at least 60.00% for at all three Third Year scientific modules
    e. At least one third of Third Year exam answers receive First Class marks

- A 2B Honours degree is awarded to students who do not satisfy the criteria for a 2B Honours degree but who nonetheless have:
  - Passed all modules and their Research Project or Dissertation Project; and
  - either attained a weighted average mark across all Years of at least 49.5% (which is rounded to 50%);
  - or achieved a weighted average mark across all Years of at least 48% and an overall weighted mark of at least 48% for the first three years of the degree and demonstrated their worthiness for a 2B degree by meeting one or more of the following criteria:
    a. At least half of Third Year exam question marks are 2B standard or higher
    b. A Third Year Project mark of at least 60%
    c. A weighted mark for the Third Year of at least 52%
    d. Overall marks of at least 50.00% for all three third Year scientific modules
    e. At least one third of Third Year exam answers receive 2A or First Class marks

2. Details for Biochemistry/Biotechnology Courses

The list of approved modules for each degree programme (Appendix A) may be subject to revision each academic year, but students will then be allowed to take an approved alternative without prejudicing their degree. The module requirements listed below are for the 2021-22 academic year.

2.1. C700 Biochemistry (3-year)

The student’s choice of modules should normally be approved by their Personal Tutor. Requirements for this programme are as follows:
2.1.1. First Year
In the First Year, the student must take:

- The four compulsory First Year modules from the Biochemistry syllabus.

2.1.2. Second Year
In the Second Year, the student must take:

- Structural Biology
- Genes and Genomics
- Bioinformatics, Programming and Statistics (Biochemistry)
- Protein Science
- Integrative Cell Biology
- The Tutored Dissertation
- One elective in the Summer term
- iExplore

2.1.3. Third Year
In the Third Year, the student must:

- Take three consecutive approved Third Year modules from the Life Sciences syllabus.
- either (a) Conduct an individual supervised experimental, data analysis or theory-based Research Project on any approved topic, written up in dissertation format;
- or (b) Science Communications plus Dissertation Project.

2.2. J700 Biotechnology (3-year)
To qualify for a degree title that includes Biotechnology, candidates are required to take the Topics in Biotechnology module in the second year and a combination of final year modules with a high biotechnology content in the final year. An estimate of this content is given for each module by the number in parentheses in Appendix A. The total for the three modules taken should normally be at least 8.

2.2.1. First Year
In the First Year, the student must take:

- The four compulsory First Year modules from the Biochemistry/Biotechnology syllabus.

2.2.2. Second Year
In the Second Year, the student must take:

- Structural Biology
- Genes and Genomics
- Bioinformatics, Programming and Statistics
- Protein Science
- Integrative Cell Biology
- The Tutored Dissertation
- Topics in Biotechnology
- iExplore

2.2.3. Third Year
In the Third Year, the student must:

- Take three consecutive approved Third Year modules from the Life Sciences syllabus with a combined biotechnology content of 8 (as specified in Appendix A).
- either (a) Conduct an individual supervised experimental, data analysis or theory-based Research Project on any approved topic, written up in dissertation format;
- or (b) Science Communications plus Dissertation Project.
2.3. C701 and J702 Biochemistry/Biotechnology with a Year in Industry/Research (4-year)

Conditions for the First and Second Years are the same as for C700 Biochemistry (Sections 2.1.1 and 2.1.2) or J700 Biotechnology (2.2.1 and 2.2.2). Conditions for the Fourth Year are the same as those for the Third Year of C700 Biochemistry (Section 2.1.3) or J700 Biotechnology (2.2.3). Before the student will be allowed to proceed to the Placement Year, they must satisfy the Department of Life Sciences that they have achieved a good standard in their First and Second Year modules (usually ≥ 60%).

2.3.1. Placement Year

The student should make their Placement Year arrangements in discussion with the Year in Industry/Research Coordinator. Progress to the Placement Year (Third Year of study) is contingent on fulfilling the academic requirement of the First and Second Years. Acceptance for/commencement on a placement is not an alternative to this requirement. In the Placement Year, the student will spend a total of 10-12 months working on an industrial placement. The Placement Year will be assessed as follows:

- The student must write a Placement Report and be examined by a viva on the industrial placement(s) (report to viva weighting 2:1), and achieve a pass mark on aggregate across the two components to progress to the Fourth Year. This mark will not count towards the final degree, but 60 ECTS will be credited for the Placement Year overall.
- Failure by the student to obtain a placement which meets the Department’s standards, or to complete the industrial placement, or to complete the report, or to achieve a pass mark on the assessment, will require the student to transfer to a 3-year Biochemistry or Biotechnology programme.

2.4. C702 and J701 Biochemistry/Biotechnology with Research Abroad (4-year)

Conditions for the First and Second Years are the same as for C700 Biochemistry (Sections 2.1.1 and 2.1.2) or J700 Biotechnology (2.2.1 and 2.2.2) with the additional requirement that during the Second Year the student will normally take appropriate language tuition as their Horizons option (unless they are assessed as already fluent in that language). Before the student will be allowed to proceed to the Placement Year abroad (Third Year of study), they must satisfy the Centre for Languages, Culture and Communication that they have reached the necessary standard in the language, and must satisfy the Department of Life Sciences that they have achieved a good standard in their First and Second Year modules (usually ≥ 60%). Conditions for the Fourth Year are the same as those for the Third Year of C700 Biochemistry (Section 2.1.3) or J700 Biotechnology (2.2.3).

2.4.1. Placement Year

The student should make their Placement Year arrangements in discussion with the Year in Research Abroad Coordinator. The Placement Year (Third Year of study) will be spent conducting a research project in an approved Life Sciences department in a University in another European country. The Placement Year will be assessed as follows:

- The student will write two reports:
  - The Scientific Report (consisting of a Research Proposal (6 ECTS) and a Research Report (44 ECTS)) on the scientific aspect of the placement.
  - The Cultural Report (10 ECTS) on another aspect of the year abroad.
- Both reports must be written in English, but must also include a summary written in the language of the host country. The student must achieve pass marks for these reports in order to proceed to the Fourth Year. This mark will not count towards the final degree.
- If the student fails this dual assessment, they will be required to transfer to a 3-year Biochemistry or Biotechnology programme.

2.5. C7N2 Biochemistry with Management (3-year)

Conditions for the First and Second Years are the same as for C700 Biochemistry (Sections 2.1.1 and 2.1.2), with the additional requirement that a Management module should not be taken in the Second Year.
2.5.1. Management Year
The Third Year must be spent in the Business School at Imperial College London taking approved modules from the Business School syllabus.

The degree class will be based on the weightings given in Section 1.2.4, with the proviso that the final Joint Honours class awarded should not be more than one degree class above that achieved in either the Department of Life Sciences component or the Business School component separately.

Third Year marks will be assessed by a Business School Board of Examiners including Business School external examiners. The final degree will be assessed and the class awarded will be agreed by the Biological Sciences with Management Joint Honours Examination Board consisting of senior members of the Biological Sciences Board of Examiners, including one Biological Sciences external examiner, and at least one representative of the Business School.

2.6. C7NG and J7N2 Biochemistry/Biotechnology with Management (4-year)
Conditions for the First, Second and Third Years are the same as for C700 Biochemistry (Sections 2.1.1, 2.1.2 and 2.1.3) or J700 Biotechnology (2.2.1, 2.2.2 and 2.2.3), with the additional requirement that a Management module should not be taken in the Second Year.

Conditions for the Management Year (Fourth Year of study) are the same as for the Management Year of C7N2 Biochemistry with Management (3-year) (Section 2.5.1).

2.7. C7R1 and J7R1 Biochemistry/Biotechnology with French for Science, C7R2 and J7R2 Biochemistry/Biotechnology with German for Science, and C7R4 and J7R4 Biochemistry/Biotechnology with Spanish for Science (4-year)
Conditions for the First and Second Years are the same as for C700 Biochemistry (Sections 2.1.1 and 2.1.2) or J700 Biotechnology (2.2.1 and 2.2.2), with the additional requirement that students also take Language modules within the Centre for Languages, Culture and Communication, with weightings as described in Section 1.2.2. Before the student will be allowed to proceed to the Placement Year abroad, they must satisfy the Centre for Languages, Culture and Communication that they have reached the necessary standard in the language, and must satisfy the Department of Life Sciences that they have achieved a good standard in their First and Second Year modules (usually ≥ 60%).

The conditions for the Placement Year (Third Year of study) and Scientific Report (50 ECTS) are the same as those for C702 and J701 Biochemistry/Biotechnology with Research Abroad (Section 2.4); however:

- The Cultural Report (10 ECTS) is written in French/German/Spanish, with an additional abstract in English. It is marked by staff from the Centre for Languages, Culture and Communication.

Conditions for the Fourth Year are identical to those specified for the Third Year of C700 Biochemistry (Section 2.1.3) or J700 Biotechnology (2.2.3) except that students also take a Language module in the Centre for Languages, Culture and Communication, with weightings as specified in Section 1.2.2.

3. Details for Biological Sciences/Ecology and Environmental Biology/ Microbiology Courses
The list of approved modules for each degree programme (Appendix A) may be subject to revision each academic year, but students will then be allowed to take an approved alternative without prejudicing their degree. The module requirements listed below are for the 2021-22 academic year. Students may take a maximum of one Third Year field module.
### 3.1. C100 Biological Sciences (3-year)

The student’s choice of modules should normally be approved by their Personal Tutor. Requirements for this programme are as follows:

#### 3.1.1. First Year

In the First Year, the student must take:

- The four compulsory First Year modules from the Biological Sciences syllabus.

#### 3.1.2. Second Year

In the Second Year, the student must take:

- Applied Molecular Biology
- Genetics
- Bioinformatics, Programming and Statistics
- Three consecutive approved Second Year modules from the Biological Sciences syllabus
- The Tutored Dissertation
- iExplore

#### 3.1.3. Third Year

In the Third Year, the student must:

- Take three consecutive approved Third Year modules from the Life Sciences syllabus.
- either (a) Conduct an individual supervised experimental, data analysis or theory-based Research Project on any approved topic, written up in dissertation format;
- or (b) Science Communications plus Dissertation Project.

### 3.2. C500 Microbiology (3-year)

Conditions are the same as for C100 Biological Sciences (Section 3.1), with the following additional requirements.

Second Year modules taken should normally include:

- Molecular Microbiology

Third Year modules taken should normally include:

- Medical Microbiology or Metabolic & Network Engineering
- Symbiosis, Plant Immunity and Disease or Advanced Topics in Infection and Immunity or Disease Ecology and Epidemiology
- Molecular Basis of Bacterial Infection or Synthetic Biology or Advanced Immunology or The Microbiome

A Microbiology-oriented Research Project or Dissertation Project should also be taken.

### 3.3. C180 Ecology and Environmental Biology (3-year)

Conditions are the same as for C100 Biological Sciences (Section 3.1), with the following additional requirements.

Second Year modules taken should normally include:

- Behavioural Ecology
- Essentials of Ecology
- Ecology Field Skills

Third Year modules should normally include:

- African Biology Field Module
- Symbiosis, Plant Immunity and Disease or Biodiversity and Conservation Biology or Disease Ecology and Epidemiology or Evolutionary Applications
- Biodiversity Genomics or Global Change Biology or The Microbiome

An ecological/environmental Research Project or Dissertation Project should also be taken.
3.4. C102 Biological Sciences with Research Abroad (4-year)

Conditions for the First and Second Years are the same as for C100 Biological Sciences (Sections 3.1.1 and 3.1.2) with the additional requirement that during the Second Year the student will normally take appropriate language tuition as their Horizons option (unless they are assessed as already fluent in that language). Before the student will be allowed to proceed to the Placement Year abroad (Third Year of study), they must satisfy the Centre for Languages, Culture and Communication that they have reached the necessary standard in the language, and must satisfy the Department of Life Sciences that they have achieved a good standard in their First and Second Year modules (usually ≥ 60%). Conditions for the Fourth Year are the same as those for the Third Year of C100 Biological Sciences (Section 3.1.3).

3.4.1. Placement Year

The student should make their Placement Year arrangements in discussion with the Year in Industry/Research Coordinator. The Placement Year (Third Year of study) will be spent conducting a research project and taking modules in an approved Life Sciences department in a University in another European country. The Placement Year will be assessed as follows:

- The student may take, but will not have to pass, the relevant exams of the host Department. The student must, however, satisfy their supervisor as to attendance and performance.
- The student will write two reports:
  - The Scientific Report (consisting of a Research Proposal (6 ECTS) and a Research Report (44 ECTS)) on the scientific aspect of the placement.
  - The Cultural Report (10 ECTS) on another aspect of the year abroad.
- Both reports must be written in English, but must also include a summary written in the language of the host country. The student must achieve pass marks for these reports in order to proceed to the Fourth Year. This mark will not count towards the final degree.
- If the student fails this dual assessment, they will be required to transfer to a 3-year Biological Sciences programme.

3.5. C110 Biological Sciences with a Year in Industry/Research (4-year)

Conditions for the First and Second Years are the same as for C100 Biological Sciences (Sections 3.1.1 and 3.1.2). Conditions for the Fourth Year are the same as those for the Third Year of C100 Biological Sciences (Section 3.1.3). Before the student will be allowed to proceed to the Placement Year, they must satisfy the Department of Life Sciences that they have achieved a good standard in their First and Second Year modules (usually ≥ 60%).

3.5.1. Placement Year

The student should make their Placement Year arrangements in discussion with the Year in Industry/Research Coordinator. Progress to the Placement Year (Third Year of study) is contingent on fulfilling the academic requirement of the First and Second Years. Acceptance for/commencement on a placement is not an alternative to this requirement. In the Placement Year, the student will spend a total of 10-12 months working on an industrial placement. The Placement Year will be assessed as follows:

- The student must write a Placement Report and be examined by a viva on the industrial placement(s) (report to viva weighting 2:1), and achieve a pass mark on aggregate across the two components to progress to the Fourth Year. This mark will not count towards the final degree, but 60 ECTS will be credited for the Placement Year overall.
- Failure by the student to obtain a placement which meets the Department’s standards, or to complete the industrial placement, or to complete the report, or to achieve a pass mark on the assessment, will require the student to transfer to a 3-year Biological Sciences programme.

3.6. C1N2 Biological Sciences with Management (3-year)

Conditions for the First and Second Years are the same as for C100 Biological Sciences (Sections 3.1.1 and 3.1.2), with the additional requirement that a Management module should not be taken in the Second Year.
3.6.1. Management Year
The Third Year must be spent in the Business School at Imperial College London taking approved modules from the Business School syllabus.

The degree class will be based on the weightings given in Section 1.2.4, with the proviso that the final Joint Honours class awarded should not be more than one degree class above that achieved in either the Department of Life Sciences component or the Business School component separately.

Third Year marks will be assessed by a Business School Board of Examiners including Business School external examiners. The final degree will be assessed and the class awarded will be agreed by the Biological Sciences with Management Joint Honours Examination Board consisting of senior members of the Biological Sciences Board of Examiners, including one Biological Sciences external examiner, and at least one representative of the Business School.

3.7. C1NG Biological Sciences with Management (4-year)
Conditions for the First, Second and Third Years are the same as for C100 Biological Sciences (Section 3.1), with the additional requirement that a Management module should not be taken in the Second Year.

Conditions for the Management Year (Fourth Year of study) are the same as for the Management Year of C1N2 Biological Sciences with Management (3-year) (Section 3.6.1).

3.8. C1R1 Biological Sciences with French for Science, C1R2 Biological Sciences with German for Science, and C1R4 Biological Sciences with Spanish for Science (4-year)
Conditions for the First and Second Years are the same as for C100 Biological Sciences (Sections 3.1.1 and 3.1.2), with the additional requirement that students also take Language modules within the Centre for Languages, Culture and Communication, with weightings as described in Section 1.2.2. Before the student will be allowed to proceed to the Placement Year abroad, they must satisfy the Centre for Languages, Culture and Communication that they have reached the necessary standard in the language, and must satisfy the Department of Life Sciences that they have achieved a good standard in their First and Second Year modules (usually ≥ 60%).

The conditions for the Placement Year (Third Year of study) and Scientific Report (50 ECTS) are the same as those for C102 Biological Sciences with a Year in Research Abroad (Section 2.4); however:

- The Cultural Report (10 ECTS) is written in French/German/Spanish, with an additional abstract in English. It is marked by staff from the Centre for Languages, Culture and Communication.

Conditions for the Fourth Year are identical to those specified for the Third Year of C100 Biological Sciences (Section 3.1.3) except that students also take a Language module in the Centre for Languages, Culture and Communication, with weightings as specified in Section 1.2.2.
### Appendix A

#### Biochemistry/Biotechnology Degrees Year 1

<table>
<thead>
<tr>
<th>Year of Module</th>
<th>Module Element</th>
<th>Core/Compulsory /Elective</th>
<th>Total Hours spent on Element</th>
<th>ECTS Allocation</th>
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<tbody>
<tr>
<td>1</td>
<td>Biological Chemistry</td>
<td>Core</td>
<td>375</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>Cell Biology</td>
<td>Core</td>
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<td>15</td>
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<tr>
<td></td>
<td>Enzymes and Metabolism</td>
<td>Core</td>
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<td>15</td>
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<tr>
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<td>Molecular Biology</td>
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#### Biological Sciences/ Ecology and Environmental Biology/ Microbiology Degrees Year 1

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<th>Module Element</th>
<th>Core/Compulsory /Elective</th>
<th>Total Hours spent on Element</th>
<th>ECTS Allocation</th>
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<tr>
<td></td>
<td>Ecology and Evolution</td>
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</tr>
<tr>
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### Biochemistry/Biotechnology Degrees Year 2

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<td>2</td>
<td>Genes and Genomics</td>
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<tr>
<td>2</td>
<td>Biinformatics, Programming and Statistics</td>
<td>Core</td>
<td>125</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Tutored Dissertation</td>
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<td>187.5</td>
<td>7.5</td>
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<td>Protein Science</td>
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<td>Integrative Cell Biology</td>
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<td>Topics in Biotechnology</td>
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<td>Compulsory</td>
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### Biological Sciences/Ecology and Environmental Biology/Microbiology Degrees Year 2

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<td>2</td>
<td>Genetics</td>
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<td>Bioinformatics, Programming and Statistics</td>
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<tr>
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<td>Cell and Developmental Biology</td>
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<td>Molecular Microbiology</td>
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<tr>
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<td>Essentials of Ecology</td>
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<td>Cellular and Molecular Neuroscience</td>
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<td>Immunology</td>
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<tr>
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<td>Behavioural Ecology</td>
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<td>Vertebrate Form and Evolution</td>
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<tr>
<td>2</td>
<td>Ecological Field Skills</td>
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<tr>
<td>2</td>
<td>Molecular and Cell Biology Skills</td>
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<td>Computational ‘Omics</td>
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<td>iExplore</td>
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<td>5/7.5</td>
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<tr>
<td>2</td>
<td>Language module &amp; History of Science</td>
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<th>Degree Stream</th>
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### All Degrees Year 3 or 4*

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<td>Mechanisms of Gene Expression (3)</td>
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<td>Stem Cells, Regeneration &amp; Ageing (1)</td>
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<tr>
<td>3</td>
<td>Metabolic &amp; Network Engineering (5)</td>
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<td>Evolutionary Applications (1)</td>
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<td>Systems Neuroscience: Exploring the Brain in Health &amp; Disease (1)</td>
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<td>Bio/Micro/Ecol</td>
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</table>

*The presence of a module in this table is no guarantee it will run in any given academic year. Final year modules are designed around the Department of Life Sciences’ research expertise and so depending on the availability of suitably expert academic staff, some modules may be removed from the programme and others added. Final year modules have capped numbers and so we cannot guarantee a student will get a place on a particular module.*