Programme Specification

This programme specification is relevant to students entering:
17 September 2018

Associate Dean of School (Academic Quality Assurance):
Stefanie Schmeer

Summary of amendments to the programme:

<table>
<thead>
<tr>
<th>Section</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progression requirements</td>
<td>satisfactory personal statement essential on selected routes</td>
</tr>
<tr>
<td>Raised progression tariff</td>
<td>Biomedical Sciences, Biochemistry, Molecular Biology</td>
</tr>
</tbody>
</table>

If you have any queries regarding the changes please email AQO@herts.ac.uk
Programme Specification

BSc Extended Degree in Science Initial Year

This programme specification (PS) is designed for prospective students, enrolled students, academic staff and potential employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the teaching, learning and assessment methods, learning outcomes and content for each module can be found in Definitive Module Documents (DMDs) and Module Guides.

Section 1

<table>
<thead>
<tr>
<th>Awarding Institution/Body</th>
<th>University of Hertfordshire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Institution 1</td>
<td>North Hertfordshire College (NHC)</td>
</tr>
<tr>
<td>University/partner campuses</td>
<td>Stevenage</td>
</tr>
<tr>
<td>Teaching Institution 2</td>
<td>West Herts College (WHC):</td>
</tr>
<tr>
<td>Note:</td>
<td>*Physical Sciences – suspended for September 2018 entry</td>
</tr>
<tr>
<td></td>
<td>*Mathematics – suspended for September 2018 entry</td>
</tr>
<tr>
<td>University/partner campuses</td>
<td>Watford</td>
</tr>
<tr>
<td>Teaching Institution 3</td>
<td>Hertford Regional College (HRC)</td>
</tr>
<tr>
<td>University/partner campuses</td>
<td>Broxbourne</td>
</tr>
<tr>
<td>Teaching Institution 4</td>
<td>Oaklands College (OAK):</td>
</tr>
<tr>
<td>Note:</td>
<td>*Physical Sciences – suspended for September 2018 entry</td>
</tr>
<tr>
<td></td>
<td>*Mathematics – suspended for September 2018 entry</td>
</tr>
<tr>
<td>University/partner campuses</td>
<td>Welwyn Garden City</td>
</tr>
<tr>
<td>Final Qualification</td>
<td>Not applicable</td>
</tr>
<tr>
<td>All Final Award titles</td>
<td>Not applicable</td>
</tr>
<tr>
<td>(Qualification and Subject)</td>
<td></td>
</tr>
<tr>
<td>FHEQ level of award</td>
<td>3</td>
</tr>
<tr>
<td>UCAS code(s)</td>
<td>B900, B902, F900, G101</td>
</tr>
<tr>
<td>Language of Delivery</td>
<td>English</td>
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A. Programme Rationale

The BSc Extended Degree in Science Initial Year programme is designed to offer alternative entry into a range of science degree programmes at the University of Hertfordshire. It offers a good grounding in biology, chemistry, physics and mathematics and provides options that enable a student to prepare in more specialized areas of science relevant to their progression choice.

The Extended Degree in Science Initial Year is managed and delivered by North Hertfordshire College, West Herts College, Hertford Regional College and Oaklands College. The programme has proved both popular and successful since it was first introduced in 1997. The colleges are large further education colleges with an increasingly diverse student population and designs its provision to meet the range of their needs.

Students are taught over two semesters (A and B). In semester A, core introductory modules are studied in biology, chemistry and physics and students will complete an individual project. In semester B, students will take one core module and choose a further three optional modules depending on the Honours degree they intend to progress to once the Extended Degree has been successfully completed. There is no final award at the end of the Extended Degree Science Initial Year, nor are any interim awards available to students.
B. Educational Aims of the Programme
The programme has been devised in accordance with the University’s graduate attributes of programmes of study as set out in UPR TL03.

Additionally this programme aims to:
• Provide students with the knowledge, scientific academic and independent study skills to embark on a higher education programme in the sciences.
• Provide progression to appropriate Honours degree programmes
• Enable students to develop knowledge, understanding and investigative skills relevant to a broad education in the biological and physical sciences
• Support the development of the transferable skills and attributes necessary for the students’ future professional development through academic study and independent study skills to embark on a higher education programme in the sciences.

C. Intended Learning Outcomes
The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills and other attributes in the following areas. The programme outcomes are referenced to the QAA benchmark statements for Biosciences, Biomedical Science, Chemistry, Mathematics, Statistics and Operational Research, Physics, Astronomy and Astrophysics and the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (2014) and relate to the typical student. Additionally, the SEEC Credit Level Descriptors for Further and Higher Education (2016) have been used as a guiding framework for curriculum design.

<table>
<thead>
<tr>
<th>Knowledge and Understanding</th>
<th>Teaching and learning methods</th>
<th>Assessment strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1- The key concepts and skills fundamental to science</td>
<td>Acquisition of knowledge and understanding is through a combination of lectures, laboratory classes, workshops building towards an individual project (A1 and A2). A3 is acquired through the lecture and tutorial programme in Mathematics for Scientists and extended in the optional Mathematics and Advanced Mathematics modules. A4 is acquired throughout the course and the individual Project module. Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.</td>
<td>Knowledge and understanding are assessed through a variety of methods, including formative assessment opportunities, which are built in to each module, a combination of unseen examinations, in course tests, laboratory reports and coursework assignments (A1, A2 and A3), whilst A4 is assessed through the Individual Project module, for formative purposes.</td>
</tr>
<tr>
<td>A2- The specific knowledge and skills appropriate to entry into level one of their chosen discipline.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3- Solve a range of numerical problems using a range of mathematical methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A4-Evaluate and report scientific information, showing independent thought in modules, culminating in a written project.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intellectual skills</th>
<th>Teaching and learning methods</th>
<th>Assessment strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1-Display appropriate laboratory skills including safe working practice.</td>
<td>Intellectual skills are developed through laboratory classes, coursework assignments for all the modules (B1 and B2). B3 and</td>
<td>Intellectual skills are assessed through practical work, throughout the programme (B1). B2 and B3</td>
</tr>
</tbody>
</table>
B2-Gather, apply and analyse information from different sources  
B3-Understand the scientific methods. Evaluate evidence using quantitative and/or qualitative methods  
B4-Develop awareness of ethical practice and the possible and commercial applications of science

<table>
<thead>
<tr>
<th>Practical skills</th>
<th>Teaching and learning methods</th>
<th>Assessment strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

D. Programme Structures, Features, Levels, Modules, and Credits

The programme is offered in full time (1 year) mode as four alternative courses:

- **Initial Year for Extended Degree Science - Subjects Allied to Medicine (SAM):** LMIYSAM  
- **Initial Year for Extended Degree Science - Biological Science (BS):** LMIYSBS  
- **Initial Year for Extended Degree Science - Physical Sciences (PS):** LMIYPS  
- **Initial Year for Extended Degree Science - Mathematics (MT):** LMIYMT

The courses do not lead to a formal award, but successful completion permits progression to Year 1 of a range of science programmes run at the University of Hertfordshire. Entry is at Level 3 (with A-level or equivalent qualifications). Intake is normally in Semester A (September).
Programme Structure
The programme structure and progression information below (Table 1) is provided for the completion of the Initial Year (Year 0) of the Extended Science degree (for detailed progression routes and tariffs see Section G). The Programme Learning Outcomes detailed above are developed and assessed through the constituent modules. Table 2 (in section 2) identifies where each learning outcome is assessed.

Table 1a Outline Programme Structure

**Mode of study** Full time  
**Entry point** Semester A  
**Level** 0

<table>
<thead>
<tr>
<th>Compulsory Modules (all courses)</th>
<th>Module Title</th>
<th>Module Code</th>
<th>North Hertfordshire College</th>
<th>West Herts College</th>
<th>Hertford Regional College</th>
<th>Oaklands College</th>
<th>Credit Points</th>
<th>Language of Delivery</th>
<th>% examination</th>
<th>% coursework</th>
<th>% Practical</th>
<th>Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Biology</td>
<td>0FHH00</td>
<td></td>
<td>13</td>
<td>22</td>
<td>41</td>
<td>42</td>
<td>15</td>
<td>English</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>A</td>
</tr>
<tr>
<td>Introductory Chemistry</td>
<td>0FHH00</td>
<td></td>
<td>14</td>
<td>23</td>
<td>43</td>
<td>44</td>
<td>15</td>
<td>English</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>A</td>
</tr>
<tr>
<td>Introductory Physics</td>
<td>0FHH00</td>
<td></td>
<td>15</td>
<td>24</td>
<td>46</td>
<td>47</td>
<td>15</td>
<td>English</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>A</td>
</tr>
<tr>
<td>Individual Project</td>
<td>0FHH00</td>
<td></td>
<td>18</td>
<td>25</td>
<td>48</td>
<td>49</td>
<td>15</td>
<td>English</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

(From optional modules below, students must choose Mathematics for Scientists, or Mathematics, in Semester A)

<table>
<thead>
<tr>
<th>Optional Modules</th>
<th>Module Title</th>
<th>Module Code</th>
<th>North Hertfordshire College</th>
<th>West Herts College</th>
<th>Hertford Regional College</th>
<th>Oaklands College</th>
<th>Credit Points</th>
<th>Language of Delivery</th>
<th>% examination</th>
<th>% coursework</th>
<th>% Practical</th>
<th>Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics for Scientists</td>
<td>0FHH00</td>
<td></td>
<td>16</td>
<td>26</td>
<td>50</td>
<td>51</td>
<td>15</td>
<td>English</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>A</td>
</tr>
<tr>
<td>Mammalian Physiology*</td>
<td>0FHH00</td>
<td></td>
<td>21</td>
<td>28</td>
<td>52</td>
<td>53</td>
<td>15</td>
<td>English</td>
<td>40</td>
<td>60</td>
<td>0</td>
<td>B</td>
</tr>
<tr>
<td>Applied and Environmental Biology</td>
<td>0FHH00</td>
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<td>20</td>
<td>27</td>
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<td>54</td>
<td>15</td>
<td>English</td>
<td>40</td>
<td>60</td>
<td>0</td>
<td>B</td>
</tr>
<tr>
<td>Chemistry*</td>
<td>0FHH00</td>
<td></td>
<td>10</td>
<td>29</td>
<td>55</td>
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<td>15</td>
<td>English</td>
<td>40</td>
<td>60</td>
<td>0</td>
<td>B</td>
</tr>
<tr>
<td>Mathematics</td>
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<td>17</td>
<td>30</td>
<td>57</td>
<td>58</td>
<td>15</td>
<td>English</td>
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<td>100</td>
<td>0</td>
<td>A/B</td>
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<tr>
<td>Advanced Mathematics†</td>
<td>0FHH00</td>
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<td>19</td>
<td>31</td>
<td>59</td>
<td>60</td>
<td>15</td>
<td>English</td>
<td>40</td>
<td>60</td>
<td>0</td>
<td>B</td>
</tr>
<tr>
<td>Physics</td>
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<td>11</td>
<td>32</td>
<td>61</td>
<td>62</td>
<td>15</td>
<td>English</td>
<td>40</td>
<td>60</td>
<td>0</td>
<td>B</td>
</tr>
<tr>
<td>Statistics</td>
<td>0FHH00</td>
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<td>12</td>
<td>33</td>
<td>63</td>
<td>65</td>
<td>15</td>
<td>English</td>
<td>40</td>
<td>60</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

(*normally compulsory for Subjects Allied to Medicine LMIYSAM)  
(†compulsory for Physical Sciences LMIYSPS and Mathematics LMIYSMT)

Progression to level 4 requires a minimum of 120 credits, the meeting of tariff grades, and in some cases specific module grades and completion of a satisfactory personal statement and successful interview, all of which are reviewed and set each year. In addition, some programmes require satisfactory Occupational
Health clearance and Enhanced Disclosure and Barring Service (DBS) checks (see Section G for detailed information).

Honours classification
Progression to level 4 involves transfer to a BSc (Hons) programme. The University has approved structure and assessment regulations common to all programmes. Full details are provided in UPR AS14, Section D.

Final and interim awards
The programme does not provide any final or interim awards.

Programme-specific assessment regulations

The programme complies with the University's academic regulations (in particular, UPR AS11, UPR AS12/UPR AS13 (delete as applicable) and UPR AS14) with the exception of those listed below, which have been approved by the University:

Further points of clarification and interpretation relevant to this specific programme are given below:

- An overall pass grade in 120 credits is the minimum requirement for progression to Year 1 of participating programmes, with some requiring higher specific grades and/or the successful completion of an interview for progression, according to the tariff set each year.
- Students achieving at least 90, but less than 120, credits will be offered the option to progress on to the Foundation Degree in Sports Studies.

E. Management of Programme & Support for student learning.

Management

The programme is managed and administered through:

- Head of Teaching & Learning, Higher Education (North Hertfordshire College) and Director of Higher Level Learning (West Herts College), Higher Education Development Manager (HRC) and Higher Education Manager (OAK)
- A Programme Manager and a Deputy Programme Manager with responsibility for the day to day management of the programme and admissions at each College. The Programme Manager will help students to understand the course/programme structure, take overall responsibility for the constituent courses of the programme including induction, administration and the production of the AMER.
- A Collaborative Partnership Leader, who provides support and facilitates communication between the College and the University and chairs the Programme Committee.
- Module leaders who are responsible for the individual modules.
- A programme committee, the membership of which includes: Collaborative Partnership Leader (Chair); Programme Administrator (Clerk); Programme Manager (PM)/Deputy PM from the College (or alternate); One full-time student representative per cohort (~25) from the college (PM or alternate, CPL and students must be present to be quorate).
- The following may also attend the Committee: Dean of School; School Administration Manager; Associate Dean Academic Quality Assurance; Appropriate Heads of Department at UH; Appropriate Heads of Department/Deputy Heads of Department at Colleges; Manager, UK Partnerships at UH; College HE Managers; College and University Lecturers who have taught on the programme; Module Moderators at UH; Admissions Tutor; LIS representative, UH; College LRC representatives; Other Student Representatives; Subject Specialist; Subject Advisors.

Support

Students are supported by;
An induction week at the beginning of each new academic session.

An extensive Learning Resources Centre, incorporating a library and computer centre.

Online information and learning materials and support through the College's Managed Learning Environment (StudyNet), a College wide set of systems and tools for educational delivery.

Student handbooks.

A Programme Manager to help students understand the course structure.

A Collaborative Partnership Leader to liaise between the College and University, and to aid progression.

An Administrator to help with module registration, liaison with local authorities and examination arrangements and results.

Module Co-ordinators to help students understand the aims, outcomes and organization of the modules.

Personal tutors to provide pastoral and academic support.

A personal tutor for the Individual Project module.

A substantial Student Services Centre that provides advice on issues such as finance, University regulations, legal matters etc.

An Accommodation Office.

An Overseas Students Centre.

A Disabled Student Tutor.

Student representatives on programme committees and student council.

The Students' Union.

Careers and Employment Service.

F. Other sources of information

In addition to this Programme Specification, the University publishes guidance to registered students on the programme and its constituent modules:

- A Programme (or Student) Handbook;
- A Definitive Module Document (DMD) for each constituent module;
- A Module Guide for each constituent module.

The Herts Handbook is an introduction to the academic, social, cultural and sporting services and opportunities available at the University of Hertfordshire, and includes the Student Charter and Student Code of Conduct.

As a condition of registration, all students of the University of Hertfordshire are required to comply with the University's rules, regulations and procedures. These are published in a series of documents called ‘University Policies and Regulations’ (UPRs). The University requires that all students consult these documents which are available on-line, on the UPR web site, at: http://www.herts.ac.uk/secreg/upr/. In particular, UPR SA07 ‘Regulations and Advice for Students’ Particular Attention - Index’ provides information on the UPRs that contain the academic regulations of particular relevance for undergraduate and taught postgraduate students.

The UK Quality Assurance Agency for Higher Education (QAA) has confirmed the quality and standards of provision at the University of Hertfordshire. A key part of QAA’s role is to review and report on how universities maintain their academic standards and quality, to inform students and the wider public. The team of QAA reviewers visited the University of Hertfordshire in 2015/16 and judged that its academic standards, the quality and enhancement of its students' learning experience, and the quality of information about this learning experience all meet UK expectations. In other words, the University meets national requirements for standards and quality. The QAA’s report can be accessed at: http://www.qaa.ac.uk/reviews-and-reports/provider?UKPRN=10007147#.V-KHajXy0nE

G. Entry requirements

The normal entry requirements for the programme are:
48 UCAS points, which can be made up of at least a full 4-unit A level (A2), a BTEC National Award or equivalent (please note the UCAS points cannot be made up of only AS levels).

IB - 48 points with a minimum of 1 HL subject at grade 4 or above (with the remaining points to come from a combination of HL, SL and Core).

**together with**

GCSE Maths, English Language and Science at grade 4 or above (Grade C under the old grading structure) or equivalent.

Applications are also welcomed from mature applicants who are considered on the basis of employment experience in addition to formal qualifications.

Applicants intending to progress to professional programmes at the University of Hertfordshire that require an interview and a satisfactory Enhanced Disclosure and Barring Service (DBS) and Occupational Health check will be made aware of this requirement when applying to the college.

The programme is subject to the University's Principles, Policies and Regulations for the Admission of Students to Undergraduate and Taught Postgraduate Programmes (in UPR SA03), along with associated procedures. These will take account of University policy and guidelines for assessing accredited prior certificated learning (APCL) and accredited prior experiential learning (APEL).

**H. Progression requirements**

**Table 2. Progression requirements**

<table>
<thead>
<tr>
<th>JACS Code</th>
<th>Course</th>
<th>Title</th>
<th>Overall mean</th>
<th>With a minimum</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>B740</td>
<td>HHNURA</td>
<td>BSc (Hons) Nursing (Adult)</td>
<td>60%</td>
<td>50% in Mammalian Physiology 50% in Maths for Scientists</td>
<td>Numeracy test, literacy test, interview focusing on the values of nursing. Grade C / 4 or above in 5 GCSE including Maths and English or university equivalents.</td>
</tr>
<tr>
<td>B730</td>
<td>HHNURC</td>
<td>BSc (Hons) Nursing (Child)</td>
<td>60%</td>
<td>50% in Mammalian Physiology 50% in Maths for Scientists</td>
<td>The same as for HHNURA plus: Grade C / 4 or above in 5 GCSE including a Science subject, Maths and English or university equivalents and work or voluntary experience with children.</td>
</tr>
<tr>
<td>JACS Code</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Overall mean</td>
<td>With a minimum</td>
<td>Other</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>--------------------------------------------------------</td>
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<td>------------------------------------------------</td>
</tr>
<tr>
<td>C100</td>
<td>HHBIOBLS</td>
<td>BSc(Hons) Biological Sciences</td>
<td>40%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Course</td>
<td>Title</td>
<td>Overall Mean</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>--------</td>
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<td>--------------------------------------------</td>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>C700</td>
<td>HHBIOMOL</td>
<td>BSc(Hons) Molecular Biology</td>
<td>50%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C700</td>
<td>HHBIOBIC</td>
<td>BSc(Hons) Biochemistry</td>
<td>50%</td>
<td>50% in Chemistry</td>
<td></td>
</tr>
<tr>
<td>C602</td>
<td>HHSPS</td>
<td>BSc(Hons) Sports Studies</td>
<td>60%</td>
<td>Requires an interest in sport e.g. through participation, coaching, etc, and commitment to attaining sports coaching awards</td>
<td></td>
</tr>
<tr>
<td>C620</td>
<td>HHSPS</td>
<td>BSc (Hons) Physical Activity and Sports Development</td>
<td>60%</td>
<td>As for Sports Studies</td>
<td></td>
</tr>
<tr>
<td>C610</td>
<td>HHSPS</td>
<td>BSc (Hons) Sports Coaching</td>
<td>60%</td>
<td>As for Sports Studies</td>
<td></td>
</tr>
<tr>
<td>N880</td>
<td>HHSPS</td>
<td>BSc (Hons) Sports Business Management</td>
<td>60%</td>
<td>As for Sports Studies</td>
<td></td>
</tr>
<tr>
<td>C600</td>
<td>HHSPPO</td>
<td>BSc(Hons) Sports and Exercise Science</td>
<td>60%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C800</td>
<td>HHPSY</td>
<td>BSc(Hons) Psychology</td>
<td>60%</td>
<td>50% in Maths modules</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Sciences (PS) Course: LMIYSPS Course instances: IYSPSN1F/IYSPSW1F (UCAS F900)**

<table>
<thead>
<tr>
<th>JACS Code</th>
<th>Course</th>
<th>Title</th>
<th>Overall Mean</th>
<th>With a minimum of:</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>F510</td>
<td>EIPHYAP</td>
<td>BSc(Hons) Astrophysics</td>
<td>60%</td>
<td>65% in Advanced Mathematics, 65% in Physics modules</td>
<td></td>
</tr>
<tr>
<td>F300</td>
<td>EIPHY</td>
<td>BSc (Hons) Physics</td>
<td>60%</td>
<td>65% in Advanced Mathematics, 65% in Physics modules</td>
<td></td>
</tr>
<tr>
<td>F800</td>
<td>HHGEG</td>
<td>BSc (Hons) Geography</td>
<td>50%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F750</td>
<td>HHGEE</td>
<td>BSc (Hons) Environmental Management</td>
<td>50%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics (MT): LMIYSMT Course instances: IYSPMTN1F/IYSPMTW1F (UCAS G101)**

<table>
<thead>
<tr>
<th>JACS Code</th>
<th>Course</th>
<th>Title</th>
<th>Overall Mean</th>
<th>With a minimum of:</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>G100</td>
<td>EIMM</td>
<td>BSc(Hons) Mathematics</td>
<td>60%</td>
<td>65% in Advanced Mathematics, 40% in Physics modules</td>
<td></td>
</tr>
<tr>
<td>GN13</td>
<td>EIMM</td>
<td>BSc(Hons) Financial Mathematics</td>
<td>60%</td>
<td>65% in Advanced Mathematics, 40% in Physics modules</td>
<td></td>
</tr>
</tbody>
</table>

**Subjects in the Hertfordshire Higher Education Consortium**

- **Foundation Degree in Sports Studies**: Pass (minimum 40%) 6 modules – 90 credits (must include compulsory modules)
  - Offered at North Hertfordshire College (Hitchin), Oaklands College (Smallford) and West Herts College (Watford) and students will be offered a choice of college.
  - (Requires interest in sport e.g. through participation, coaching, etc)
If you would like this information in an alternative format please contact: Katie Parkash, email: k.parkash@herts.ac.uk
If you wish to receive a copy of the latest Programme Annual Monitoring and Evaluation Report (AMER) for the programme, please email a request to aqo@herts.ac.uk
## Table 3: Development of Intended Programme Learning Outcomes in the Constituent Modules

This map identifies where the programme learning outcomes are assessed in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the programme aims (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own learning, personal and professional development as the programme progresses.

### Programme Learning Outcomes (identified in section 1 and the following page)

<table>
<thead>
<tr>
<th>Module Title</th>
<th>Prefix</th>
<th>NHC</th>
<th>WHC</th>
<th>HRC</th>
<th>OAK</th>
<th>Knowledge &amp; Understanding</th>
<th>Intellectual Skills</th>
<th>Practical Skills</th>
<th>Transferable Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Biology</td>
<td>0FHH00</td>
<td>13</td>
<td>22</td>
<td>41</td>
<td>42</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Introductory Chemistry</td>
<td>0FHH00</td>
<td>14</td>
<td>23</td>
<td>43</td>
<td>44</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Introductory Physics</td>
<td>0FHH00</td>
<td>15</td>
<td>24</td>
<td>46</td>
<td>47</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Individual Project</td>
<td>0FHH00</td>
<td>18</td>
<td>25</td>
<td>48</td>
<td>49</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Mathematics for Scientists</td>
<td>0FHH00</td>
<td>16</td>
<td>26</td>
<td>50</td>
<td>51</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Mammalian Physiology</td>
<td>0FHH00</td>
<td>21</td>
<td>28</td>
<td>52</td>
<td>53</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Applied and Environmental Biology</td>
<td>0FHH00</td>
<td>20</td>
<td>27</td>
<td>64</td>
<td>54</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Chemistry</td>
<td>0FHH00</td>
<td>10</td>
<td>29</td>
<td>55</td>
<td>56</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Mathematics</td>
<td>0FHH00</td>
<td>17</td>
<td>30</td>
<td>57</td>
<td>58</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Advanced Mathematics</td>
<td>0FHH00</td>
<td>19</td>
<td>31</td>
<td>59</td>
<td>60</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Physics</td>
<td>0FHH00</td>
<td>11</td>
<td>32</td>
<td>61</td>
<td>62</td>
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<td>Statistics</td>
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<td>33</td>
<td>63</td>
<td>65</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

### KEY TO PROGRAMME LEARNING OUTCOMES

#### Knowledge and Understanding

- **A1.** Acquire a broad knowledge of key concepts and skills fundamental to science.
- **A2.** Acquire the specific knowledge and skills appropriate to entry into level one of their chosen discipline.
- **A3.** Solve a range of numerical problems using a range of mathematical methods.
- **A4.** Evaluate and report scientific information in a written project.

#### Practical Skills

- **C1.** Perform experiments safely in the laboratory for all the sciences.
- **C2.** Independently research, plan and carry out a scientific investigation.
Intellectual Skills

B1. Display appropriate laboratory skills including safe working practice where appropriate
B2. Gather information from different sources
B3. Display an awareness of the existence and nature of value judgments
B4 Develop awareness of ethical practice and the possible and commercial applications of science

Transferable Skills

D1. Communicate effectively using a variety of formats
D2. Use effectively a range of information sources
D3. Work efficiently both alone and as part of a group
D4. Be numerate at a level appropriate to their chosen discipline
D5. Use information and analyse with technology to source and present information
### Section 2

**Programme management**

**Relevant QAA subject benchmarking statements**

- Biosciences, Biomedical Science, Chemistry,
- Mathematics, Statistics and Operational Research
- Physics, Astronomy and Astrophysics

**Type of programme**

- Undergraduate

**Date of validation/last periodic review**

- April 15

**Date of production/last revision of PS**

- 7 March 2017

**Relevant to level/cohort**

- Choose a level entering September 2018

**Administrative School**

- School of Life and Medical Sciences

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#### Table 4 Course structure

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course description</th>
<th>Location:</th>
<th>Mode of study</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMIYSAM</td>
<td>Initial Year for Extended Degree in Science - Subjects Allied to Medicine</td>
<td>North Hertfordshire College</td>
<td>Full-time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West Herts College</td>
<td>Full-time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hertford Regional College</td>
<td>Full-time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oaklands College</td>
<td>Full-time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMIYSBS</td>
<td>Initial Year for Extended Degree in Science – Biological Sciences</td>
<td>C900</td>
</tr>
<tr>
<td>Course code</td>
<td>Course description</td>
<td>JACS</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>LMIYSPS</td>
<td>Initial Year for Extended Degree in Science – Physical Sciences</td>
<td>F900</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Instances code</th>
<th>Intake</th>
<th>Stream</th>
<th>Year</th>
<th>Location:</th>
<th>Mode of study</th>
</tr>
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<tbody>
<tr>
<td>IYSPSN1F</td>
<td>A</td>
<td>Initial Year for Extended Degree in Science - Physical Sciences</td>
<td>1</td>
<td>North Hertfordshire College</td>
<td>Full-time</td>
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<tr>
<td>IYSPSH1F</td>
<td>A</td>
<td>Initial Year for Extended Degree in Science - Physical Sciences</td>
<td>1</td>
<td>Hertford Regional College</td>
<td>Full-time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course description</th>
<th>JACS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMIYSMT</td>
<td>Initial Year for Extended Degree in Science - Mathematics</td>
<td>G100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Instances code</th>
<th>Intake</th>
<th>Stream</th>
<th>Year</th>
<th>Location:</th>
<th>Mode of study</th>
</tr>
</thead>
<tbody>
<tr>
<td>IYSMTN1F</td>
<td>A</td>
<td>Initial Year for Extended Degree in Science - Mathematics</td>
<td>1</td>
<td>North Hertfordshire College</td>
<td>Full-time</td>
</tr>
<tr>
<td>IYSMTH1F</td>
<td>A</td>
<td>Initial Year for Extended Degree in Science - Mathematics</td>
<td>1</td>
<td>Hertford Regional College</td>
<td>Full-time</td>
</tr>
</tbody>
</table>