About this guide

This is your course guide. It provides the basic but fundamental information about your course of study. This guide is yours for the duration of the course, we don’t re-issue it annually and if any information contained within were to change then we will write to you to explain so.

In particular, if any important aspects relating to your modules were to change then we will inform you in accordance with the Code of Practice for the Management of Changes to Modules and Courses. The teaching and support teams which you will get to know over time will refer to this guide – it will be useful to you and we advise you to make good use of it throughout your studies.

The Course Guide should be read in conjunction with the more general sources of information which relate to all students at the University. The Student Handbook is a very detailed reference point for all issues relating to your studies which aren’t specific to just your particular course. You might also want to refer to the Student Charter; the University’s Policies and Regulations and the University Assessment Handbook documents which will provide you with all of the information that we think you will need for your period of study here.

If you need additional information, or you simply want to discuss elements of any of these documents or other aspects of your course, find that there is something you need to know, please contact your Faculty Student Services:

Faculty Student Services

We can help with the administration and organisation of your time at University – from enrolment and module registration, tuition fee enquiries, attendance support, course management and lifecycle queries, extenuating circumstances, leave of absence, transfers and changes, assignment submission, SAMs appointments, assessment and result queries, right through to Graduation.

You can also come and talk to us for impartial advice and support if things are starting to go wrong and you’re not sure who else to talk to. The main thing to remember is that you are not alone. We see large numbers of students over the course of a year on a variety of issues, so please don’t be afraid to approach us.

We are here to ensure that your transition into Higher Education is as smooth as possible. Normal office opening hours are Monday-Friday 08:45-17:00.

You can contact us through the e:vision help desk, by phone or in person or by e-mail:

<table>
<thead>
<tr>
<th>Faculty of Science and Engineering (City Campus)</th>
<th>Alan Turing Building MI 024</th>
<th>(01902) 322129</th>
<th><a href="mailto:fsestudentservices@wlv.ac.uk">fsestudentservices@wlv.ac.uk</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Science and Engineering (Telford Campus)</td>
<td>The Darby Building SC 041</td>
<td>(01902) 322129</td>
<td><a href="mailto:fsestudentservices@wlv.ac.uk">fsestudentservices@wlv.ac.uk</a></td>
</tr>
<tr>
<td>Help and Advice is also available from Student Support &amp; Wellbeing...</td>
<td>Contact us at the Alan Turing Building MI 001 for all enquiries and referrals... Services operate at all campuses by appointment.</td>
<td>(01902) 321074 (01902) 321070</td>
<td><a href="mailto:ssw@wlv.ac.uk">ssw@wlv.ac.uk</a> <a href="mailto:money@wlv.ac.uk">money@wlv.ac.uk</a></td>
</tr>
</tbody>
</table>

Welcome from the Course Leader

On behalf of the teaching and support teams from BSc(Hons) Biological Sciences with Sandwich Placement course, I would like to extend to you a very warm welcome to the University of Wolverhampton, and in particular your campus.

My name is Roy Protheroe and I am the course leader for your BSc(Hons) Biological Sciences with Sandwich
Placement course and alongside your personal tutor, will be your main point of contact over the duration of your studies. My contact details are below – please don't hesitate to get in touch if you need any support or guidance.

The successes which you will achieve whilst at the University are based upon a partnership between the expertise and support from the staff here and the effort you put into learning. We welcome students who are eager to think for themselves, to take control of their own learning and who are ready to get involved in developing the skills required in a highly competitive job market. Make the most of the wide range of opportunities available to you.

Studying at University can be difficult, and for many of you the transition into University life will be challenging. However we will support you throughout your course, particularly whilst you develop into an independent learner over the course of your first year with us.

We believe it is important that you are encouraged to make your own contribution to the effective operation and development of your chosen course. We hope that you might consider acting as a Course Representative during some of your time with us to help the University continue to improve your experience.

I would like to wish you every success with your studies. We look forward to working with you and hope that you enjoy your time with us.

Roy Protheroe

Course Management and Staff Involvement

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Specialism</th>
<th>eMail</th>
<th>Tel. Ext.</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head of Department</td>
<td>Georgina Manning</td>
<td></td>
<td><a href="mailto:G.Manning@wlv.ac.uk">G.Manning@wlv.ac.uk</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Leader</td>
<td>Dr Roy Protheroe</td>
<td></td>
<td><a href="mailto:R.G.Protheroe@wlv.ac.uk">R.G.Protheroe@wlv.ac.uk</a></td>
<td>2340</td>
<td>MA203</td>
</tr>
<tr>
<td>Student Advisor</td>
<td>Miss Kimberley Turner</td>
<td></td>
<td><a href="mailto:Kim.Turner@wlv.ac.uk">Kim.Turner@wlv.ac.uk</a></td>
<td>3577</td>
<td>MI024</td>
</tr>
</tbody>
</table>

Educational Aims of the Course

Biology is a vast and endlessly fascinating area – this course provides an in-depth education in the molecular cellular and genetic activities of micro-organisms, plants and animals.

With an emphasis on the applied aspects of the subject area, the course integrates technical, practical, problem solving and career relevant aspects of the award. Technical competence is an important aspect of the award hence you will be provided with ample opportunity to undertake hands-on experiments and computer based exercises which not only underpin theory, but also provide technical training.

Integrated throughout the course at all levels are transferable skills which range from written and oral communication to career and time management, together with numeracy and scientific writing. These skills will assist your studies and are valued by employers.

The award is technically supported by a full range of analytical equipment for the analysis of biological materials and for the investigation of microorganisms, plants and animals.

What makes this programme distinctive?

The emphasis throughout the course will be on the applied nature of the study of biology in terms of how fundamental knowledge can be applied to tangible vocational situations and problems, together with the acquisition of practical and generic skills.
The intention of this approach will be to prepare students for their chosen career in any of the varied career options made available by a degree in Applied Biological Sciences.

To achieve this the award is structured to enable challenges to apply information effectively, to work in teams, to gain actual industrial experience, to learn from the experiences of professionals, to acquire technical competence and to develop generic and time management skills.

A placement can be undertaken anywhere; local, national or even, in some instances, international. During a placement, you will be doing similar work to a normal employee of the organisation giving you a unique insight into your chosen profession or sector, the opportunity to acquire crucial personal skills and also the opportunity to build a network of useful contacts. Many companies that employ graduates use placement programmes as a method of recruitment so you could be fast tracked into employment or onto one of their graduate schemes if you impress them.

The team at The Workplace constantly search for new placement opportunities but if you find an opportunity that interests you or you have been successful in securing one yourself, contact them for further information and support.

Course Structure

**September (Sandwich)**

Year 1
<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4AB008</td>
<td>Bioscience Skills</td>
<td>20</td>
<td>SEM1</td>
<td>Core</td>
</tr>
<tr>
<td>4AB007</td>
<td>Plants and the Environment</td>
<td>20</td>
<td>SEM1</td>
<td>Core</td>
</tr>
<tr>
<td>4PY013</td>
<td>Molecular Basis of Life</td>
<td>20</td>
<td>SEM2</td>
<td>Core</td>
</tr>
<tr>
<td>4AB012</td>
<td>Microbiology with Immunology</td>
<td>20</td>
<td>SEM2</td>
<td>Core</td>
</tr>
</tbody>
</table>

**For this option group you must choose a minimum of 20 credits and a maximum of 20 credits**

Please consider your Level 5 and Level 6 programme prior to choosing your Level 4 options. You need to choose 40 credits worth of choice (two options) in total.

Choose 4AB010 or 4AB013 in Semester 1 and 4AB015 or 4AB014 in Semester 2 if you wish to have an organismal strand to your course.

Choose 4BC001 or 4BC002 if you wish to have a biochemistry/microbiology strand to your course.

Choose 4BM004 and/or 4BM008 if you wish to have a human biology/evolution strand to your course.

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4BC001</td>
<td>Chemistry for Forensic and Molecular Science</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
<tr>
<td>4BC002</td>
<td>Forensic and Molecular Chemistry</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
<tr>
<td>4AB010</td>
<td>Animal Behaviour</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
<tr>
<td>4AB013</td>
<td>Animals: inside and out</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
<tr>
<td>4BM004</td>
<td>Human Structure and Function</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
<tr>
<td>4WL002</td>
<td>Basic Language</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
<tr>
<td>4WL003</td>
<td>Elementary Language</td>
<td>20</td>
<td>SEM1</td>
<td></td>
</tr>
</tbody>
</table>

**For this option group you must choose a minimum of 20 credits and a maximum of 20 credits**

Please consider your Level 5 and Level 6 programme prior to choosing your Level 4 options. You need to choose 40 credits worth of choice (two options) in total.

Choose 4AB010 or 4AB013 in Semester 1 and 4AB015 or 4AB014 in Semester 2 if you wish to have an organismal strand to your course.

Choose 4BC001 or 4BC002 if you wish to have a biochemistry/microbiology strand to your course.

Choose 4BM004 and/or 4BM008 if you wish to have a human biology/evolution strand to your course.

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4AB015</td>
<td>Life of Mammals</td>
<td>20</td>
<td>SEM2</td>
<td></td>
</tr>
<tr>
<td>4BM008</td>
<td>Human Physiology</td>
<td>20</td>
<td>SEM2</td>
<td></td>
</tr>
<tr>
<td>4AB014</td>
<td>Ecology</td>
<td>20</td>
<td>SEM2</td>
<td></td>
</tr>
<tr>
<td>4WL002</td>
<td>Basic Language</td>
<td>20</td>
<td>SEM2</td>
<td></td>
</tr>
<tr>
<td>4WL003</td>
<td>Elementary Language</td>
<td>20</td>
<td>SEM2</td>
<td></td>
</tr>
</tbody>
</table>
September (Sandwich)

Year 2

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5BC001</td>
<td>Molecular Biosciences</td>
<td>20</td>
<td>SEM1</td>
<td>Core</td>
</tr>
<tr>
<td>5BC003</td>
<td>Molecular Biosciences Practical Techniques</td>
<td>20</td>
<td>SEM1</td>
<td>Core</td>
</tr>
<tr>
<td>5AB008</td>
<td>Cellular and Organismal Biosciences</td>
<td>20</td>
<td>SEM2</td>
<td>Core</td>
</tr>
<tr>
<td>5AB012</td>
<td>Analytical Techniques in Biosciences</td>
<td>20</td>
<td>SEM2</td>
<td>Core</td>
</tr>
</tbody>
</table>

For this option group you must choose a minimum of 20 credits and a maximum of 20 credits

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>5BC002</td>
<td>Proteins</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>5AB009</td>
<td>Conservation Biology</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>5AB015</td>
<td>Behavioural Ecology</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>5WL001</td>
<td>Basic Language</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>5WL002</td>
<td>Elementary Language</td>
<td>20</td>
<td>SEM1</td>
</tr>
</tbody>
</table>

For this option group you must choose a minimum of 20 credits and a maximum of 20 credits

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>5AB010</td>
<td>Animal Behaviour and Captivity</td>
<td>20</td>
<td>SEM2</td>
</tr>
<tr>
<td>5BM012</td>
<td>Evolution and Origin of Life</td>
<td>20</td>
<td>SEM2</td>
</tr>
<tr>
<td>5WL001</td>
<td>Basic Language</td>
<td>20</td>
<td>SEM2</td>
</tr>
<tr>
<td>5WL002</td>
<td>Elementary Language</td>
<td>20</td>
<td>SEM2</td>
</tr>
</tbody>
</table>

September (Sandwich)

Year 3

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5AB017</td>
<td>Sandwich Placement</td>
<td>40</td>
<td>YEAR</td>
<td>Core</td>
</tr>
</tbody>
</table>

September (Sandwich)

Year 4
<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
<td>40</td>
<td>YEAR</td>
<td>Core</td>
</tr>
<tr>
<td>6AB001</td>
<td>Microbial Biotechnology</td>
<td>20</td>
<td>SEM1</td>
<td>Core</td>
</tr>
<tr>
<td>6AB002</td>
<td>Plant Biotechnology</td>
<td>20</td>
<td>SEM2</td>
<td>Core</td>
</tr>
</tbody>
</table>

For this option group you must choose a minimum of 20 credits and a maximum of 20 credits

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>6BM015</td>
<td>Human Development</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>6AB008</td>
<td>Conservation of Aquatic Vertebrates</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>6AB005</td>
<td>Independent Study in Biological and Forensic Sciences</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>6BC002</td>
<td>Gene Manipulation and Bioinformatics</td>
<td>20</td>
<td>SEM1</td>
</tr>
<tr>
<td>6WL001</td>
<td>Intermediate/Advanced Language</td>
<td>20</td>
<td>SEM1</td>
</tr>
</tbody>
</table>

For this option group you must choose a minimum of 20 credits and a maximum of 20 credits

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>6BM010</td>
<td>Medical Microbiology</td>
<td>20</td>
<td>SEM2</td>
</tr>
<tr>
<td>6BM016</td>
<td>Human Evolution</td>
<td>20</td>
<td>SEM2</td>
</tr>
<tr>
<td>6AB005</td>
<td>Independent Study in Biological and Forensic Sciences</td>
<td>20</td>
<td>SEM2</td>
</tr>
<tr>
<td>6WL001</td>
<td>Intermediate/Advanced Language</td>
<td>20</td>
<td>SEM2</td>
</tr>
</tbody>
</table>

**Course Learning Outcomes**

**CertHE Course Learning Outcome 1 (CHECLO1)**

"Demonstrate knowledge of the underlying concepts and principles associated with your area(s) of study, and an ability to evaluate and interpret these within the context of that area of study"

<table>
<thead>
<tr>
<th>Contributing Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>4AB007 Plants and the Environment</td>
</tr>
<tr>
<td>4AB008 Bioscience Skills</td>
</tr>
<tr>
<td>4AB010 Animal Behaviour</td>
</tr>
<tr>
<td>4AB012 Microbiology with Immunology</td>
</tr>
<tr>
<td>4AB013 Animals: inside and out</td>
</tr>
<tr>
<td>4AB014 Ecology</td>
</tr>
<tr>
<td>4AB015 Life of Mammals</td>
</tr>
<tr>
<td>4BC001 Chemistry for Forensic and Molecular Science</td>
</tr>
<tr>
<td>4BC002 Forensic and Molecular Chemistry</td>
</tr>
<tr>
<td>4BM004 Human Structure and Function</td>
</tr>
<tr>
<td>4BM008 Human Physiology</td>
</tr>
<tr>
<td>4PY013 Molecular Basis of Life</td>
</tr>
</tbody>
</table>

**CertHE Course Learning Outcome 2 (CHECLO2)**

"Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data, in order to develop lines of argument and make sound judgements in accordance with basic theories and concepts of your subject(s) of study."

<table>
<thead>
<tr>
<th>Contributing Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>4AB007 Plants and the Environment</td>
</tr>
<tr>
<td>4AB008 Bioscience Skills</td>
</tr>
<tr>
<td>4AB010 Animal Behaviour</td>
</tr>
<tr>
<td>4AB012 Microbiology with Immunology</td>
</tr>
<tr>
<td>4AB013 Animals: inside and out</td>
</tr>
<tr>
<td>4AB014 Ecology</td>
</tr>
<tr>
<td>4AB015 Life of Mammals</td>
</tr>
</tbody>
</table>
CertHE Course Learning Outcome 3 (CHECLO3)
Evaluate the appropriateness of different approaches to solving problems related to your area(s) of study and/or work

CertHE Course Learning Outcome 4 (CHECLO4)
" Communicate the results of your study/work accurately and reliably, and with structured and coherent arguments"

CertHE Course Learning Outcome 5 (CHECLO5)
Demonstrate the qualities and transferable skills necessary for employment requiring the exercise of some personal responsibility

DipHE Course Learning Outcome 1 (DHECLO1)
" Demonstrate knowledge and critical understanding of the well-established principles of your area(s) of study, and of the way in which those principles have developed with an understanding of the limits of your knowledge, and how this influences analyses and interpretations based on that knowledge."

DipHE Course Learning Outcome 2 (DHECLO2)
" Demonstrate the ability to apply underlying concepts and principles outside the context in which they were first studied, including, where appropriate, the application of those principles in an employment context"
DipHE Course Learning Outcome 3 (DHECLO3)
"Demonstrate knowledge of the main methods of enquiry in the subject(s) relevant to the named award, and ability to evaluate critically the appropriateness of different approaches to solving problems in the field of study"

DipHE Course Learning Outcome 4 (DHECLO4)
"Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis"

DipHE Course Learning Outcome 5 (DHECLO5)
"Effectively communicate information, arguments and analysis in a variety of forms to specialist and non-specialist audiences, and deploy key techniques of the discipline effectively"

DipHE Course Learning Outcome 6 (DHECLO6)
"Demonstrate the qualities and transferable skills necessary for employment, requiring the exercise of personal responsibility and decision-making and undertake further training, developing existing skills and acquire new competences that will enable them to assume significant responsibility within organisations"

Ordinary Degree Course Learning Outcome 1 (ORDCLO1)
Demonstrate an understanding of the biological relationships between the structure and activity of biomolecules and genetic organisation with the form and function of living organisms
**Ordinary Degree Course Learning Outcome 2**

Perform molecular, cellular and biochemical techniques relevant to the study of biology, including microorganisms, plants and animal cells

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6BM010</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
</tbody>
</table>

**Ordinary Degree Course Learning Outcome 3**

Participate in the development of biology, to initiate theories, gather and formulate scientific information, reliably collate and analyse data, apply appropriate statistical tests, debate and draw conclusions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB001</td>
<td>Microbial Biotechnology</td>
</tr>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6AB005</td>
<td>Independent Study in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6AB008</td>
<td>Conservation of Aquatic Vertebrates</td>
</tr>
<tr>
<td>6BC002</td>
<td>Gene Manipulation and Bioinformatics</td>
</tr>
<tr>
<td>6BM010</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
<tr>
<td>6BM017</td>
<td>Advanced Human Physiology</td>
</tr>
<tr>
<td>6BM018</td>
<td>Current Perspectives in Physiology</td>
</tr>
</tbody>
</table>

**Ordinary Degree Course Learning Outcome 4**

Use knowledge acquired to understand conservation and ecology, animal biology and genetics, together with microbiological applications in industry, including where appropriate social and ethical considerations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB001</td>
<td>Microbial Biotechnology</td>
</tr>
<tr>
<td>6AB002</td>
<td>Plant Biotechnology</td>
</tr>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6AB008</td>
<td>Conservation of Aquatic Vertebrates</td>
</tr>
<tr>
<td>6BC002</td>
<td>Gene Manipulation and Bioinformatics</td>
</tr>
<tr>
<td>6BM010</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
<tr>
<td>6BM016</td>
<td>Human Evolution</td>
</tr>
</tbody>
</table>

**Honours Degree Course Learning Outcome 1**

Demonstrate an understanding of the biological relationships between the structure and activity of biomolecules and genetic organisation with the form and function of living organisms

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB002</td>
<td>Plant Biotechnology</td>
</tr>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6BC002</td>
<td>Gene Manipulation and Bioinformatics</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
<tr>
<td>6BM016</td>
<td>Human Evolution</td>
</tr>
</tbody>
</table>

**Honours Degree Course Learning Outcome 2**

Perform molecular, cellular and biochemical techniques relevant to the study of biology, including microorganisms, plants and animal cells

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB002</td>
<td>Plant Biotechnology</td>
</tr>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6BM010</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
</tbody>
</table>

**Honours Degree Course Learning Outcome 3**

Participate in the development of biology, to initiate theories, gather and formulate scientific information, reliably collate and analyse data, apply appropriate statistical tests, debate and draw conclusions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB001</td>
<td>Microbial Biotechnology</td>
</tr>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6AB005</td>
<td>Independent Study in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6BM014</td>
<td>Honours Research Project</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
<tr>
<td>6BM017</td>
<td>Advanced Human Physiology</td>
</tr>
<tr>
<td>6BM018</td>
<td>Current Perspectives in Physiology</td>
</tr>
</tbody>
</table>

**Honours Degree Course Learning Outcome 4**

Use knowledge acquired to understand conservation and ecology, animal biology and genetics, together with microbiological applications in industry, including where appropriate social and ethical considerations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AB001</td>
<td>Microbial Biotechnology</td>
</tr>
<tr>
<td>6AB002</td>
<td>Plant Biotechnology</td>
</tr>
<tr>
<td>6AB003</td>
<td>Honours Project in Biological and Forensic Sciences</td>
</tr>
<tr>
<td>6AB008</td>
<td>Conservation of Aquatic Vertebrates</td>
</tr>
<tr>
<td>6BC002</td>
<td>Gene Manipulation and Bioinformatics</td>
</tr>
<tr>
<td>6BM010</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>6BM015</td>
<td>Human Development</td>
</tr>
<tr>
<td>6BM016</td>
<td>Human Evolution</td>
</tr>
</tbody>
</table>

**PSRB**

None
Employability in the Curriculum

With a degree in Biological Sciences a student would be eligible to apply for a number of career options, including employment or further higher education.

A degree in Biological Sciences opens a variety of employment opportunities. With a knowledge of biological systems and having acquired transferable skills and technical competence, a range of career paths become available. Science related employment in technology based companies, whether multinational or smaller enterprises in biotechnology, agricultural, pharmaceutical and government agencies are all potential avenues. Food manufacturing and water companies require employees to undertake varied responsibilities such as quality assurance and the development and production of new products.

Options to study aspects of human and animal biology lead to a consideration of employment in biomedicine or animal welfare and conservation.

The broad scope of the award accommodates non-scientific careers and consequently teaching, retail, marketing and management are all realistic options.

For further higher education, MSc programmes such as Applied Microbiology and Biotechnology or Biotechnology at UofW or research to PhD, would be viable options.

Teaching, Learning and Assessment

The award will include a diverse range and variety of learning activities. These may include lectures, tutorials, seminars, practicals, discussion and work experiences.

Information central to a module will be principally delivered by lectures with a proportion through directed e-learning. Fundamental principles will be reinforced and given applied relevance by case studies within tutorials and seminars.

Increasingly, problem based exercises will be used to enable the application of knowledge to actual situations. Group working will be encouraged both within formal sessions and on-line.

Practical skills will be undertaken and practiced to increasing levels of independence from the use of elementary equipment, to more advanced skills development and ultimately to the independent final year project as students progress through the course.

Vocational experience and relevance will be promoted by the Work Experience module, Sandwich Placement and the use within modules of presentations by guest speakers with vocational specialism to emphasise the applied relevance of module content.

Digital literacy: This will be central to most activities. This will range from module organisation, familiarisation with core module content, literature searching, data analysis with interpretation and production of various forms of assessed work (including essays, posters, visual aids and practical reports) for formative and summative submission. Assessed work is increasingly submitted, marked and made available for feedback electronically.

Knowledge and Enterprising: The use of problem based teaching and application of information will enable an appreciation of fundamental knowledge and how principles can be put to use. These approaches enable the development of enterprising mechanisms for solving problems. Students will be encouraged to seek placement and to gain industrial experience which will require enterprise in job seeking.

Global Citizens: Throughout the course students will be given the opportunity to consider case studies and real life situations which will be drawn not only from UK examples but also worldwide, to give an international perspective.

Reference Points
Academic Regulations Exemptions

None

Support with your studies

University Learning Centres are the key source of academic information for students providing access to:

- Physical library resources (books, journal, DVDs etc.)
- Study areas to allow students to study in the environment that suits them best: Social areas, quiet and silent areas.
- A wide range of online information sources, including eBooks, e-journals and subject databases
- Academic skills support via the Skills for Learning programme
- Students on campus can attend workshops or ask for one-to-one help on a range of skills such as academic writing and referencing.
- Dedicated Subject Pages to enable you to explore key online information sources that are recommended for their studies.
- Physical access to local libraries both in UK and overseas via SCONUL and WorldCat agreements

We also strongly advise you to download to “MyWLV” student app. MyWLV is a single point of personalised access to the variety of systems the University offers. This includes pulling through relevant information (e.g. deadlines, timetables) and linking to underlying systems.

Leave of Absence:

The University allows breaks in learning of up to two years and there is a process for applying for a leave of absence, which can be accessed through your e:Vision account. Initially you will need to apply for the leave of absence, which could be for medical, parental or personal reasons. A short-term absence, such as annual leave, must not be recorded as a break. The course leader will consider, and where appropriate agree, the leave of absence application. A return date will be identified and agreed for a suitable point in the programme. Additional course fees may be incurred as a result of a leave of absence and you are advised to discuss this with the Faculty Student Services team prior to application.

Course Specific Support

A well established system of proven effectiveness will exist for student support throughout the course. Students will have readily accessible (made possible via the SAMS appointment system) separate personal and award tutors to give guidance and assistance with course and module related problems as necessary.

Academic skills will be introduced initially by the Biosciences Skills module which runs throughout the first year to provide a foundation in literature searching, data collection, statistical analysis and scientific presentation, including writing, referencing and oral presentation. The skills module will support both generic and practical skills which will be used on related modules during the year.

These skills will then be developed throughout modules with specific emphasis on particular skills for example group working (4AB012), practical competence (5BC003 and (5AB007/5AB012), preparation for project (5AB012) case studies (6AB005) and oral presentation (6AB003).

Development of skills will be assisted by workshops and formative assessment exercises to prepare for summative assessment with timely and constructive feedback from assessed work to foster experiential learning.
Contact Hours

In higher education, the term 'contact hours' is used very broadly, to refer to the amount of time that you spend learning in contact with teaching or associated staff, when studying for a particular course.

This time provides you with the support in developing your subject knowledge and skills, and opportunities to develop and reflect on your own, independent learning. Contact time can take a wide variety of forms depending on your subject, as well as where and how you are studying. Some of the most common examples are:

- lectures
- seminars
- tutorials
- project supervisions
- demonstrations
- practical classes and workshops
- supervised time in a studio/workshop
- fieldwork
- external visits
- work-based learning (including placements)
- scheduled virtual interaction with tutor such as on line, skype, telephone

In UK higher education, you as the student take primary responsibility for your own learning. In this context, contact time with teaching and associated staff is there to help shape and guide your studies. It may be used to introduce new ideas and equip you with certain knowledge or skills, demonstrate practical skills for you to practise independently, offer guidance on project work, or to provide personalised feedback.

Alongside contact time, private or independent study is therefore very significant. This is the time that you spend learning without direct supervision from, or contact with, a member of staff. It might include background reading, preparation for seminars or tutorials, follow-up work, wider practice, the completion of assignments, revision, and so on.

50 Day Engagement:

You will be withdrawn from the University if you fail to engage with the academic requirements of your course of study, within 50 days of the course start date, following repeated and reasonable attempts by the University to contact you.

Course Specific Health and Safety Issues

No specific health and safety issues have been recorded for this provision, but should this change your Course Leader will make you aware of this and provide relevant guidance as appropriate.

Course Fact File
**Hierarchy of Awards:**
- Bachelor of Science with Honours Biological Sciences, having satisfactorily completed a sandwich placement
- Bachelor of Science Biological Sciences, having satisfactorily completed a sandwich placement
- Bachelor of Science with Honours Biological Sciences
- Diploma of Higher Education Applied Sciences
- Certificate of Higher Education Applied Sciences
- University Statement of Credit

<table>
<thead>
<tr>
<th>Course Codes:</th>
<th>AB011K23UV</th>
<th>Sandwich</th>
<th>4 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCAS Code:</td>
<td>C121</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Awarding Body / Institution:</td>
<td>University of Wolverhampton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School / Institute:</td>
<td>Wolverhampton School of Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Category of Partnership:</td>
<td>Not delivered in partnership</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location of Delivery:</td>
<td>University of Wolverhampton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teaching Institution:</td>
<td>University of Wolverhampton</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Published: 15-Aug-2018 (Auto Published)