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:

| Faculty of Science and Engineering (City Campus) | Alan Turing Building MI 024 | (01902) 322129 | fsestudentservices@wlv.ac.uk |
| Faculty of Science and Engineering (Telford Campus) | The Darby Building SC 041 | (01902) 322129 | fsestudentservices@wlv.ac.uk |
| Help and Advice is also available from Student Support & Wellbeing... | Contact us at the Alan Turing Building MI 001 for all enquiries and referrals... Services operate at all campuses by appointment. | (01902) 321074 | (01902) 321070 | ssw@wlv.ac.uk money@wlv.ac.uk |

Welcome from the Course Leader

On behalf of the teaching and support teams from BSc(Hons) Pharmaceutical Science 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 Claire Martin and I am the course leader for your BSc(Hons) Pharmaceutical Science course and alongside your personal tutor, will be your main point of contact over the duration of your studies. My contact
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.

Claire Martin

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>
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<tbody>
<tr>
<td>Head of Department</td>
<td>Stephen Britland</td>
<td></td>
<td><a href="mailto:S.Britland@wlv.ac.uk">S.Britland@wlv.ac.uk</a></td>
<td>2140</td>
<td>MA125c</td>
</tr>
<tr>
<td>Course Leader</td>
<td>Claire Martin</td>
<td></td>
<td><a href="mailto:claire.martin2@wlv.ac.uk">claire.martin2@wlv.ac.uk</a></td>
<td>2149</td>
<td>MA122a</td>
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Educational Aims of the Course

The BSc Pharmaceutical Science course will provide you with a range of progressive, coherent and challenging learning opportunities informed by research, scholarly activity and appropriate development of skills. Pharmaceutical Science is a relatively new discipline and is concerned with fostering a multidisciplinary approach towards the study of exciting new developments in the chemical, biological and biomedical science areas focusing upon the biochemistry, pharmacology, design, methods of analysis and delivery of pharmaceutical substances. You will also be supported in the development of intellectual and key interpersonal skills as well as subject knowledge that will equip you for life-long learning and employability. Completion of this course with a minimum grade of a 2:2(Hons) will allow you to progress onto the MSci Pharmaceutical Science course at level 7.

The course aims to produce high quality pharmaceutical science graduates with the generic, subject-specific and transferable knowledge and skills suited to a career in the pharmaceutical industry or other related laboratory-based scientific disciplines. You will have the opportunity to study the Wolverhampton Employability Award up to gold level. You will also be supported in seeking placement opportunities either as a sandwich year or over the summer vacation.

What makes this programme distinctive?

The course will provide you with a range of progressive and challenging learning opportunities informed by research and scholarly activity. The integrated approach will foster the development of a broad knowledge base which will equip you for the demands on the modern pharmaceutical industry.
Course Structure

September (Full-Time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
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<th>Period</th>
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<tr>
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<td>The Physicochemical Nature of Drugs</td>
<td>20</td>
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<td>Core</td>
<td>Waseem Kaialy</td>
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<td>4BM004</td>
<td>Human Structure and Function</td>
<td>20</td>
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<td>4PY012</td>
<td>Scientific Communication and Undergraduate Development</td>
<td>20</td>
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<td>4PY009</td>
<td>Principles of Drug Action</td>
<td>20</td>
<td>SEM2</td>
<td>Core</td>
<td>Sarah Jones</td>
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<tr>
<td>4PY008</td>
<td>Introduction to Microbiology</td>
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<td>Martin Goldberg</td>
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<td>4PY013</td>
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<td>20</td>
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Course Learning Outcomes

<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Contributing Modules</th>
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| CertHE Course Learning Outcome 1 (CHECLO1) | 4BM004 Human Structure and Function  
4PY008 Introduction to Microbiology  
4PY009 Principles of Drug Action  
4PY011 The Physicochemical Nature of Drugs  
4PY013 Molecular Basis of Life |
| CertHE Course Learning Outcome 2 (CHECLO2) | 4BM004 Human Structure and Function  
4PY009 Principles of Drug Action  
4PY012 Scientific Communication and Undergraduate Development  
4PY013 Molecular Basis of Life |
| CertHE Course Learning Outcome 3 (CHECLO3) | 4BM004 Human Structure and Function  
4PY009 Principles of Drug Action  
4PY011 The Physicochemical Nature of Drugs  
4PY012 Scientific Communication and Undergraduate Development  
4PY013 Molecular Basis of Life |
| CertHE Course Learning Outcome 4 (CHECLO4) | 4BM004 Human Structure and Function  
4PY008 Introduction to Microbiology  
4PY009 Principles of Drug Action  
4PY011 The Physicochemical Nature of Drugs  
4PY012 Scientific Communication and Undergraduate Development  
4PY013 Molecular Basis of Life |
| CertHE Course Learning Outcome 5 (CHECLO5) | 4PY008 Introduction to Microbiology  
4PY011 The Physicochemical Nature of Drugs  
4PY012 Scientific Communication and Undergraduate Development |
### 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 Course Learning Outcome 1 (ORDCLO1)
Demonstrate a systematic understanding of key aspects of pharmaceutical science, including acquisition of coherent and detailed knowledge, at least some of which is at, or informed by, the forefront of defined aspects of a discipline with an appreciation of the uncertainty, ambiguity and limits of knowledge.

### Ordinary Course Learning Outcome 2 (ORDCLO2)
Demonstrate an ability to deploy accurately established techniques of analysis and enquiry within pharmaceutical science and apply the methods and techniques that they have learned to review, consolidate, extend and apply your knowledge and understanding, and to initiate and...
Ordinary Course Learning Outcome 3 (ORDCLO3)
Demonstrate conceptual understanding that enables the student: A) to devise and sustain arguments, and/or to solve problems, using ideas and techniques, some of which are at the forefront of a discipline. B) to describe and comment upon particular aspects of current research, or equivalent advanced scholarship, in the discipline.

Ordinary Course Learning Outcome 4 (ORDCLO4)
Demonstrate the ability to manage your own learning, and to make use of scholarly reviews and primary sources (for example, refereed research articles and/or original materials appropriate to the discipline) and communicate information, ideas, problems and solutions to both specialist and non-specialist audiences.

Ordinary Course Learning Outcome 5 (ORDCLO5)
Critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), to make judgements, and to frame appropriate questions to achieve a solution - or identify a range of solutions - to a problem.

Ordinary Course Learning Outcome 6 (ORDCLO6)
Demonstrate the qualities and transferable skills necessary for employment requiring: A) the exercise of initiative and personal responsibility. B) decision-making in complex and unpredictable contexts. C) the learning ability needed to undertake appropriate further training of a professional or equivalent nature.

Honours Course Learning Outcome 1 (DEGCLO1)
Demonstrate a systematic understanding of key aspects of pharmaceutical science, including acquisition of coherent and detailed knowledge, at least some of which is at, or informed by, the forefront of defined aspects of a discipline with an appreciation of the uncertainty, ambiguity and limits of knowledge.

Honours Course Learning Outcome 2 (DEGCLO2)
Demonstrate an ability to deploy accurately established techniques of analysis and enquiry within pharmaceutical science and apply the methods and techniques that they have learned to review, consolidate, extend and apply your knowledge and understanding, and to initiate and carry out projects.

Honours Course Learning Outcome 3 (DEGCLO3)
Demonstrate conceptual understanding that
enables the student: A) to devise and sustain arguments, and/or to solve problems, using ideas and techniques, some of which are at the forefront of a discipline. B) to describe and comment upon particular aspects of current research, or equivalent advanced scholarship, in the discipline.

**Honours Course Learning Outcome 4**

(DEGCLO4)

Demonstrate the ability to manage your own learning, and to make use of scholarly reviews and primary sources (for example, refereed research articles and/or original materials appropriate to pharmaceutical science) and communicate information, ideas, problems and solutions to both specialist and non-specialist audiences.

**Honours Course Learning Outcome 5**

(DEGCLO5)

Critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), to make judgements, and to frame appropriate questions to achieve a solution - or identify a range of solutions - to a problem.

**Honours Course Learning Outcome 6**

(DEGCLO6)

Demonstrate the qualities and transferable skills necessary for employment requiring: A) the exercise of initiative and personal responsibility. B) decision-making in complex and unpredictable contexts. C) the learning ability needed to undertake appropriate further training of a professional or equivalent nature.

**PSRB**

None

**Employability in the Curriculum**

This programme will provide career opportunities in the areas of drug design and development, basic developmental research and clinical trials. The programme will also enable progression to research at the Doctoral level.

**Teaching, Learning and Assessment**

You will undertake a wide range of learning activities including:

- Computer based learning
- Supported learning using the University VLE (CANVAS) for information, synchronous and asynchronous communications
- Lectures
- Tutorials (small group)
- Tutorials (one-to-one)
• Workshops
• Case studies
• Structured laboratory exercises
• Individual structured assignment-based learning
• Directed study
• Individual or group investigative practical exercises
• Individual and group research project investigations
• Group work to develop and assess a wide range of manipulative, logic and other transferable skills.

Assessment methods will include:-

• Written reports
• Essays
• Literature reviews
• Exams
• Group presentations
• Poster presentations

All summative assessments will be supported by equivalent formative assessments which will enable you to gain the skills necessary to achieve the learning outcomes of the course. A particular focus will be placed on practical and analytical skills and support to develop these will be provided through extensive practical training at each level of the course. Analytical skills will be developed sequentially throughout each year of the course and you will gain extensive experience in data generation, interpretation and manipulation. Workshops and small group tutorials will provide extensive support in developing these skills.

The overall aim of the course is to develop independent learners who are able to reflect on their learning in a professional manner and apply acquired knowledge in an integrated fashion.

Learning and Teaching Methods

This data indicates the proportion of time in each year of study that students can expect to engage in the following activities (expressed as a percentage for each level).

<table>
<thead>
<tr>
<th>Level</th>
<th>Teaching</th>
<th>Independent</th>
<th>Placement</th>
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<tr>
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<td>78</td>
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<tr>
<td>5</td>
<td>24</td>
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<tr>
<td>6</td>
<td>24</td>
<td>76</td>
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</table>

Assessment Methods

This data indicates the proportion of summative assessment in each year of study that will derive from the following: (expressed as a percentage for each level).

<table>
<thead>
<tr>
<th>Level</th>
<th>Written Exams</th>
<th>Practical Exams</th>
<th>Coursework</th>
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<tr>
<td>4</td>
<td>65</td>
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<tr>
<td>6</td>
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Reference Points
Quality Code - Part A: Setting and Maintaining Academic Standards, Including:
- Qualifications Frameworks
- Characteristics Statements
- Credit Frameworks
- Subject Benchmark Statements - QAA Benchmarks for Pharmacy: http://www.qaa.ac.uk/academicinfrastructure/benchmark/honours/pharmacy
- Quality Code - Part B: Assuring and Enhancing Academic Quality
- University Policies and Regulations
- Equality Act (2010)

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.

Course Specific Support

Students will be assigned individual tutors who will be available to discuss academic progress. Students will also be made aware of the learning support available via the learning centre. Academic study skills are embedded into the course.

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.

Course Specific Health and Safety Issues

All students in the faculty of Science and Engineering are required to take and pass their Schools Health and Safety Assessment. All assessments are available on this web site FSE Welcome Web Site and you will only be allowed to carry out any practical work once you have passed the relevant assessments. All assessments should be completed as before teaching commences.

The assessments are live from the 12th September and can be accessed from this link School of Pharmacy

Course Fact File

<table>
<thead>
<tr>
<th>Hierarchy of Awards:</th>
<th>Bachelor of Science with Honours Pharmaceutical Science</th>
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<td>Bachelor of Science Pharmaceutical Science</td>
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<td>Diploma of Higher Education Pharmaceutical Science</td>
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<tbody>
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Published: 04-Aug-2017 by Bhavna Parmar