MSc PHARMACEUTICAL SCIENCE COURSE SPECIFICATION

Course Aim and Title	MSc Pharmaceutical Science
Intermediate Awards Available	PGCert, PGDip.
Teaching Institution(s)	University of East London on campus
Alternative Teaching Institutions (for local arrangements see final section of this specification)	
UEL Academic School	Health, Sport and Bioscience
UCAS Code	
Professional Body Accreditation	-
Relevant QAA Benchmark Statements	Biosciences
Additional Versions of this Course	
Date Specification Last Updated	April 2019

Course Aims and Learning Outcomes

The Aims of this course is to enable postgraduate students to gain a detailed understanding of both practical and theoretical aspects of pharmaceutical science and equip them with the necessary skills to undertake individual and collaborative research. The course will enable students to pursue a career in pharmaceutical research allied to drug development with global pharmaceutical companies, small-medium biotechnological enterprises, government funded research institutes and laboratories.

This course is designed to give you the opportunity to:

• Demonstrate an in-depth knowledge of specialised areas of Pharmaceutical Science and have an appreciation of the current range of theoretical and research understanding in those areas.

• Create, design and explore a research question in a specialised area of Pharmaceutical Science and evaluate this research with appropriate justification or create, design and explore a work-based learning project to evaluate an issue in practice.

• Have a systematic awareness of knowledge and a critical awareness of current problems and new insights, much of which is at, or informed by, the forefront of Pharmaceutical Science, drug design and development, quality control and drug regulation.

• Have a comprehensive understanding of the latest research techniques used in the Pharmaceutical industry.

• Communicate effectively with a wide range of audiences using a variety of methods including written and oral presentations.

• Design and develop high quality research project and research proposal and present it in a suitable form.

What you will learn:

Knowledge

- An in-depth knowledge of pharmaceutical science including themes in traditional pharmacology to cutting edge technologies used in the pharmaceutical industry.
- A detailed appreciation of the current theories and research developments in Pharmaceutical Science.
- Traditional drug development strategies to the search for new drugs from natural products and the employment of 3-dimensional modelling
- An awareness of pharmaceutical research and its importance in drug development.
- Understanding of the laboratory procedures and techniques used, which will allow the rapid acquisition of more specialist skills later in their career.
- An awareness of the wider implications of scientific research on society as a whole.

Thinking skills

- The ability to use integrated approaches to analyse and interpret complex and contradictory scientific information autonomously and to accurately assess and criticise your own and others' work.
- An awareness and understanding of the ethical constraints associated within the field of Pharmaceutical Science and the ability to relate these to your own experience.
- The ability to contribute to the development of the subject through applied study or research
- The ability to think creatively to analyse and solve problems in science.

Subject-Based Practical skills

- The ability to select and apply a range of practical skills relevant to Pharmaceutical Science.
- A higher level of competence in laboratory skills in Pharmaceutical Science.
- An ability to isolate, assess and resolve problems independently and to react effectively to unusual and unexpected situations.
- An improved ability to engage in professional and academic communication with others in the field of pharmaceutical science.

- The ability to select and utilise appropriate computer software, and to understand its limitations in presenting scientific data.

Skills for life and work (general skills)

- Increased ability to take responsibility for your own learning and the ability to work with and motivate others effectively.
- Ability to reflect critically on your own and others' performance resulting in the improvement of subsequent actions.
- Increased confidence in your own abilities.
- Improved skills in written and verbal communication of complex information.

Learning and Teaching

Knowledge is developed through

- Lectures
- Seminars and workshops
- Student centred learning – directed reading, assignment preparation

Thinking skills are developed through

- Tutorials
- Seminars and workshops
- Report writing and assignments
- Project work

Practical skills are developed through

- Laboratory practical sessions
- Individual research project
- Data analysis exercises
- Use of IT and library-based resources
- Student presentations

Skills for life and work (general skills) are developed through

- Student centred learning
- Seminar and workshop discussions
- Oral and written presentations
- Computer assignments

- Managing time
- Team work

Assessment

Knowledge is assessed by

- Examinations and coursework (in the taught core course modules emphasis will be given to work-based coursework)
- Interim reports and Final oral examination

Thinking skills are assessed by

- Examinations and coursework (in the taught core course modules emphasis will be given to work-based coursework)
- Final oral examination
- Tutorials with University and work-based supervisors

Practical skills are assessed by

- The ability to carry out laboratory practical work effectively, within the timeframe allocated.
- The ability to interpret and report on work carried out in the laboratory.
- The ability to complete assignments using appropriate resources.
- Evidence of logical planning and management of time in the preparation of materials for assessment.

Skills for life and work (general skills) are assessed by

- Laboratory practical/coursework (in the taught core course modules emphasis will be given to work-based coursework)
- Coursework reports

Work or Study Placements

Not applicable

Course Structure

All courses are credit-rated to help you to understand the amount and level of study that is needed.

One credit is equal to 10 hours of directed study time (this includes everything you do e.g. lecture, seminar and private study).

Credits are assigned to one of 5 levels:

3 Equivalent in standard to GCE 'A' level and is intended to prepare students for year one of an undergraduate degree course.
4 Equivalent in standard to the first year of a full-time undergraduate degree course.
5 Equivalent in standard to the second year of a full-time undergraduate degree course.
6 Equivalent in standard to the third year of a full-time undergraduate degree course.
7 Equivalent in standard to a master's degree.

Courses are made up of modules that are each credit weighted.

The module structure of this course:

Level	Module Code	Module Title	Credit Weighting	Core/Option	Available by Distance Learning? Y/N
7	BS7200	Experimental Techniques and Laboratory Practice	30	Core	N
7	BS7204	Drug Discovery, Design and Development	30	Core	N
7	BS7201	Evidence-based practice and career development (Mental Wealth)	30	Core	N
7	BS7207	Clinical Biochemistry and Toxicology	30	Option	N
7	BS7209	Advanced Pharmaceutical Analysis and Quality Control	30	Option	N
7	BS7208	Health and Disease of Physiological Systems	30	Option	N

7	BS7202	Research Dissertation	60	Core	N
7	BS7099	Level 7 Short Work Placement	0	Option	N

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, in order to create the best learning experience.

Additional detail about the course module structure:

All students will study the core modules.

Students who wish for the named specialism in Advanced Pharmaceutical Analysis and Quality Control will study the core modules including a research project in the specialism, and BS7209 (Advanced Pharmaceutical Analysis and quality control).

Students who wish for the named specialism in Clinical Biochemistry and Toxicology will study the core modules including a research project in the specialism and BS7207 (Clinical Biochemistry and Toxicology).

Students who wish for the named specialism in Health and Disease of Physiological Systems will study the core modules including a research project in the specialism and BS7208 (Health and Disease of Physiological Systems).

The overall credit-rating of this course is 180 credits. If for some reason you are unable to achieve this credit you may be entitled to an intermediate award, the level of the award will depend on the amount of credit you have accumulated.

To gain a Postgraduate Certificate, you will need to obtain 60 credits.

To gain a Postgraduate Diploma, you will need to obtain 120 credits.

For further information you can read the University Student Policies and Regulations on the UEL website.

Course Specific Regulations

Include any detail about exemptions/variations in regulations or professional body requirements, e.g., This course has a different classification calculation as a professional body requirement, the calculation is…

Typical Duration

It is possible to move from full-time to part-time study and vice-versa to accommodate any external factors such as financial constraints or domestic commitments. Many of our students make use of this flexibility and this may impact on the overall duration of their study period.

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The duration of this course is one calendar year full-time if enrolment is in September, and two calendar years part-time. For February enrolment, the duration becomes 15 months full time, and 27 months part-time. The time limit for completion of a course is four years after first enrolment on the course.

Further Information

More information about this course is available from:

- The UEL web site (www.uel.ac.uk)
- The course handbook
- Module study guides
- UEL Manual of General Regulations (available on the UEL website)
- UEL Quality Manual (available on the UEL website)
- School web pages

All UEL courses are subject to thorough course approval procedures before we allow them to commence. We also constantly monitor, review and enhance our courses by listening to student and employer views and the views of external examiners and advisors.

Additional costs:

None

Alternative Locations of Delivery

None