

**1. Programme title(s) and code(s)**

BSc Pharmaceutical Chemistry

**HECOS Code**

| HECOS Code | %    |
|------------|------|
| 100423     | 100% |

**2. Awarding body or institution**

University of Leicester

**3. a) Mode of study**

Full-time

**b) Type of study**

Campus-based in Panjin campus, Dalian University of Technology, PRC

**4. Registration periods**

The normal period of registration for the BSc is four years

The maximum period of registration for the BSc is six years

**5. Typical entry requirements**

All students that have followed the Chinese school and qualification system must be from the same Gaokao group (the top group out of four) as students entering other DUT undergraduate programmes. Students must also possess a sufficient level of English language to enable such students to undertake studies with the English language as the teaching medium.

For Year 1 entry, a Gaokao English language score of 70% for English language or an IELTS score of 5.0 will be required. After intensive English language teaching in Year 1, students will be required to demonstrate CEFR Level B2 in English language (otherwise IELTS 6.0).

**6. Accreditation of Prior Learning**

APL will not be accepted for exemptions from individual modules, however may be considered for direct entry to Year 2, on a case-by-case basis and subject to the general provisions of the University APL policy.

**7. Programme aims**

The programme aims:

- To provide a broad and in-depth understanding of ideas central to pharmaceutical chemistry and drug discovery
- To provide a broad understanding of the processes involved in development of new drugs including drug design, discovery, mode of action and production
- To provide students with direct experience of a UK-style degree programme
- To enhance and develop the students' English language skills

- To train students in the practical skills necessary for the safe manipulation and analysis of pharmaceutical agents
- To generate interest in, and understanding of, the wider role of pharmaceutical chemistry in society e.g. industry and commerce
- To enable students to develop independent learning skills as well as the experience of working as part of a team
- To stimulate intellectual development, develop powers of critical analysis and ability to solve problems
- To enhance written and oral communication skills
- To provide students with training in mathematical techniques and IT skills
- To introduce students to chemical research methodology through carrying out a research project
- To introduce students to some topics of current chemical or pharmaceutical chemistry research
- To equip students with the knowledge and generic skills for employment or further training in R&D, science-based industry and establishments, education, and for training at management levels in other professions

#### 8. Reference points used to inform the programme specification

- [QAA Benchmarking Statement for Chemistry](#)
- Framework for Higher Education Qualifications (FHEQ)
- UK Quality Code for Higher Education
- [University Education Strategy](#)
- [University Assessment Strategy](#) [login required]
- University of Leicester Periodic Developmental Review Report
- External Examiners' reports (annual)
- United Nations Education for Sustainable Development Goals
- Student Destinations Data

#### 9. Programme Outcomes

Unless otherwise stated, programme outcomes apply to all awards specified in 1. Programme title(s).

##### a) Discipline specific knowledge and competencies

##### i) Mastery of an appropriate body of knowledge

| Intended Learning Outcomes   | Teaching and Learning Methods  | How Demonstrated?   |
|--|--|---|
| Typical students should be able to:  |  |   |
| recall and apply basic chemistry theory in chemistry (specifically organic chemistry, related mathematics, biochemistry and process of drug discovery. | Lectures; Directed reading; Problem classes; Tutorials; Laboratory Practical Classes; Computer aided training. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work |
| solve structured and unseen model problems   | Lectures; Directed reading; Problem classes; Tutorials; Laboratory Practical Classes; Computer aided training. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work |

| Intended Learning Outcomes   | Teaching and Learning Methods  | How Demonstrated?   |
|--|--|---|
| conduct experiments and apply practical techniques.  | Lectures; Directed reading; Problem classes; Tutorials; Laboratory Practical Classes; Computer aided training. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work |
| demonstrate detailed knowledge of selected topics in organic chemistry, pharmaceutical chemistry and drug discovery. | Lectures; Directed reading; Problem classes; computer aided training; Project supervision                      | Written exams; assessed computer exercises; project assessment.                                       |

ii) Understanding and application of key concepts and techniques

| Intended Learning Outcomes  | Teaching and Learning Methods   | How Demonstrated?   |
|---|---|---|
| Typical students should be able to:   |   |   |
| apply chemical and biochemical concepts in new situations e.g. ability to predict physical and chemical properties by comparison with analogues | Lectures; Directed Reading; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| apply logic and chemical knowledge to make deductions based on (limited) evidence   | Lectures; Directed Reading; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| solve familiar and unfamiliar chemistry, and pharmaceutical chemistry related problems  | Lectures; Directed Reading; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| design, construct and undertake experiments   | Lectures; Directed Reading; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| demonstrate professional use of standard equipment and knowledge of and application of safety procedures.                                       | Lectures; Directed Reading; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |

iii) Critical analysis of key issues

| Intended Learning Outcomes          | Teaching and Learning Methods | How Demonstrated? |
|-------------------------------------|-------------------------------|-------------------|
| Typical students should be able to: |                               |                   |

| <b>Intended Learning Outcomes</b>   | <b>Teaching and Learning Methods</b>  | <b>How Demonstrated?</b>  |
|---|---|---|
| critically appraise physical, chemical and biochemical information, and discuss its limitations | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| summarise key findings of scientific papers   | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| draw quantitative conclusions from sample data  | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| critically assess and compare scientific theories   | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |

iv) Clear and concise presentation of material

| <b>Intended Learning Outcomes</b>   | <b>Teaching and Learning Methods</b>   | <b>How Demonstrated?</b>   |
|---|--|--|
| Typical students should be able to:   |  |  |
| present scientific ideas, data and results in a variety of (appropriate) forms, e.g. reports, seminars, posters | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| use chemical software, e.g. drawing, molecular modelling, molecular visualisers                                 | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |

| <b>Intended Learning Outcomes</b>                | <b>Teaching and Learning Methods</b>   | <b>How Demonstrated?</b>   |
|--|--|--|
| participate in scientific discussion and debate. | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |

v) Critical appraisal of evidence with appropriate insight

| <b>Intended Learning Outcomes</b>              | <b>Teaching and Learning Methods</b>   | <b>How Demonstrated?</b>   |
|--|--|--|
| Typical students should be able to:            |  |  |
| discuss and implement experimental methodology | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| collect and critically analyse data            | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| draw valid inferences from data                | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| interrogate and discuss scientific literature. | Tutorials, Laboratory Practical Classes; Group projects; Problem classes; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |

vi) Other discipline specific competencies

| <b>Intended Learning Outcomes</b>   | <b>Teaching and Learning Methods</b>                      | <b>How Demonstrated?</b>           |
|-------------------------------------|---|------------------------------------|
| Typical students should be able to: |   |                                    |
| respond to questioning              | Tutorials; Group project supervision; Project supervision | Tutorial work; project assessment. |
| give a short seminar.               | Tutorials; Group project supervision; Project supervision | Tutorial work; project assessment. |

**b) Transferable skills**

## i) Oral communication

| Intended Learning Outcomes                                | Teaching and Learning Methods   | How Demonstrated?  |
|---|---|--|
| In English, typical students should be able to:           |   |  |
| give reasoned arguments in response to chemical questions | Tutorials; Group work; Group project supervision; Project supervision | Tutorial work; Oral project presentations and examinations |
| give a short seminar on a chemical topic                  | Tutorials; Group work; Group project supervision; Project supervision | Tutorial work; Oral project presentations and examinations |

## ii) Written communication

| Intended Learning Outcomes  | Teaching and Learning Methods   | How Demonstrated?   |
|---|---|---|
| In English, typical students should be able to:   |   |   |
| write abstracts, tutorial and problem class work, lab notebooks, lab reports and project dissertation | Lectures; Tutorials; Practical classes; Group work; Writing workshops; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; assessed essays; tutorial work; project assessment. |
| communicate scientifically.   | Lectures; Tutorials; Practical classes; Group work; Writing workshops; Project supervision. | Assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; assessed essays; tutorial work; project assessment. |

## iii) Information technology

| Intended Learning Outcomes   | Teaching and Learning Methods                                       | How Demonstrated?   |
|--|---|---|
| Typical students should be able to:  |   |   |
| use mathematical packages for data analysis  | Problem classes; Practical classes; Group work; Project supervision | Assessed practical work; assessed computer exercises; project assessment. |
| use spreadsheets, presentation and word processing facilities                      | Problem classes; Practical classes; Group work; Project supervision | Assessed practical work; assessed computer exercises; project assessment. |
| use scientific software packages, e.g. drawing or molecular modelling/visualisers. | Problem classes; Practical classes; Group work; Project supervision | Assessed practical work; assessed computer exercises; project assessment. |

## iv) Numeracy

| Intended Learning Outcomes          | Teaching and Learning Methods | How Demonstrated? |
|-------------------------------------|-------------------------------|-------------------|
| Typical students should be able to: |                               |                   |

| Intended Learning Outcomes                 | Teaching and Learning Methods    | How Demonstrated?   |
|--|----------------------------------|---|
| use analytical and graphical methods       | Progressively throughout course. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| use calculus in Chemistry and Biochemistry | Progressively throughout course. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| analyse data                               | Progressively throughout course. | Written exams; assessed practical work, including lab samples, associated data, lab notebooks and reports; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| solve numerical problems.                  | Progressively throughout course. |   |

v) Team working

| Intended Learning Outcomes                              | Teaching and Learning Methods                              | How Demonstrated?   |
|---|--|---|
| Typical students should be able to:                     | Group problem solving; Group projects; Project supervision | Group assessments (oral and written); project assessment. |
| discuss concepts and formulate plans working with peers | Group problem solving; Group projects; Project supervision | Group assessments (oral and written); project assessment. |
| organize time and tasks                                 | Group problem solving; Group projects; Project supervision | Group assessments (oral and written); project assessment. |
| produce joint reports/presentations                     | Group problem solving; Group projects; Project supervision | Group assessments (oral and written); project assessment. |
| recognize individual strengths.                         | Group problem solving; Group projects; Project supervision | Group assessments (oral and written); project assessment. |

vi) Problem solving

| Intended Learning Outcomes                         | Teaching and Learning Methods   | How Demonstrated?  |
|--|---|--|
| Typical students should be able to:                |   |  |
| apply knowledge                                    | Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| analyse and solve familiar and unfamiliar problems | Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work; project assessment. |

| <b>Intended Learning Outcomes</b>                | <b>Teaching and Learning Methods</b>  | <b>How Demonstrated?</b>   |
|--|---|--|
| plan and implement laboratory work and projects. | Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work; project assessment. |

vii) Information handling

| <b>Intended Learning Outcomes</b>  | <b>Teaching and Learning Methods</b>  | <b>How Demonstrated?</b>   |
|--|---|--|
| Typical students should be able to:  |   |  |
| describe and discuss the scientific method   | Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| gather, retrieve, manipulate and analyse chemical and biochemical data and information from a variety of sources including scientific journals and databases | Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work; project assessment. |
| present data in appropriate forms.   | Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Computer aided learning; Project supervision. | Written exams; assessed practical work; assessed computer exercises; assessed problems; tutorial work; project assessment. |

viii) Skills for lifelong learning

| <b>Intended Learning Outcomes</b>  | <b>Teaching and Learning Methods</b>  | <b>How Demonstrated?</b>  |
|--|---|---|
| Typical students should be able to:  |   |   |
| demonstrate understanding of the professional responsibilities of a chemist/pharmaceutical chemist | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |
| develop their study and time management skills   | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |

| Intended Learning Outcomes                          | Teaching and Learning Methods   | How Demonstrated?   |
|---|---|---|
| learn independently                                 | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |
| access and search scholarly articles and databases  | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |
| retrieve information                                | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |
| analyse data  | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |
| work in groups                                      | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |
| plan and implement group and individual activities. | Progressively through the programme, particularly in the 4th year.<br><br>Lectures; Problem Classes; Tutorials; Laboratory Practical Classes; Group projects; Computer aided learning; Project supervision. | Meeting deadlines; All assessment elements; Project assessment. |

## 10. Progression points

This programme follows the standard Scheme of Progression set out in [Senate Regulations](#) – see the version of Senate Regulation 5 governing undergraduate programmes relevant to the year of entry.

The following additional progression requirements for this programme have been approved:

There are two progression points in each academic year: end of Semester 1 and end of Semester 2 of the DUT-DLI teaching calendar. A progression decision is made by the DLI Board of Examiners on the basis of the Semester 1 exam/resit results in March and Semester 2 exam/resit results in July each year. Where it is known following Semester 1 that a student can no longer meet the requirements to progress to the next year, they may be required to suspend their studies at that stage.

### **Progression from Year 1 to Year 2**

The following additional progression requirements apply to Year 1 of the programme (equivalent to Leicester Foundation Year):

#### ***General***

As the Year 1 of the DLI programme is below the level of entry for HE in the UK, a specific scheme of progression has been designed to ensure that students have evidenced required English language and academic capabilities to study the substantive element of the programme.

Year 1 of the DLI programme consists of courses in English for Academic Purposes (EAP), counting for 60 credits, and subject related theory courses counting for 60 credits, totalling 120 credits.

Student who passes all 120 UoL credits in Year 1 will proceed to Year 2 of the DLI programme. A minimum of 105 credits must be passed in Year 1 for progression to Year 2.

#### **English for Academic Purposes (EAP) Modules (60 credits):**

FAIL EAP Modules: Resit EAP Modules

- As DLI programmes are delivered in English, in order to progress between Year 1 and Year 2 of the DLI programmes, the DLI students will be required to pass all EAP modules.
- Students who have failed to pass all of the EAP modules can be offered ONE re-sit attempt at the next re-sit opportunity available.

FAIL Re-Sit EAP Assessment: REPEAT Year

- Students who have failed EAP modules after one re-sit attempt can be offered REPEAT Year of the Year 1 of the DLI programme in the subsequent academic year.
- Students who subsequently fail the resit EAP modules in a Repeat Year (after a reassessment attempt) will have their course of studies terminated.

#### **Pharmaceutical Chemistry Foundation Module (PCF) (15 credits):**

FAIL PCF Module:

- As DLI programmes are reliant on fundamental chemistry knowledge, based on UK A-level standard, DLI students will be required to pass the Pharmaceutical Chemistry Foundation module CH0272 to progress between year 1 and year 2.
- Students who have failed to pass all of the PCF module can be offered ONE re-sit attempt at the next re-sit opportunity available.

FAIL Re-Sit PCF Assessment: REPEAT Year

- Students who have failed PCF module CH0272 after one re-sit attempt can be offered REPEAT Year of the Year 1 of the DLI programme in the subsequent academic year.
- Students who subsequently fail the resit PCF module in a Repeat Year (after a reassessment attempt) will have their course of studies terminated.

### **Progression from years 2 to 3**

The following additional progression requirements apply to Year 2 of the programme (equivalent to Leicester Year One):

Students must pass the CH1275 chemistry laboratory practical module, for which there are no opportunities for reassessment of the practical components, and which cannot be carried into the subsequent year. These modules have an additional attendance requirement wherein students may not be absent for more than 10% of the scheduled laboratory classes (including submission of post-lab work). Additional “catch-up” sessions will be provided for students for whom non-attendance has been mitigated.

This module is not eligible for compensation and must be passed at 40.00%.

#### Progression from years 3 to 4

The following additional progression requirements apply to Year 3 of the programme (equivalent to Leicester Year Two):

Students must pass the CH2273 and CH2274 chemistry laboratory practical modules, for which there are no opportunities for reassessment of the practical components, and which cannot be carried into the subsequent year. These modules have an additional attendance requirement wherein students may not be absent for more than 10% of the scheduled laboratory classes (including submission of post-lab work). Additional “catch-up” sessions will be provided for students for whom non-attendance has been mitigated.

These modules are not eligible for compensation and must be passed at 40%.

#### **Re-Sit Attempt(s):**

Re-sit attempt and the number of re-sit attempts are considered and offered at the DLI Progression Board at the discretion of the Board in line with the UoL Senate Regulations, with a balanced view of the academic performance across the subject modules throughout the academic year(s), academic demands/challenges from future subject modules in the subsequent year(s) and the category of the failed module.

In cases where a student has failed to meet a requirement to progress he or she will be required to withdraw from the course.

#### **Transfer between different degrees:**

Students not satisfying the UoL progression requirements may be allowed to transfer onto DUT programmes. Students satisfying the UoL progression requirements may be allowed to transfer to the University of Leicester campus-based BSc Chemistry degree programme, subject to capacity and physical resource limitations on the UoL campus.

##### **a) Course transfers**

n/a

## **11. Criteria for award and classification**

This programme follows the standard scheme of undergraduate award and classification set out in [Senate Regulations](#) – see the version of *Senate Regulation 5 governing undergraduate programmes* relevant to the year of entry.

Modules CH3853 and CH3854 must be passed for award. They are not eligible for compensation and must be passed at 40.00%. Reassessment opportunities on these modules are at the discretion of the Board of Examiners.

## 12. Special features

Programme delivered entirely in English with UK-style facilities provided on Panjin campus, small group tutorials via simultaneous on-line classroom approaches, group problem solving, research-based projects, context based learning.

### 12a. Research-inspired Education

Students on this programme will advance through the four quadrants of the University of Leicester Research-inspired Education Framework as follows:

| RiE Quadrant  | Narrative  |
|---|--|
| <b>Research-briefed</b><br>Bringing staff research content into the curriculum.                       | <p>Our programme offers a solid foundation in fundamental inorganic, organic and physical chemistry topics. This, coupled with chemistry-focussed support in mathematics, critical thinking, problem solving and practical skills, provides a good foundation for the research-focussed modules and research project in later years. All of our modules are contextualised through real-world examples and application to solve modern challenges in: catalysis; medicine; materials; sustainability and biotechnology.</p> <p><b>Research-briefed</b> – Students experience challenging and inspiring learning in classes informed by cutting-edge research. Our programme leverages the expertise of our two core research themes: <i>Chemistry for Health</i> and <i>Chemistry for a Sustainable Future</i>, along with other expertise from across the university. Our staff bring their research straight into the classroom, making learning exciting, relevant and highly contextualised to modern-day issues. Additionally, students are exposed to the research culture of the school from their very first year, with a particular highlight being a dedicated series of lectures showcasing the research of selected Leicester chemistry academics.</p> |
| <b>Research-based</b><br>Framed enquiry for exploring existing knowledge.                             | <p><b>Research-based</b> – Students engage in a variety of authentic assessments, working both individually and as a team to solve real-world problems and develop the necessary skills for both research and employment suitable for STEM graduates. This will include how to apply theory concepts to unseen problems; practical techniques, programming, data processing, data analysis; and how to effectively communicate science.</p>  |
| <b>Research-oriented</b><br>Students critique published research content and process.                 | <p><b>Research-oriented</b> – Students will develop the ability to critically appraise their own experimental technique/processes, analyses, and conclusions through lectures, problem classes, laboratory work, computer classes, and authentic assessments. Students receive guidance on evaluating published research and engaging critically with literature through lectures and seminars. Students will also learn to write in the style of scientific research papers, formal reports and populate science articles, enhancing their ability to communicate complex ideas effectively.</p>  |
| <b>Research-apprenticed</b><br>Experiencing the research process and methods; building new knowledge. | <p><b>Research-apprenticed</b> – Our programme provides the training to ensure the students become junior researchers by the end of their degrees. Across the programme students develop crucial transferable skills for both research and future employment, including report writing, group work, presentation skills, reading research papers, and data searching skills. In the final year of the programme students will be able to undertake small research project(s) to practice the transferable skills developed throughout the course and to solve their own research question.</p>   |

**As part of studying at a research-intensive university, students on this programme have the following extra or co-curricular opportunities available to them to gain exposure to research culture:**

In addition to the research-oriented content embedded in the programme's modules, students have several extra-curricular routes to increase their exposure to a global research culture. Flying faculty that visit the DLI campus give lectures on their research in addition to their core teaching. Students on the pathways that visit Leicester have the opportunity to attend the regular academic research lectures that take place and to take advantage of the networking opportunities afforded.

**Teaching on this programme will be research-informed (it draws consciously on systematic inquiry into the teaching and learning process itself) in the following way:**

The teaching in our School is underpinned by the *Research in Chemical Education (RICE)* group, whose reading and contribution to global pedagogic literature promotes the high quality and highly innovative delivery of our programmes. To this end the School has designed an advanced curriculum that promotes excellence, equal opportunity and high performance from its students through innovative practices such as active learning and authentic assessment strategies. These techniques are embedded across all modules in the programme, with all colleagues being regularly briefed and trained to deliver a consistently excellence student experience. The School supports all staff involved in teaching to gain an accredited Higher Education teaching qualification, in which they demonstrate their use of teaching theory to support their own practice and reflect on their current teaching and continuing professional development.

### **13. Indications of programme quality**

All current UK only BSc degrees at Leicester were accredited by the Royal Society of Chemistry (RSC) in Jan 2016 and reaccruited in January 2022. Whilst accreditation for this programme will not be sought, it will use modules from the accredited UK variant.

### **14. External Examiner(s) reports**

The details of the External Examiner(s) for this programme and the most recent External Examiners' reports for this programme can be found at [exampapers@Leicester](mailto:exampapers@Leicester) [log-in required]

## Programme Specification (Undergraduate)

FOR ENTRY YEAR: 2026/27

Date created: 01/08/2025

Last amended: 14/05/2026

Version no. 1

### Appendix 1: Programme structure (programme regulations)

The University regularly reviews its programmes and modules to ensure that they reflect the current status of the discipline and offer the best learning experience to students. On occasion, it may be necessary to alter particular aspects of a course or module.

BSc Pharmaceutical Chemistry (4+0)

**Level 3/Year 0      2026/27      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 60 credits | 60 credits |
| Optional | n/a       | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | EL0002 | University English 1: Speaking and Listening | 15 credits |
| Sem 1           | EL0003 | University English 2: Reading and Writing    | 15 credits |
| Sem 1           | CH0271 | Advanced Maths for Pharmaceutical Chemistry  | 15 credits |
| Sem 1           | CH0276 | Introduction to Clinical Medicine & Pharmacy | 15 credits |
| Sem 1           |        | Military Theory and Training                 | n/a        |

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           |        | Moral Cultivation and Basic Law                          | n/a        |
| Sem 1           |        | Physical Education I                                     | n/a        |
| Sem 1           | EL0004 | University English 3: Project                            |            |
| Sem 2           | EL0005 | English for Specific Academic Purposes                   | 15 credits |
| Sem 2           | CH0272 | Foundation Pharmaceutical Chemistry                      | 15 credits |
| Sem 2           | CH0274 | Cellular and Molecular Biology                           | 15 credits |
| Sem 2           |        | Chinese Modern Contemporary History and Situation Policy | n/a        |
| Sem 2           |        | Military Theory and Training                             | n/a        |
| Sem 2           |        | Principle of Marxism                                     | n/a        |

**Level 4/Year 1      2027/28      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 15 credits | 45 credits | 60 credits |
| Optional | n/a        | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title                             | Credits    |
|-----------------|--------|-----------------------------------|------------|
| Sem 1           | CH1200 | General Chemistry                 | 15 credits |
| Sem 1           | CH1202 | Introductory Inorganic Chemistry  | 15 credits |
| Sem 1           | CH1271 | Biological and Medical Statistics | 15 credits |

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | CH1275 | Introductory Practical Chemistry   | 15 credits |
| Sem 1           |        | College Computing  | n/a        |
| Sem 1           |        | Principle of Marxism and Theory of Socialism                               | n/a        |
| Sem 1           |        | Physical Education II  | n/a        |
| Sem 2           | CH1201 | Introductory Organic Chemistry   | 15 credits |
| Sem 2           | CH1213 | Biochemistry and Medicinal Chemistry                                       | 15 credits |
| Sem 2           | CH1272 | Physiology and Pharmacology for Pharmaceutical Chemists                    | 15 credits |
| Sem 2           | CH1274 | Comprehensive Experiment in Biology  | 15 credits |
| Sem 2           |        | Introduction to Maoism and Theory of Socialism                             | n/a        |
| Sem 2           |        | Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | n/a        |
| Sem 3           |        | Cognition Practical  | n/a        |

#### Notes

Delivery of Year Long modules is weighted towards Semester 2 to ensure approximate equal student workload between semesters.

#### Level 5/Year 2      2028/29      (Students are at Panjin Campus)

Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 60 credits | 60 credits |
| Optional | n/a       | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title                                | Credits    |
|-----------------|--------|--------------------------------------|------------|
| Sem 1           | CH2200 | Spectroscopy Theory and Practice     | 15 credits |
| Sem 1           | CH2201 | Organic Chemistry                    | 15 credits |
| Sem 1           | CH2273 | Pharmaceutical Chemistry Practical A | 15 credits |
| Sem 1           | CH2271 | Pharmaceutical Analysis              | 15 credits |
| Sem 1           |        | General Optional Course              | n/a        |
| Sem 2           | CH2703 | Introductory Physical Chemistry      | 15 credits |
| Sem 2           | CH2211 | Pharmaceutics                        | 15 credits |
| Sem 2           | CH2274 | Pharmaceutical Chemistry Practical B | 15 credits |
| Sem 2           | CH2272 | Computer-aided drug design practical | 15 credits |
| Sem 2           |        | Pharmacy Administration and Statute  | n/a        |
| Sem 3           |        | Production Practical                 | n/a        |

**Level 6/Year 3      2029/30      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 45 credits | 60 credits |
| Optional | n/a       | 15 credits | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title                      | Credits    |
|-----------------|--------|----------------------------|------------|
| Sem 1           | CH3201 | Advanced Organic Chemistry | 15 credits |

| Delivery period | Code   | Title   | Credits    |
|-----------------|--------|---|------------|
| Sem 1           | CH3211 | Hit to Lead Pharmaceutical Chemistry                        | 15 credits |
| Sem 1           | CH3213 | Major Therapeutic Areas                                     | 15 credits |
| Sem 1           |        | Innovation Course   | n/a        |
| Sem 2           | CH3214 | Modern Approaches and Biologics in Pharmaceutical Chemistry | 15 credits |
| Sem 2           | CH3853 | Pharmaceutical Chemistry Research Project 1                 | 15 credits |
| Sem 2           | CH3854 | Pharmaceutical Chemistry Research Project 2                 | 30 credits |

#### Notes

Delivery of Year Long modules is weighted to ensure approximate equal student workload between semesters.

CH3853 and CH3854 Project modules are associated with the single, 45 credit project, and run concurrently.

#### Option modules

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | CH3273 | Biopharmaceutics & Pharmacokinetics              | 15 credits |
| Sem 1           | CH3275 | Pharmacognosy & Natural Pharmaceutical Chemistry | 15 credits |

#### Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

BSc Pharmaceutical Chemistry (2+2)

**Level 3/Year 0      2026/27      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 60 credits | 60 credits |
| Optional | n/a       | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | EL0002 | University English 1: Speaking and Listening             | 15 credits |
| Sem 1           | EL0003 | University English 2: Reading and Writing                | 15 credits |
| Sem 1           | CH0271 | Advanced Maths for Pharmaceutical Chemistry              | 15 credits |
| Sem 1           | CH0276 | Introduction to Clinical Medicine & Pharmacy             | 15 credits |
| Sem 1           |        | Military Theory and Training                             | n/a        |
| Sem 1           |        | Moral Cultivation and Basic Law                          | n/a        |
| Sem 1           |        | Physical Education I                                     | n/a        |
| Sem 1           | EL0004 | University English 3: Project                            |            |
| Sem 2           | EL0005 | English for Specific Academic Purposes                   | 15 credits |
| Sem 2           | CH0272 | Foundation Pharmaceutical Chemistry                      | 15 credits |
| Sem 2           | CH0274 | Cellular and Molecular Biology                           | 15 credits |
| Sem 2           |        | Chinese Modern Contemporary History and Situation Policy | n/a        |
| Sem 2           |        | Military Theory and Training                             | n/a        |

| Delivery period | Code | Title                | Credits |
|-----------------|------|----------------------|---------|
| Sem 2           |      | Principle of Marxism | n/a     |

**Level 4/Year 1      2027/28      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 15 credits | 60 credits | 45 credits |
| Optional | n/a        | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title   | Credits    |
|-----------------|--------|---|------------|
| Sem 1           | CH1200 | General Chemistry                                       | 15 credits |
| Sem 1           | CH1202 | Introductory Inorganic Chemistry                        | 15 credits |
| Sem 1           | CH1271 | Biological and Medical Statistics                       | 15 credits |
| Sem 1           | CH1275 | Introductory Practical Chemistry                        | 15 credits |
| Sem 1           |        | College Computing                                       | n/a        |
| Sem 1           |        | Principle of Marxism and Theory of Socialism            | n/a        |
| Sem 1           |        | Physical Education II                                   | n/a        |
| Sem 2           | CH1201 | Introductory Organic Chemistry                          | 15 credits |
| Sem 2           | CH1213 | Biochemistry and Medicinal Chemistry                    | 15 credits |
| Sem 2           | CH1272 | Physiology and Pharmacology for Pharmaceutical Chemists | 15 credits |

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 2           | CH1274 | Comprehensive Experiment in Biology  | 15 credits |
| Sem 2           |        | Introduction to Maoism and Theory of Socialism                             | n/a        |
| Sem 2           |        | Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | n/a        |
| Sem 3           |        | Cognition Practical  | n/a        |

### Notes

Delivery of Year Long modules is weighted towards Semester 2 to ensure approximate equal student workload between semesters.

### Level 5/Year 2      2028/29      (Students are at Leicester)

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 75 credits | 30 credits | 15 credits |
| Optional | n/a        | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title                            | Credits    |
|-----------------|--------|----------------------------------|------------|
| Sem 1           | CH2200 | Spectroscopy Theory and Practice | 15 credits |
| Sem 1           | CH2211 | Pharmaceutics                    | 15 credits |
| Sem 2           | CH2206 | Analytical Chemistry in Practice | 15 credits |
| Year long       | CH2201 | Organic Chemistry                | 15 credits |
| Year long       | CH2202 | Inorganic Chemistry              | 15 credits |
| Year long       | CH2703 | Introductory Physical Chemistry  | 15 credits |

| Delivery period | Code   | Title                              | Credits    |
|-----------------|--------|------------------------------------|------------|
| Year long       | CH2204 | Practical Chemistry and Key Skills | 30 credits |

#### Notes

Delivery of Year Long modules is weighted towards Semester 2 to ensure approximate equal student workload between semesters.

#### Level 6/Year 3      2029/30      (Students are at Leicester)

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 60 credits | 15 credits | 30 credits |
| Optional | n/a        | n/a        | 15 credits |

120 credits in total

Core modules

| Delivery period | Code   | Title   | Credits    |
|-----------------|--------|---|------------|
| Sem 1           | CH3201 | Advanced Organic Chemistry                                  | 15 credits |
| Sem 2           | CH3211 | Hit to Lead Medicinal Chemistry                             | 15 credits |
| Sem 2           | CH3213 | Major Therapeutic Areas                                     | 15 credits |
| Year long       | CH3260 | Research Skills, Employability & General Paper              | 15 credits |
| Year long       | CH3266 | Chemistry Year Three Research Project                       | 30 credits |
| Year long       | CH3214 | Modern Approaches and Biologics in Pharmaceutical Chemistry | 15 credits |

#### Notes

Delivery of Year Long modules is weighted to ensure approximate equal student workload between semesters.

### Option modules

| Delivery period | Code   | Title                         | Credits    |
|-----------------|--------|-------------------------------|------------|
| Sem 2           | CH3206 | Advanced Analytical Chemistry | 15 credits |
| Sem 2           | CH3205 | Metals in Synthesis           | 15 credits |

### Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

### BSc Pharmaceutical Chemistry (2+1+1)

**Level 3/Year 0      2026/27      (Students are at Panjin Campus)**

### Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 60 credits | 60 credits |
| Optional | n/a       | n/a        | n/a        |

120 credits in total

### Core modules

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | EL0002 | University English 1: Speaking and Listening | 15 credits |
| Sem 1           | EL0003 | University English 2: Reading and Writing    | 15 credits |
| Sem 1           | CH0271 | Advanced Maths for Pharmaceutical Chemistry  | 15 credits |
| Sem 1           | CH0276 | Introduction to Clinical Medicine & Pharmacy | 15 credits |
| Sem 1           |        | Military Theory and Training                 | n/a        |
| Sem 1           |        | Moral Cultivation and Basic Law              | n/a        |

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           |        | Physical Education I                                     | n/a        |
| Sem 1           | EL0004 | University English 3: Project                            |            |
| Sem 2           | EL0005 | English for Specific Academic Purposes                   | 15 credits |
| Sem 2           | CH0272 | Foundation Pharmaceutical Chemistry                      | 15 credits |
| Sem 2           | CH0274 | Cellular and Molecular Biology                           | 15 credits |
| Sem 2           |        | Chinese Modern Contemporary History and Situation Policy | n/a        |
| Sem 2           |        | Military Theory and Training                             | n/a        |
| Sem 2           |        | Principle of Marxism                                     | n/a        |

**Level 4/Year 1      2027/28      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 15 credits | 60 credits | 45 credits |
| Optional | n/a        | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title                             | Credits    |
|-----------------|--------|-----------------------------------|------------|
| Sem 1           | CH1200 | General Chemistry                 | 15 credits |
| Sem 1           | CH1202 | Introductory Inorganic Chemistry  | 15 credits |
| Sem 1           | CH1271 | Biological and Medical Statistics | 15 credits |

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 2           | CH1275 | Introductory Practical Chemistry   | 15 credits |
| Sem 1           |        | College Computing  | n/a        |
| Sem 1           |        | Principle of Marxism and Theory of Socialism                               | n/a        |
| Sem 1           |        | Physical Education II  | n/a        |
| Sem 2           | CH1201 | Introductory Organic Chemistry   | 15 credits |
| Sem 2           | CH1213 | Biochemistry and Medicinal Chemistry                                       | 15 credits |
| Sem 2           | CH1272 | Physiology and Pharmacology for Pharmaceutical Chemists                    | 15 credits |
| Sem 2           | CH1274 | Comprehensive Experiment in Biology  | 15 credits |
| Sem 2           |        | Introduction to Maoism and Theory of Socialism                             | n/a        |
| Sem 2           |        | Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | n/a        |
| Sem 3           |        | Cognition Practical  | n/a        |

#### Notes

Delivery of Year Long modules is weighted towards Semester 2 to ensure approximate equal student workload between semesters.

#### Level 5/Year 2      2028/29      (Students are at Leicester)

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 75 credits | 30 credits | 15 credits |
| Optional | n/a        | n/a        | n/a        |

120 credits in total

### Core modules

| Delivery period | Code   | Title                              | Credits    |
|-----------------|--------|------------------------------------|------------|
| Sem 1           | CH2200 | Spectroscopy Theory and Practice   | 15 credits |
| Sem 1           | CH2211 | Pharmaceutics                      | 15 credits |
| Sem 2           | CH2206 | Analytical Chemistry in Practice   | 15 credits |
| Year long       | CH2201 | Organic Chemistry                  | 15 credits |
| Year long       | CH2202 | Inorganic Chemistry                | 15 credits |
| Year long       | CH2703 | Introductory Physical Chemistry    | 15 credits |
| Year long       | CH2204 | Practical Chemistry and Key Skills | 30 credits |

### Notes

Delivery of Year Long modules is weighted towards Semester 2 to ensure approximate equal student workload between semesters.

### Level 6/Year 3      2029/30      (Students are at Panjin Campus)

#### Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 45 credits | 45 credits |
| Optional | n/a       | 15 credits | 15 credits |

120 credits in total

### Core modules

| Delivery period | Code   | Title                        | Credits    |
|-----------------|--------|------------------------------|------------|
| Sem 1           | CH3201 | Advanced Organic Chemistry   | 15 credits |
| Sem 1           | CH3202 | Advanced Inorganic Chemistry | 15 credits |
| Sem 1           | CH3203 | Advanced Physical Chemistry  | 15 credits |

| Delivery period | Code   | Title                                       | Credits    |
|-----------------|--------|---|------------|
| Sem 1           |        | General Optional Course 3                   | n/a        |
| Sem 2           | CH3853 | Pharmaceutical Chemistry Research Project 1 | 15 credits |
| Sem 2           | CH3854 | Pharmaceutical Chemistry Research Project 2 | 30 credits |

#### Notes

Delivery of Year Long modules is weighted to ensure approximate equal student workload between semesters.

CH3853 and CH3854 Project modules are associated with the single, 45 credit project, and run concurrently.

#### Option modules

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | CH3273 | Biopharmaceutics & Pharmacokinetics              | 15 credits |
| Sem 1           | CH3275 | Pharmacognosy & Natural Pharmaceutical Chemistry | 15 credits |

#### Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

## BSc Pharmaceutical Chemistry (3+1)

**Level 3/Year 0      2026/27      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 60 credits | 60 credits |
| Optional | n/a       | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title  | Credits    |
|-----------------|--------|--|------------|
| Sem 1           | EL0002 | University English 1: Speaking and Listening             | 15 credits |
| Sem 1           | EL0003 | University English 2: Reading and Writing                | 15 credits |
| Sem 1           | CH0271 | Advanced Maths for Pharmaceutical Chemistry              | 15 credits |
| Sem 1           | CH0276 | Introduction to Clinical Medicine & Pharmacy             | 15 credits |
| Sem 1           |        | Military Theory and Training                             | n/a        |
| Sem 1           |        | Moral Cultivation and Basic Law                          | n/a        |
| Sem 1           |        | Physical Education I                                     | n/a        |
| Sem 1           | EL0004 | University English 3: Project                            |            |
| Sem 2           | EL0005 | English for Specific Academic Purposes                   | 15 credits |
| Sem 2           | CH0272 | Foundation Pharmaceutical Chemistry                      | 15 credits |
| Sem 2           | CH0274 | Cellular and Molecular Biology                           | 15 credits |
| Sem 2           |        | Chinese Modern Contemporary History and Situation Policy | n/a        |
| Sem 2           |        | Military Theory and Training                             | n/a        |

| Delivery period | Code | Title                | Credits |
|-----------------|------|----------------------|---------|
| Sem 2           |      | Principle of Marxism | n/a     |

**Level 4/Year 1      2027/28      (Students are at Panjin Campus)**

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 15 credits | 60 credits | 45 credits |
| Optional | n/a        | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title   | Credits    |
|-----------------|--------|---|------------|
| Sem 1           | CH1200 | General Chemistry                                       | 15 credits |
| Sem 1           | CH1202 | Introductory Inorganic Chemistry                        | 15 credits |
| Sem 1           | CH1271 | Biological and Medical Statistics                       | 15 credits |
| Sem 1           | CH1275 | Introductory Practical Chemistry                        | 15 credits |
| Sem 1           |        | College Computing                                       | n/a        |
| Sem 1           |        | Principle of Marxism and Theory of Socialism            | n/a        |
| Sem 1           |        | Physical Education II                                   | n/a        |
| Sem 2           | CH1201 | Introductory Organic Chemistry                          | 15 credits |
| Sem 2           | CH1213 | Biochemistry and Medicinal Chemistry                    | 15 credits |
| Sem 2           | CH1272 | Physiology and Pharmacology for Pharmaceutical Chemists | 15 credits |
| Sem 2           | CH1274 | Comprehensive Experiment in Biology                     | 15 credits |

| Delivery period | Code | Title  | Credits |
|-----------------|------|--|---------|
| Sem 2           |      | Introduction to Maoism and Theory of Socialism                             | n/a     |
| Sem 2           |      | Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | n/a     |
| Sem 3           |      | Cognition Practical  | n/a     |

#### Notes

Delivery of Year Long modules is weighted towards Semester 2 to ensure approximate equal student workload between semesters.

#### Level 5/Year 2      2028/29      (Students are at Panjin Campus)

Credit breakdown

| Status   | Year long | Semester 1 | Semester 2 |
|----------|-----------|------------|------------|
| Core     | n/a       | 60 credits | 60 credits |
| Optional | n/a       | n/a        | n/a        |

120 credits in total

Core modules

| Delivery period | Code   | Title                                | Credits    |
|-----------------|--------|--------------------------------------|------------|
| Sem 1           | CH2200 | Spectroscopy Theory and Practice     | 15 credits |
| Sem 1           | CH2201 | Organic Chemistry                    | 15 credits |
| Sem 1           | CH2273 | Pharmaceutical Chemistry Practical A | 15 credits |
| Sem 1           | CH2271 | Pharmaceutical Analysis              | 15 credits |
| Sem 1           |        | General Optional Course              | n/a        |
| Sem 2           | CH2703 | Introductory Physical Chemistry      | 15 credits |
| Sem 2           | CH2211 | Pharmaceutics                        | 15 credits |

| Delivery period | Code   | Title                                | Credits    |
|-----------------|--------|--------------------------------------|------------|
| Sem 2           | CH2274 | Pharmaceutical Chemistry Practical B | 15 credits |
| Sem 2           | CH2272 | Computer-aided drug design practical | 15 credits |
| Sem 2           |        | Pharmacy Administration and Statute  | n/a        |
| Sem 3           |        | Production Practical                 | n/a        |

**Level 6/Year 3      2029/30      (Students are at Leicester)**

Credit breakdown

| Status   | Year long  | Semester 1 | Semester 2 |
|----------|------------|------------|------------|
| Core     | 60 credits | 15 credits | 30 credits |
| Optional | n/a        | n/a        | 15 credits |

120 credits in total

Core modules

| Delivery period | Code   | Title   | Credits    |
|-----------------|--------|---|------------|
| Sem 1           | CH3201 | Advanced Organic Chemistry                                  | 15 credits |
| Sem 2           | CH3211 | Hit to Lead Medicinal Chemistry                             | 15 credits |
| Sem 2           | CH3213 | Major Therapeutic Areas                                     | 15 credits |
| Year long       | CH3260 | Research Skills, Employability & General Paper              | 15 credits |
| Year long       | CH3266 | Chemistry Year Three Research Project                       | 30 credits |
| Year long       | CH3214 | Modern Approaches and Biologics in Pharmaceutical Chemistry | 15 credits |

**Notes**

Delivery of Year Long modules is weighted to ensure approximate equal student workload between semesters.

## Option modules

| Delivery period | Code   | Title                         | Credits    |
|-----------------|--------|-------------------------------|------------|
| Sem 2           | CH3206 | Advanced Analytical Chemistry | 15 credits |
| Sem 2           | CH3205 | Metals in Synthesis           | 15 credits |

### Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

## Appendix 2: Module specifications

See undergraduate [module specification database](#) (Note - modules are organized by year of delivery).