Programme Specification (Undergraduate) FOR ENTRY YEAR: 2025/26

Date created: 01/08/2025 **Last amended:** Choose an item. **Version no.** 1

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 pro ject
- 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:		

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
critically appraise physical, chemical and biochemical information, and discuss its limitations	Progressively through the programme, particularly in the 4th year. 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. 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. 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. 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

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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.

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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.

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
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. 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. 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. 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. 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. 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. 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. 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. 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 CH1205 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.

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.

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.

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.

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 reaccredited 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 [log-in required]

UNIVERSITY OF LEICESTER

Programme Specification (Undergraduate) FOR ENTRY YEAR: 2022/23

Date created: Click or tap here to enter text. **Last amended:** 03/03/2022 **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 2025/26 (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 2026/27 (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
Sem 1		College Computing	n/a

Delivery period	Code	Title	Credits
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	CH1211	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
Year long	CH1205	Introductory Practical Chemistry	15 credits

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

Level 5/Year 2 2027/28 (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

Delivery period	Code	Title	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 2028/29 (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
Sem 1	CH3211	Hit to Lead Pharmaceutical Chemistry	15 credits
Sem 1	CH3213	Major Therapeutic Areas	15 credits

Delivery period	Code	Title	Credits
Sem 1		Innovation Course	n/a
Sem 2	CH3214	Modern Approaches and Biologics in Pharmaceutical Chemistry	15 credits
Sem 2	CH3853	Pharmaceutical Chemistry Graduation Project 1	15 credits
Sem 2	CH3854	Pharmaceutical Chemistry Graduation 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 2025/26 (Students are at Panjin Campus)

Credit breakdown

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

Status	Year long	Semester 1	Semester 2
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
Sem 2		Principle of Marxism	n/a

Level 4/Year 1 2026/27 (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		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	CH1211	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 2027/28 (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 2028/29 (Students are at Leicester)

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	45 credits	30 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 1	CH3263	Chemistry BSc Projects Part 1	15 credits
Sem 2	CH3211	Hit to Lead Medicinal Chemistry	15 credits
Sem 2	CH3213	Major Therapeutic Areas	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3264	Chemistry BSc Projects Part 2	15 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	CH3208	Advanced Materials 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+1+1)

Level 3/Year 0 2025/26 (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

Delivery period	Code	Title	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 2026/27 (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		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	CH1211	Biochemistry and Medicinal Chemistry	15 credits

Delivery period	Code	Title	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 2027/28 (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 2028/29 (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
Sem 1		General Optional Course 3	n/a
Sem 2	CH3853	Pharmaceutical Chemistry Graduation Project 1	15 credits
Sem 2	CH3854	Pharmaceutical Chemistry Graduation 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 2025/26 (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

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

Level 4/Year 1 2026/27 (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

Delivery period	Code	Title	Credits
Sem 1	CH1271	Biological and Medical Statistics	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	CH1211	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 2027/28 (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 2028/29 (Students are at Leicester)

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	45 credits	30 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

Delivery period	Code	Title	Credits
Sem 1	CH3263	Chemistry BSc Projects Part 1	15 credits
Sem 2	CH3211	Hit to Lead Medicinal Chemistry	15 credits
Sem 2	CH3213	Major Therapeutic Areas	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Sem 2	CH3264	Chemistry BSc Project Part 2	15 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	CH3208	Advanced Materials 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.

Appendix 2: Module specifications

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