

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

BSc Chemistry

BSc Chemistry with a Year in Industry^

BSc Pharmaceutical Chemistry

BSc Pharmaceutical Chemistry with a Year in Industry^

BSc Chemistry with Enterprise

BSc Chemistry with Enterprise with a Year in Industry^

BSc Chemistry with a Year Abroad\*

BSc Pharmaceutical Chemistry with a Year Abroad\*

BSc Chemistry with Enterprise with a Year Abroad\*

BSc Chemical Science\*

BSc Chemical and Pharmaceutical Sciences\*

BSc Chemical Sciences with Enterprise\*

Notes

All programmes include a variant with integrated Foundation Year; *Pharmaceutical Chemistry (with Foundation Year)* and *Chemistry with Enterprise (with Foundation Year)* are entered by approved transfer only, before the start of Year 1.

\* An award marked with an asterisk is only available as an exit award and is not available for students to register onto.

^ Students may only enter this programme by approved transfer before the end of Year 2.

a) [HECOS Code](#)

BSc Chemistry/BSc Chemistry with Year in Industry

HECOS Code	%
100417	100%

BSc Pharmaceutical Chemistry/BSc Pharmaceutical Chemistry with Year in Industry

HECOS Code	%
100423	100

BSc Chemistry with Enterprise/BSc Chemistry with Enterprise with Year in Industry

HECOS Code	%
100417	75%
101221	25%

**b) UCAS Code (where required)**

BSc Chemistry F100

BSc Pharmaceutical Chemistry F154

BSc Chemistry with Enterprise F110, F111

**2. Awarding body or institution:**

University of Leicester

**3. a) Mode of study**

Full-time

**b) Type of study**

Campus-based

**4. Registration periods:**

The normal and maximum registration periods for each degree are as follows:

Degree	BSc	BSc	BSc with Year in Industry	BSc with Year in Industry	BSc with Foundation Year	BSc with Foundation Year	BSc with Year in Industry and Foundation Year	BSc with Year in Industry and Foundation Year
	Normal	Max.	Normal	Max.	Normal	Max.	Normal	Max.
Chemistry	3 years	5 years	4 years	6 years	4 years	6 years	5 years	7 years
Pharmaceutical Chemistry	3 years	5 years	4 years	6 years	4 years	6 years	5 years	7 years
Chemistry with Enterprise	3 years	5 years	4 years	6 years	4 years	6 years	5 years	7 years

**5. Typical entry requirements**

A-level ABB or equivalent and GCSE Maths grade 6. Applications from mature students with a Level 3 qualification in Chemistry and experience of employment in a chemistry related field are welcomed and will be considered on a case-by-case basis.

**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 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 chemistry.

- To train students in the practical skills necessary for the safe manipulation of chemicals
- To generate interest in, and understanding of, the wider role of chemistry in society e.g. health, industry, sustainability
- 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 investigation
- To introduce students to a range topic of current chemical 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.

For the Year in Industry variants only, these additional programme aims apply:

- Prepare students for career and training opportunities which relates to their degree – in both the private and public sectors, and voluntary organisations.
- Construct effective applications for placement opportunities
- Provide students the opportunity to recognise suitable plans for transitioning into the workplace

Additional aims and objectives for related degrees:

### Pharmaceutical Chemistry

- To provide a broad understanding of the chemistry that underpins central areas of biochemistry
- To provide a broad understanding of the processes involved in development of new drugs including drug design, discovery, mode of action and production

### Chemistry with Enterprise

- To provide an introduction to business and commerce in relation to chemical sciences
- To develop entrepreneurial skills through a series of chemistry-related activities

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

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

- Student Destinations Data
- [Royal Society of Chemistry accreditation guidance](#)

## 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?
On successful completion of the programme students will be able to:		
recall and apply the basic concepts of chemistry theory across all 3 main areas of chemistry* (inorganic, organic & physical) and related mathematics;	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
solve structured and unseen model problems;	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
conduct experiments and apply practical techniques.	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
Typical students should have detailed knowledge of selected topics in at least 2* of the broad areas of chemistry (organic, inorganic, physical and analytical).	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
Specific to Pharmaceutical Chemistry:		
knowledge and understanding of biochemistry; knowledge of processes of drug discovery.	Lectures; specified & directed reading; laboratory practical classes.	Written examinations; assessed coursework including – written work, essays, practical reports, oral presentations.

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
*For Pharmaceutical Chemistry there is less coverage of physical chemistry, in Year 3, the detailed knowledge is in organic chemistry and pharmaceutical chemistry.	Lectures; specified & directed reading; laboratory practical classes.	Written examinations; assessed coursework including – written work, essays, practical reports, oral presentations.
Specific to Chemistry with Enterprise:		
knowledge and understanding of the terms used in business and accountancy.	Lectures; specified reading, workshops, tutorials and seminars	Short tests; assessed coursework including written work, essays, oral presentations.

ii) Understanding and application of key concepts and techniques

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
apply chemical concepts in new situations (e.g. ability to predict physical and chemical properties by comparison with analogues);	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
apply logic and chemical knowledge to make deductions based on (limited) evidence;	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
solve familiar and unfamiliar chemistry related problems;	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
design, construct and conduct chemical experiments using standard equipment and following safe procedures;	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.

<b>Intended Learning Outcomes</b>	<b>Teaching and Learning Methods</b>	<b>How Demonstrated?</b>
use computer programs to retrieve & analyse data;	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
describe and discuss the accumulation of scientific evidence.	Lectures; tutorials; specified & directed reading; problem classes; problem-based learning; open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; assessed coursework including – tutorial problems, computer tests, oral presentations; assessed practical work and reports.
Specific to Chemistry with Enterprise:		
ability to apply the key concepts of business to a product/service and develop a business case.	Lectures; specified reading, workshops and seminars	Problem based learning and written business plan.

iii) Critical analysis of key issues

<b>Intended Learning Outcomes</b>	<b>Teaching and Learning Methods</b>	<b>How Demonstrated?</b>
On successful completion of the programme students will be able to:		
critically appraise physical & chemical information and discuss its limitations;	Lectures; tutorials; problem-based learning; problem classes, open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; practical & projects reports; oral presentations; assessed practical work; assessed computer exercises.
draw quantitative conclusions from sample data;	Lectures; tutorials; problem-based learning; problem classes, open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; practical & projects reports; oral presentations; assessed practical work; assessed computer exercises.
summarise key findings of scientific papers;	Lectures; tutorials; problem-based learning; problem classes, open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; practical & projects reports; oral presentations; assessed practical work; assessed computer exercises.

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
critically assess and compare scientific theories.	Lectures; tutorials; problem-based learning; problem classes, open ended group work; laboratory practical classes; research projects; computer aided learning.	Written examinations; practical & projects reports; oral presentations; assessed practical work; assessed computer exercises.
Specific to Chemistry with Enterprise:		
ability to carry out a SWOT analysis for a product / business	Lectures; specified reading, workshops and seminars	Data analysis exercises

iv) Clear and concise presentation of material

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
present scientific ideas, data and results in a variety of (appropriate) forms e.g. reports, seminars, posters, papers etc;	Lectures, tutorials; problem-based learning; group based problem classes; open ended group project work; laboratory practical classes; research projects.	Laboratory notebooks; practical and project reports; oral presentations; assessed practical work including lab samples & associated data; assessed computer exercises; tutorial work
use appropriate software for presenting and modelling chemical structures and systems;	Lectures, tutorials; problem-based learning; group based problem classes; open ended group project work; laboratory practical classes; research projects.	Laboratory notebooks; practical and project reports; oral presentations; assessed practical work including lab samples & associated data; assessed computer exercises; tutorial work
participate in scientific discussion and debate.	Lectures, tutorials; problem-based learning; group based problem classes; open ended group project work; laboratory practical classes; research projects.	Laboratory notebooks; practical and project reports; oral presentations; assessed practical work including lab samples & associated data; assessed computer exercises; tutorial work
Specific to Chemistry with Enterprise:		
ability to create and present a business plan	Lectures; specified reading, workshops and seminars	Problem based learning and written business plan

v) Critical appraisal of evidence with appropriate insight

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		

<b>Intended Learning Outcomes</b>	<b>Teaching and Learning Methods</b>	<b>How Demonstrated?</b>
discuss and implement experimental methodology;	Tutorials; problem-based learning; lectures; open ended group project work; laboratory practical classes; research projects.	Written examinations; reports; oral presentations; assessed practical work; assessed computer exercises; assessed problems; project assessments.
collect and critically analyse data;	Tutorials; problem-based learning; lectures; open ended group project work; laboratory practical classes; research projects.	Written examinations; reports; oral presentations; assessed practical work; assessed computer exercises; assessed problems; project assessments.
draw valid inferences from data in a variety of settings;	Tutorials; problem-based learning; lectures; open ended group project work; laboratory practical classes; research projects.	Written examinations; reports; oral presentations; assessed practical work; assessed computer exercises; assessed problems; project assessments.
discuss and criticize scientific literature.	Tutorials; problem-based learning; lectures; open ended group project work; laboratory practical classes; research projects.	Written examinations; reports; oral presentations; assessed practical work; assessed computer exercises; assessed problems; project assessments.
Specific to Chemistry with Enterprise:		
ability to create and present a business plan	Lectures; specified reading, workshops and seminars	Data collection and analysis exercises

vi) Other discipline specific competencies

<b>Intended Learning Outcomes</b>	<b>Teaching and Learning Methods</b>	<b>How Demonstrated?</b>
On successful completion of the programme students will be able to:		
discuss, design, and implement scientific experiments;	Tutorials; problem-based learning; research projects.	Written reports; oral presentations; assessed practical work; written examinations.
competently use a range of standard laboratory equipment;	Tutorials; problem-based learning; research projects.	Written reports; oral presentations; assessed practical work; written examinations.
describe and adhere to laboratory safety procedures;	Tutorials; problem-based learning; research projects.	Written reports; oral presentations; assessed practical work; written examinations.
describe and discuss some areas of current research in chemistry	Tutorials; problem-based learning; research projects.	Written reports; oral presentations; assessed practical work; written examinations.



**b) Transferable skills**

## i) Oral communication

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
describe and discuss scientific concepts to a variety of audiences;	Tutorials; problem-based learning; group problem solving classes; research projects.	Oral presentations and questioning (including projects)
give reasoned arguments in response to chemical questions.	Tutorials; problem-based learning; group problem solving classes; research projects.	Oral presentations and questioning (including projects)

## ii) Written communication

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
write concise and clear scientific reports (including abstracts), laboratory notebooks & reports and project summaries;	Tutorials; problem-based learning; laboratory practical classes; CV writing workshop; research projects.	Written lab-notebooks, project and laboratory reports; assessed CVs; assessed coursework including essays, written examinations.
write CVs;	Tutorials; problem-based learning; laboratory practical classes; CV writing workshop; research projects.	Written lab-notebooks, project and laboratory reports; assessed CVs; assessed coursework including essays, written examinations.
clearly discuss some areas of current research in chemistry in written form.	Tutorials; problem-based learning; laboratory practical classes; CV writing workshop; research projects.	Written lab-notebooks, project and laboratory reports; assessed CVs; assessed coursework including essays, written examinations.
Specific to Chemistry with Enterprise:		
ability to write a technical report and business plan	Problem based learning and seminars	Report and business plan writing

## iii) Information technology

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
use spreadsheets, word processing and presentation facilities;	Problem classes; research projects; literature based coursework exercises; laboratory practical classes	Assessed IT tasks; laboratory/project assessments; practical and project reports; assessed problems.
use basic IT skills to access chemical information from online databases;	Problem classes; research projects; literature based coursework exercises; laboratory practical classes	Assessed IT tasks; laboratory/project assessments; practical and project reports; assessed problems.
use mathematical packages for data analysis;	Problem classes; research projects; literature based coursework exercises; laboratory practical classes	Assessed IT tasks; laboratory/project assessments; practical and project reports; assessed problems.
use chemistry specific software such as drawing or molecular modelling packages.	Problem classes; research projects; literature based coursework exercises; laboratory practical classes	Assessed IT tasks; laboratory/project assessments; practical and project reports; assessed problems.

iv) Numeracy

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
use analytical and graphical methods;	Lectures; group problem solving classes; problem-based learning; research project; laboratory practical classes.	Written examinations; practical and project reports; oral presentations; assessed practical work; assessed problems
analyse data;	Lectures; group problem solving classes; problem-based learning; research project; laboratory practical classes.	Written examinations; practical and project reports; oral presentations; assessed practical work; assessed problems
solve numerical problems involving e.g. calculus, linear algebra.	Lectures; group problem solving classes; problem-based learning; research project; laboratory practical classes.	Written examinations; practical and project reports; oral presentations; assessed practical work; assessed problems
Specific to Chemistry with Enterprise:		
ability to develop a business plan and understand a set of accounts	Lectures; specified reading, workshops and seminars	Written plan & oral examination

v) Team working

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
discuss concepts and formulate plans working with peers;	Group problem solving classes, coursework & projects; problem-based learning; research projects.	Group assessment (outcomes and oral questioning); project assessment.
recognise individual strengths within a team;	Group problem solving classes, coursework & projects; problem-based learning; research projects.	Group assessment (outcomes and oral questioning); project assessment.
organise time and tasks coherently between group members;	Group problem solving classes, coursework & projects; problem-based learning; research projects.	Group assessment (outcomes and oral questioning); project assessment.
produce joint reports/presentations.	Group problem solving classes, coursework & projects; problem-based learning; research projects.	Group assessment (outcomes and oral questioning); project assessment.

vi) Problem solving

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
analyse problems;	Lectures; tutorials; problem-based learning; laboratory classes; open ended group work; research projects.	Assessed examinations; assessed problems; group work assessment; project assessments.
plan and implement projects;	Lectures; tutorials; problem-based learning; laboratory classes; open ended group work; research projects.	Assessed examinations; assessed problems; group work assessment; project assessments.
apply chemistry knowledge and problem-solving ability to novel applications;	Lectures; tutorials; problem-based learning; laboratory classes; open ended group work; research projects.	Assessed examinations; assessed problems; group work assessment; project assessments.
solve unfamiliar numerical problems.	Lectures; tutorials; problem-based learning; laboratory classes; open ended group work; research projects.	Assessed examinations; assessed problems; group work assessment; project assessments.
Specific to Chemistry with Enterprise:		

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
ability to carry out a SWOT analysis in a business environment	Lectures; specified reading, workshops and seminars	Written plan & oral examination

vii) Information handling

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
gather, retrieve, and manipulate chemical information and data from a variety of sources, analyse & use it to support a chemical argument;	Lectures, tutorials; problem-based learning; laboratory and project supervision; group problem solving classes; research projects.	Assessed examinations; assessed problems; project and laboratory reports; oral presentations.
describe and discuss the scientific method;	Lectures, tutorials; problem-based learning; laboratory and project supervision; group problem solving classes; research projects.	Assessed examinations; assessed problems; project and laboratory reports; oral presentations.
present data in various forms (e.g. tabular and graphical);	Lectures, tutorials; problem-based learning; laboratory and project supervision; group problem solving classes; research projects.	Assessed examinations; assessed problems; project and laboratory reports; oral presentations.
access, search and appraise articles in scientific journals/literature.	Lectures, tutorials; problem-based learning; laboratory and project supervision; group problem solving classes; research projects.	Assessed examinations; assessed problems; project and laboratory reports; oral presentations.
Specific to Chemistry with Enterprise:		
ability to carry out a market survey and subsequent data analysis	Lectures; specified reading, workshops and seminars	Data collection and analysis exercises

viii) Skills for lifelong learning

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
On successful completion of the programme students will be able to:		
plan and undertake projects involving elements of independent research;	Laboratory classes & research projects; careers / skills training sessions; lectures from visiting speakers	Open note assessments; meeting deadlines; Project assessments; written examinations; assessed CVs

<b>Intended Learning Outcomes</b>	<b>Teaching and Learning Methods</b>	<b>How Demonstrated?</b>
access, search and appraise scholarly articles;	Laboratory classes & research projects; careers / skills training sessions; lectures from visiting speakers	Open note assessments; meeting deadlines; Project assessments; written examinations; assessed CVs
collect and analyse data;	Laboratory classes & research projects; careers / skills training sessions; lectures from visiting speakers	Open note assessments; meeting deadlines; Project assessments; written examinations; assessed CVs
search for and pursue employment and/or further study opportunities;	Laboratory classes & research projects; careers / skills training sessions; lectures from visiting speakers	Open note assessments; meeting deadlines; Project assessments; written examinations; assessed CVs
work effectively in teams;	Laboratory classes & research projects; careers / skills training sessions; lectures from visiting speakers	Open note assessments; meeting deadlines; Project assessments; written examinations; assessed CVs
work to deadlines managing their time effectively.	Laboratory classes & research projects; careers / skills training sessions; lectures from visiting speakers	Open note assessments; meeting deadlines; Project assessments; written examinations; assessed CVs
Students taking an industrial placement year will also appreciate the cultural environment of different businesses.	Experience with industry.	Reflective coursework exercises.

ix) Year in Industry

<b>Intended Learning Outcomes</b>	<b>Teaching and Learning Methods</b>	<b>How Demonstrated?</b>
Select appropriate resources for researching/securing placement opportunities.	Students are provided with dedicated and timetabled sessions to prepare to search and secure a year in industry.  Problem solving classes, Masterclasses, Career development programmes, Independent research.	Formative module feedback through session tasks and exercises
Explain the process for applying for and securing a relevant placement.	Students are provided with dedicated and timetabled sessions to prepare to search and secure a year in industry.  Problem solving classes, Masterclasses, Career development programmes, Independent research.	Formative module feedback through session tasks and exercises

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
Construct effective applications for placement opportunities.	<p>Students are provided with dedicated and timetabled sessions to prepare to search and secure a year in industry.</p> <p>Problem solving classes, Masterclasses, Career development programmes, Independent research.</p>	Formative module feedback through session tasks and exercises
Recognise suitable plans for transitioning into a placement.	<p>Students are provided with dedicated and timetabled sessions to prepare to search and secure a year in industry.</p> <p>Problem solving classes, Masterclasses, Career development programmes, Independent research.</p>	Formative module feedback through session tasks and exercises
Apply the theoretical and practical aspects of the material studied at the University and demonstrate the personal and professional skills necessary for your role within the organisation.	<p>Students undertake a minimum of 9 months experience in the workplace.</p> <p>Project supervision, independent research</p>	<p>Completion of Monthly Reflective Journals to record skills development, major achievements, key areas of work, learning points and challenges overcome.</p> <p>Assessed by a Placement Portfolio, comprising of a Reflective Summary, Professional Development Plan, and Updated CV (excluded from word count) to formally assess on a pass or fail basis.</p> <p>Formative feedback during a Placement Visit (in person or via Skype) from Placement Provider and Placement Tutor regarding reflection on skills development, areas of strength and weakness and contribution to the workplace.</p>

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
<p>Compose a Professional Development Plan considering your strengths, development areas and motivations for your next step.</p>	<p>Students undertake a minimum of 9 months experience in the workplace.</p> <p>Project supervision, independent research</p>	<p>Completion of Monthly Reflective Journals to record skills development, major achievements, key areas of work, learning points and challenges overcome.</p> <p>Assessed by a Placement Portfolio, comprising of a Reflective Summary, Professional Development Plan, and Updated CV (excluded from word count) to formally assess on a pass or fail basis.</p> <p>Formative feedback during a Placement Visit (in person or via Skype) from Placement Provider and Placement Tutor regarding reflection on skills development, areas of strength and weakness and contribution to the workplace.</p>
<p>Modify your CV to include the skills and experience you have gained through your significant experience gained in the past 12 months.</p>	<p>Students undertake a minimum of 9 months experience in the workplace.</p> <p>Project supervision, independent research</p>	<p>Completion of Monthly Reflective Journals to record skills development, major achievements, key areas of work, learning points and challenges overcome.</p> <p>Assessed by a Placement Portfolio, comprising of a Reflective Summary, Professional Development Plan, and Updated CV (excluded from word count) to formally assess on a pass or fail basis.</p> <p>Formative feedback during a Placement Visit (in person or via Skype) from Placement Provider and Placement Tutor regarding reflection on skills development, areas of strength and weakness and contribution to the workplace.</p>

## 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:

- **Practical & project requirements:** Modules CH1205, CH2204, CH3261 & CH3262 must be passed **at the first attempt**, except at the discretion of the Board of Examiners who may ask students to resubmit one or more assessed coursework elements, where it is possible for students to achieve a pass mark for the module by improving their mark in individual coursework elements. There are no resit opportunities for non-mitigated missed practical work. Practical modules CH1205 & CH2204 also have a requirement of at least 90% attendance (and completion) of scheduled laboratory sessions; if this is not achieved then the module will be automatically failed. A limited number of additional “catch-up” sessions may be provided for students who have accepted mitigation for non-attendance.

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

#### a) Course transfers

##### Transfer to MChem degrees

- Students may be permitted to transfer onto a MChem degree during Year Two if their final credit weighted average for Year One is greater than 50%.
  - An internal deadline will be set by the Department during Year Two for such transfers; this will be clearly communicated to all Year Two students.

##### Transfer between different degrees

- Transfer from BSc Pharmaceutical Chemistry to BSc or MChem Chemistry is allowed at the end of the Year One (and in exceptional cases at the end of the Year Two).
- Transfer from BSc Chemistry to BSc Pharmaceutical Chemistry is only allowed up until the start of Semester 2 of Year One. Note: any transfer from BSc to MChem is subject to the additional requirements set out above.
- Transfer to or from the Chemistry with Enterprise programme from the other BSc degrees is not allowed after the first three weeks of Year One.

#### b) Year in Industry

The progression criteria for a ‘year in industry’ programme is to meet the requirements needed to progress to the next level of study as outlined in the University’s Senate 5 Regulations.

Where a degree programme has a requirement from a Professional or Statutory Body (PSRB) for academic attainment for students undertake a year in industry are exempt from the proposed new progression criteria and will continue to uphold existing progression criteria. A Placement Student will revert back to the degree without Year in Industry if:

- They fail to secure a year in industry role.
- They fail to pass the assessment related to the year in industry.
- The year in industry ends early due to the behaviour of the Placement Student not being in accordance with the University’s Regulations for Students, Student Responsibilities. The Placement Student will need to suspend for the remainder of the academic year. To prevent such an incident from happening, processes are in place to identify any possible issues or concerns early in the year in industry role. This includes a start check, regular communications, visits to the workplace (physical and/or virtual) and evaluation. Communication and contact between the Placement Student, Placement Provider and University provides support should issues arise.
- They discontinue their Year in Industry. A student can return to their campus-based studies no later than the end of teaching week 2 at the start of the academic year should they decide to discontinue their Year in Industry they should complete a Course Transfer From. If a



Placement Student decides to discontinue their Year in Industry after this point they will need to suspend their studies for the remainder of the academic year.

Nine months is the minimum time required for a year in industry to be formally recognised. If the year in industry is terminated earlier than 9 months as a result of event outside of the Placement Students control (for example redundancy, or company liquidation), the following process will be adopted:

- If the Placement Student has completed 1 – 6 months, they will be supported to search for another placement to take them up to the 9 months required for the year in industry to be formally recognised. If the Placement Student does not find a placement to meet this criteria they will be required to suspend and transferred onto the degree without Year in Industry.
- If the Placement Student has completed 7-8 months, they will be supported to search for another placement to take them up to the 9 months required for the year in industry to be formally recognised. If the Placement Student cannot source an additional placement to take them to 9 months, assessments related to the year in industry will be set for the student to make it possible for the individual learning objectives for the year in industry to be met. This will allow the Year in Industry to be recognised in the degree certificate.
- A Placement Student will not be permitted to undertake a placement which runs across two academic years.

#### 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.

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

##### **Awarding requirements for Royal Society of Chemistry accredited degrees**

- To meet Royal Society of Chemistry accreditation requirements, we require all students to pass at least one Level One or Level Two module in all three areas of the subject (organic, inorganic, and physical chemistry – see table below). Students will need to do this by the end of their studies in order to graduate with a degree in Chemistry/Pharmaceutical Chemistry/Chemistry with Enterprise.

<b>Organic Chemistry</b>	<b>Inorganic Chemistry</b>	<b>Physical Chemistry</b>
By the end of their studies, students must have passed at least one of the following modules: CH1201 and CH2201.	By the end of their studies, students must have passed at least one of the following modules: CH1202 and CH2202.	By the end of their studies, students must have passed at least one of the following modules: CH1203 and CH2203.

- In addition, students will also need to gain an overall (CWA across both modules) pass mark of 40% for the two final year project modules CH3261 & CH3262.
- Students who meet all other progression and awarding regulations but fail to meet all of these accreditation requirements may be awarded a non-accredited degree in Chemical Science/Pharmaceutical and Chemical Sciences/Chemical Sciences with Enterprise.

#### 12. Special features

Small group tutorials, group problem solving, student-centred learning, research-based projects, links with industry, problem and context based learning. Specific business-related modules for the Chemistry with Enterprise programme.

## Placements

It is the student's responsibility to secure a year in industry role. Students should attend Placement Preparation modules, additional support workshops and 1-2-1 appointments with the Career Development Service. Employer led activities provide a platform for students to engage with organisations who are recruiting students for year in industry roles.

When a Placement Student starts a year in industry, they will be required to complete health and safety documents and confirm they have completed a formal induction process no later than the 2nd week of placement. A Placement Student on the Year in Industry variant will also gain from being able to:

- Apply the theoretical and practical aspects of the material studied at the University and demonstrate the personal and professional skills necessary for your role within the organisation.
- Compose a Professional Development Plan considering your strengths, development areas and motivations for your next step.
- Modify your CV to include the skills and experience you have gained through your significant experience gained in the past 12 months.

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

All degrees were accredited by the Royal Society of Chemistry in Jan 2016 (except Chemistry with Enterprise)

Academic Review

External examiners reports

Destinations of Leavers from Higher Education (DLHE) survey.

### **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: 2021/22

Date created: 03/02/2021

Last amended: 26/03/2021

Version no. 3

### 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 Chemistry

**Level 4/Year 1      2021/22**

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	CH1200	General Chemistry	15 credits
Sem 1	CH1206	Scientific Method & Principles of Analytical Chemistry	15 credits
Sem 2	CH1207	Chemistry of the Real World	15 credits
Year long	CH1201	Introductory Organic Chemistry	15 credits
Year long	CH1202	Introductory Inorganic Chemistry	15 credits
Year long	CH1203	Introductory Physical Chemistry	15 credits
Year long	CH1204	Chemistry Key Skills and Maths	15 credits

Delivery period	Code	Title	Credits
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      2022/23

#### 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	CH2207	Polymer and Materials Chemistry	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	CH2203	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      2023/24**

## Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	30 credits	45 credits	n/a
Optional	n/a	n/a	45 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	CH3261	BSc Project Practical	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3262	BSc Project Report	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
Semester 2	CH3203*	Advanced Physical Chemistry*	15 credits
Semester 2	CH3204	Biological Chemistry	15 credits
Semester 2	CH3205	Metals in Synthesis	15 credits
Semester 2	CH3206*	Advanced Analytical Chemistry*	15 credits
Semester 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.

\*Students must choose at least one of CH3203 and CH3206.

## BSc Chemistry with Year in Industry

**Level 4/Year 1      2021/22**

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	CH1200	General Chemistry	15 credits
Sem 1	CH1206	Scientific Method & Principles of Analytical Chemistry	15 credits
Sem 2	CH1207	Chemistry of the Real World	15 credits
Year long	CH1201	Introductory Organic Chemistry	15 credits
Year long	CH1202	Introductory Inorganic Chemistry	15 credits
Year long	CH1203	Introductory Physical Chemistry	15 credits
Year long	CH1204	Chemistry Key Skills and Maths	15 credits
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      2022/23**

## 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	CH2207	Polymer and Materials Chemistry	15 credits
Sem 1	ADCH221	Placement Preparation 1	n/a
Sem 2	CH2206	Analytical Chemistry in Practice	15 credits
Sem 2	ADCH222	Placement Preparation 2	n/a
Year long	CH2201	Organic Chemistry	15 credits
Year long	CH2202	Inorganic Chemistry	15 credits
Year long	CH2203	Physical Chemistry	15 credits
Year long	CH2204	Practical Chemistry and Key Skills	30 credits
Year long	ADCH001	Industrial Placement Workshops	n/a

**Notes**

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

**Year in Industry 2023/24**

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	n/a	n/a	n/a
Optional	n/a	n/a	n/a

0 credits in total

Core modules

Delivery period	Code	Title	Credits
Year long	ADCH223	On Placement	n/a

**Notes**

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

**Level 6/Year 3 2024/25**

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	30 credits	45 credits	n/a
Optional	n/a	n/a	45 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	CH3261	BSc Project Practical	15 credits



Delivery period	Code	Title	Credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3262	BSc Project Report	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
Semester 2	CH3203*	Advanced Physical Chemistry*	15 credits
Semester 2	CH3204	Biological Chemistry	15 credits
Semester 2	CH3205	Metals in Synthesis	15 credits
Semester 2	CH3206*	Advanced Analytical Chemistry*	15 credits
Semester 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.

\*Students must choose at least one of CH3203 and CH3206.

#### BSc Pharmaceutical Chemistry

##### Level 4/Year 1      2021/22

#### 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	CH1200	General Chemistry	15 credits
Sem 1	CH1206	Scientific Method & Principles of Analytical Chemistry	15 credits
Sem 2	CH1209	Introductory Pharmaceutical Chemistry	15 credits
Year long	CH1201	Introductory Organic Chemistry	15 credits
Year long	CH1202	Introductory Inorganic Chemistry	15 credits
Year long	CH1203	Introductory Physical Chemistry	15 credits
Year long	CH1204	Chemistry Key Skills and Maths	15 credits
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      2022/23

### 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	BS2013	Physiology and Pharmacology	15 credits

Delivery period	Code	Title	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	CH2203	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      2023/24

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	30 credits	45 credits	15 credits
Optional	n/a	n/a	30 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	CH3261	BSc Project Practical	15 credits
Sem 2	CH3211	Pharmaceutical Chemistry	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3262	BSc Project Report	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
Semester 2	CH3203	Advanced Physical Chemistry	15 credits
Semester 2	CH3204	Biological Chemistry	15 credits
Semester 2	CH3205	Metals in Synthesis	15 credits
Semester 2	CH3206	Advanced Analytical Chemistry	15 credits
Semester 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 with Year in Industry

### Level 4/Year 1 2021/22

#### 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	CH1200	General Chemistry	15 credits
Sem 1	CH1206	Scientific Method & Principles of Analytical Chemistry	15 credits

Delivery period	Code	Title	Credits
Sem 2	CH1209	Introductory Pharmaceutical Chemistry	15 credits
Year long	CH1201	Introductory Organic Chemistry	15 credits
Year long	CH1202	Introductory Inorganic Chemistry	15 credits
Year long	CH1203	Introductory Physical Chemistry	15 credits
Year long	CH1204	Chemistry Key Skills and Maths	15 credits
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      2022/23

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	BS2013	Physiology and Pharmacology	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

Delivery period	Code	Title	Credits
Year long	CH2203	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.

#### Year in Industry 2023/24

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	n/a	n/a	n/a
Optional	n/a	n/a	n/a

0 credits in total

Core modules

Delivery period	Code	Title	Credits
Year long	ADCH223	On Placement	n/a

#### Notes

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

#### Level 6/Year 3 2024/25

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	30 credits	45 credits	15 credits
Optional	n/a	n/a	30 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	CH3261	BSc Project Practical	15 credits
Sem 2	CH3211	Pharmaceutical Chemistry	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3262	BSc Project Report	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
Semester 2	CH3203	Advanced Physical Chemistry	15 credits
Semester 2	CH3204	Biological Chemistry	15 credits
Semester 2	CH3205	Metals in Synthesis	15 credits
Semester 2	CH3206	Advanced Analytical Chemistry	15 credits
Semester 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 Chemistry with Enterprise

**Level 4/Year 1      2021/22**

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	CH1200	General Chemistry	15 credits
Sem 1	CH1800	Introduction to Enterprise and Entrepreneurship	15 credits
Sem 2	CH1801	Business Analysis	15 credits
Year long	CH1201	Introductory Organic Chemistry	15 credits
Year long	CH1202	Introductory Inorganic Chemistry	15 credits
Year long	CH1203	Introductory Physical Chemistry	15 credits
Year long	CH1204	Chemistry Key Skills and Maths	15 credits
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      2022/23**

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	CH2800	Accounting and Finance	15 credits
Sem 2	CH2801	Formulating Start-up Strategy	15 credits
Year long	CH2201	Organic Chemistry	15 credits
Year long	CH2202	Inorganic Chemistry	15 credits
Year long	CH2203	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      2023/24**

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	45 credits	30 credits	30 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	CH3202	Advanced Inorganic Chemistry	15 credits
Sem 1	CH3261	BSc Project Practical	15 credits
Sem 2	CH3802	Leadership, Culture, and Ethics	15 credits
Sem 2	CH3203	Advanced Physical Chemistry	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3262	BSc Project Report	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
Semester 1	CH3800	Internship Report	15 credits
Semester 1	CH3801	People, Operations, and Marketing	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 Chemistry with Enterprise with Year in Industry

**Level 4/Year 1      2021/22**

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	CH1200	General Chemistry	15 credits
Sem 1	CH1800	Introduction to Enterprise and Entrepreneurship	15 credits
Sem 2	CH1801	Business Analysis	15 credits
Year long	CH1201	Introductory Organic Chemistry	15 credits
Year long	CH1202	Introductory Inorganic Chemistry	15 credits
Year long	CH1203	Introductory Physical Chemistry	15 credits
Year long	CH1204	Chemistry Key Skills and Maths	15 credits
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      2022/23**

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	CH2800	Accounting and Finance	15 credits
Sem 2	CH2801	Formulating Start-up Strategy	15 credits
Year long	CH2201	Organic Chemistry	15 credits
Year long	CH2202	Inorganic Chemistry	15 credits
Year long	CH2203	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.

**Year in Industry      2023/24**

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	n/a	n/a	n/a
Optional	n/a	n/a	n/a

0 credits in total

Core modules

Delivery period	Code	Title	Credits
Year long	ADCH223	On Placement	n/a

**Notes**

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

**Level 6/Year 3      2024/25**

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	45 credits	30 credits	30 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	CH3202	Advanced Inorganic Chemistry	15 credits
Sem 1	CH3261	BSc Project Practical	15 credits
Sem 2	CH3802	Leadership, Culture, and Ethics	15 credits
Sem 2	CH3203	Advanced Physical Chemistry	15 credits
Year long	CH3260	BSc General Paper and Key Skills	15 credits
Year long	CH3262	BSc Project Report	15 credits

**Notes**

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

**Option modules**

<b>Delivery period</b>	<b>Code</b>	<b>Title</b>	<b>Credits</b>
Semester 1	CH3800	Internship Report	15 credits
Semester 1	CH3801	People, Operations, and Marketing	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).

**Appendix 3: Skills matrix**