

# Department of Chemistry

BSc (Hons) / MSci (Hons) / MChem (Hons)



UNIVERSITY OF  
**BATH**



Undergraduate Programmes Handbook  
2019-2020

*This handbook is available in electronic format via the Department Moodle (virtual learning environment) pages. The online version includes live links to information sources.*

*If you require a copy in large font or another format please contact the Undergraduate Programme Administrator at [chemistry-ug-admin@bath.ac.uk](mailto:chemistry-ug-admin@bath.ac.uk)*

*Every effort has been made to ensure that the information contained within this handbook is accurate and up-to-date.*

### **Academic Year 2019-20**

These dates are correct at the time of going to print – please check on the University's semester dates website for up-to-date information during the year: <http://www.bath.ac.uk/corporate-information/academic-year-dates/>

Semester 1	Dates
New student arrivals	Saturday 21 September 2019 - Sunday 22 September 2019
Welcome Week	Monday 23 September 2019 - Sunday 29 September 2019
Semester 1	Monday 30 September 2019 - Friday 13 December 2019
Semester 1 vacation	Monday 16 December 2019 - Friday 3 January 2020
Semester 1	Monday 6 January 2020 - Friday 24 January 2020

Semester 2	Dates
Semester 2	Monday 3 February 2020 – Friday 3 April 2020
Semester 2 vacation	Monday 6 April 2020 - Friday 17 April 2020
Semester 2	Monday 20 April 2020 - Friday 29 May 2020

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# Welcome

## *Introduction to the Department and Undergraduate Programmes*



This handbook contains important information about the Department of Chemistry and the University of Bath. You will need to consult it throughout the year. It contains details of the teaching programme(s), examination procedures and requirements for qualification to progress to the next year of study. ***If you have any questions regarding procedural or other aspects of the course, please look in this handbook first – you may well***

***find the information you need.***

An extremely important source of information is “**Moodle**”, the University’s Virtual Learning Environment (VLE). This can be accessed via the following link: <https://moodle-ro.bath.ac.uk/> or from the University’s WWW home page. A copy of this handbook is available on Moodle on the *Chemistry Undergraduate Information Hub* in the *Useful Documentation* section. This version may be updated throughout the year so it is strongly recommended you look at it regularly.

In addition to the online resources such as Moodle, it is really important that you check your Bath University e-mail regularly (daily) this will be the main source of communication. Each year of the course has a separate panel and you should make a habit of checking the boards regularly, perhaps after your laboratory classes in 3 South. Other important and urgent information (such as examination instructions) will be posted from time to time on these notice boards. The ‘pigeon holes’ through which your mail and other messages will be distributed are also in this area of 3 South. The Student Chemical Society (**chemsoc**) has its notice board in 3 South, while activities of the Royal Society of Chemistry, seminars by visiting lecturers and job opportunities are displayed on notice boards in 1 South.

During registration online (ROL), you will be given a University username and password to enable you to access the computer network for e-mail and other computing services, including World Wide Web access and Moodle. We make extensive use of these forms of communication (including using some computer based learning activities). You will need to regularly check your university e-mail account for messages – typically on a twice daily basis, once in the morning and once in the evening. Your tutors and lecturers will use e-mail to tell you about times for tutorials and meetings as well as any lectures or workshops which have to be rearranged at short notice. Note that we will only use your university e-mail address, not any other account that you may have with a different ISP. If you send an e-mail to a member of staff **please sign your email with your name and surname as well as your year and programme of study** (i.e. Year 1 Chemistry, Year 2 Chemistry for Drug Discovery etc). While some members of staff may respond to e-mails out of normal work hours, this should not be expected.

## About This Handbook

This Handbook is intended for all students commencing the BSc(Hons) Chemistry, BSc(Hons) Chemistry for Drug Discovery, BSc(Hons) Chemistry with Management, MChem(Hons) Chemistry, MChem(Hons) Chemistry for Drug Discovery, and MSci(Hons) Chemistry with Management (some courses have the option of a Study Year Abroad or placement year in industry) in the academic year 2019/20.

Please note that the contents of this Handbook are accurate at 19<sup>th</sup> September 2019 but that information may sometimes be subject to change after this Handbook has been issued. Your Director of Studies or Unit Convenor will inform you of any changes that will affect your programme or a particular unit. For further information about unit and programme changes, see the **Unit and programme changes** section in this Handbook.

While this Handbook signposts information about **regulations for students**, it does not have regulatory status itself, and the Regulations available online (Regulations for Students: [www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students) and Assessment Regulations: [www.bath.ac.uk/corporate-information/new-framework-for-assessment/](http://www.bath.ac.uk/corporate-information/new-framework-for-assessment/)) are the most up-to-date and take precedence over the contents of this Handbook.

If in doubt about what applies to you, or if your circumstances change (for example if you are returning from a suspension of study, or transferring to a different programme) please contact your Director of Studies [Dr Claire McMullin year 1, Dr Gan Shermer year 2 and Dr Mary Mahon year 3-5] for advice.

## **Key members of staff in the Department of Chemistry**

All staff are in 1 South unless indicated otherwise. The telephone numbers listed can be dialled from any internal University telephone. From outside the University, add (01225) 38 to the number (e.g. x 6504 becomes 01225 386504).

Key Staff	Title	Room	Tel.	E-mail
Professor Andrew Burrows	Head of Department	0.08	6529	<a href="mailto:a.d.burrows@bath.ac.uk">a.d.burrows@bath.ac.uk</a>
Professor Matthew Jones	Director of Teaching	1.21	4908	<a href="mailto:m.jones2@bath.ac.uk">m.jones2@bath.ac.uk</a>
Dr Claire McMullin	Director of Studies for Year 1	WH 1.24	4428	<a href="mailto:c.mcmullin@bath.ac.uk">c.mcmullin@bath.ac.uk</a>
Dr Gan Shermer	Director of Studies for Year 2	WH 1.20	6382	<a href="mailto:g.shermer@bath.ac.uk">g.shermer@bath.ac.uk</a>
Dr Mary Mahon	Director of Studies for Years 3, 4 and 5	1.09	3752	<a href="mailto:m.f.mahon@bath.ac.uk">m.f.mahon@bath.ac.uk</a>
Dr Mary Mahon	Senior Tutor	1.09	3752	<a href="mailto:m.f.mahon@bath.ac.uk">m.f.mahon@bath.ac.uk</a>
Kate Remington, Shula Dennard	Departmental Coordinators	0.19	6815	<a href="mailto:chem-admin@lists.bath.ac.uk">chem-admin@lists.bath.ac.uk</a>
Krishtee Limbu	Departmental Secretary	0.19	6444	<a href="mailto:chem-admin@lists.bath.ac.uk">chem-admin@lists.bath.ac.uk</a>
Steph Skaife (Undergraduate Enquiries)	Undergraduate Administrator (Chemistry)	UG Hub 4South 0.03	4879	<a href="mailto:chemistry-ugadmin@bath.ac.uk">chemistry-ugadmin@bath.ac.uk</a>

In Years 1 and 2 you are allocated a subject tutor for each of Inorganic (I), Organic (O), and Physical (P) chemistry, and you will have a tutorial with one of your subject tutors every week.

In addition, you have a **Personal Tutor** in the Department. If you are unsure of who this is, contact Dr Mary Mahon (the Senior Tutor of the Department) or the Undergraduate Programmes Administrative Team located in 4S 0.03, or the Director of Studies for your year of study. The responsibility of your Personal Tutor is to monitor your academic progress (they will *normally* be one of your three subject tutors) and he/she will ask you to attend short meetings to discuss progress. It is a regulation of the University that you attend these meetings. In addition, and perhaps, more importantly, your Personal Tutor also acts in a pastoral role. **If you have a problem, your Personal Tutor should be the first person you approach.** If he/she feels that your problem cannot be directly solved, you may be recommended to seek further advice from another source within the Department or the University.

You will be taught by the following members of academic staff in the Department of Chemistry:

## Who's Who

Academic Staff	Room	Tel.	E-mail prefix (@bath.ac.uk)
Dr Antoine Buchard	5W 2.28	6122	<u>a.buchard</u>
Prof Steven Bull	0.20a	3551	<u>s.d.bull</u>
Prof Andrew Burrows	0.08	6529	<u>a.d.burrows</u>
Dr Petra Cameron	0.18	6116	<u>p.i.cameron</u>
Dr David Carbery	1.17	6144	<u>d.carbery</u>
Dr Jonathan Cox	1.10	6548	<u>j.p.l.cox</u>
Dr Alex Cresswell	0.9	5382	<u>a.j.cresswell</u>
Prof Matthew Davidson	0.10	6443	<u>m.g.davidson</u>
Dr Fiona Dickinson	WH 1.18	6414	<u>f.dickinson</u>
Prof Carmen Domene	0.11	6172	<u>c.domene</u>
Prof Karen Edler	1.02	4192	<u>k.edler</u>
Dr Steve Flower	WH 1.22	4881	<u>s.e.flower</u>
Dr Simon Freakley	4S 0.12	5150	<u>s.freakley</u>
Prof Christopher Frost	1.16	6142	<u>c.g.frost</u>
Dr Matthew Grayson	1.25S	4964	<u>m.n.grayson</u>
Prof Mike Hill	1.23	3394	<u>m.s.hill</u>
Dr Ulrich Hintermair	WH 1.27	6682	<u>u.hintermair</u>
Prof Saiful Islam	1.23a	4938	<u>m.s.islam</u>
Prof Tony James	0.21	3810	<u>t.d.james</u>
Prof Toby Jenkins	0.12	6118	<u>a.t.a.jenkins</u>
Dr Andrew Johnson	1.03b	4467	<u>a.l.johnson</u>
Prof Matthew Jones	1.21	4908	<u>m.jones2</u>
Prof Barbara Kasprzyk-Hordern	1.54b	5013	<u>b.kasprzyk-hordern</u>
Dr Randolph Köhn	1.03a	3305	<u>r.d.kohn</u>
Dr Maciek Kopec	1S 1.54b	6504	<u>m.kopec</u>
Dr Simon Lewis	0.20	6568	<u>s.e.lewis</u>
Dr David Liptrot	1.54C	5432	<u>d.j.liptrot</u>
Dr Mary Mahon	1.09	3752	<u>m.f.mahon</u>
Prof Frank Marken	0.05	3694	<u>f.marken</u>
Dr Claire McMullin	WH 1.24	4428	<u>c.mcmullin</u>
Dr Ben Morgan	0.13	6128	<u>b.j.morgan</u>
Dr Alex O' Malley	4S 0.11	4968	<u>a.o'malley</u>
Dr Dan Pantos	1.54a	4376	<u>g.d.pantos</u>

Prof Steve Parker	1.24	6505	<u>s.c.parker</u>
Prof Sofia Pascu	1.11	6627	<u>s.pascu</u>
Dr Asel Sartbaeva	1.13	5410	<u>a.sartbaeva</u>
Prof Janet Scott	1.18	6073	<u>j.l.scott</u>
Dr Gan Shermer	WH 1.20	6382	<u>g.shermer</u>
Dr Adam Squires	1.34	6569	<u>a.squires</u>
Dr Elizaveta Suturina	WH 1.28	6426	<u>e.suturina</u>
Dr James Taylor	0.9	4533	<u>j.e.taylor</u>
Dr Ruth Webster	1.04	6103	<u>r.l.webster</u>
Prof Michael Whittlesey	1.20	3748	<u>m.k.whittlesey</u>
Prof Chick Wilson	0.02	6143	<u>c.c.wilson</u>

## Instrument Specialists

Staff Member	Room	Tel.	E-mail prefix (@bath.ac.uk)
Dr Remi Castaing	WH 2.31A	4485	<u>r.castaing</u>
Dr Gabriele Kociok-Kohn (X-ray)	1.35A	6520	<u>g.kociok-kohn</u>
Dr John Lowe (NMR)	0.46	3474	<u>j.lowe</u>
Dr Anneke Lubben	5W 2.33	4173	<u>a.t.lubben</u>
Dr Catherine Lyall (NMR)	9W 0.02	5555	<u>c.l.lyall</u>
Dr Shaun Reeksting (MS)	5W 2.31A	4485	<u>s.b.reeksting</u>

The building is 1 South unless otherwise stated. There are a few office moves planned for 2019 so please check person finder if you are unsure: <http://www.bath.ac.uk/contact/?search=advanced>

## Programme Information

Please note that the content of the programme description below is correct at the time of production of this Handbook and that programmes and units may be subject to reasonable change (see **Unit and Programme Changes** below).

Current versions of unit and programme descriptions are available via the online Unit and Programme Catalogues: <http://www.bath.ac.uk/catalogues/>

All courses at the University of Bath consist of **programmes of study**. For example, the BSc in Chemistry with Industrial Training is one programme, as is the MChem in Chemistry for Drug Discovery. Each programme consists of a number of **units** – some mandatory, some optional – each of which has a **credit** rating. All lecture-based units in Chemistry are worth 3, 6 or 12 credits.

In the modular system, you have to study a minimum of 60 credits per year. You can study additional units if you wish, such as a language, but the permitted maximum is 66 credits per year.

The first two years of the degree programmes are designed to give a good grounding in a range of important topics and are common to both BSc and MChem (or MSci) programmes. The choice between BSc and MChem (or MSci) programmes is primarily determined at the end of Year 2. However, there is a 50% overall average threshold at the end of Year 1 to stay on, or transfer to, the MChem (or MSci) programme. Students who fail to meet this threshold are not precluded from the MChem (or MSci) courses, provided they meet the Year 2 threshold of 55% overall average. It is also permissible to transfer onto the MChem/MSci programme in Year 3 provided the appropriate optional units have been selected and an average mark in Semester 1 of 60% has been obtained. Any student interested in changing programme at this stage should discuss it with the Year 3/4 Director of Studies.

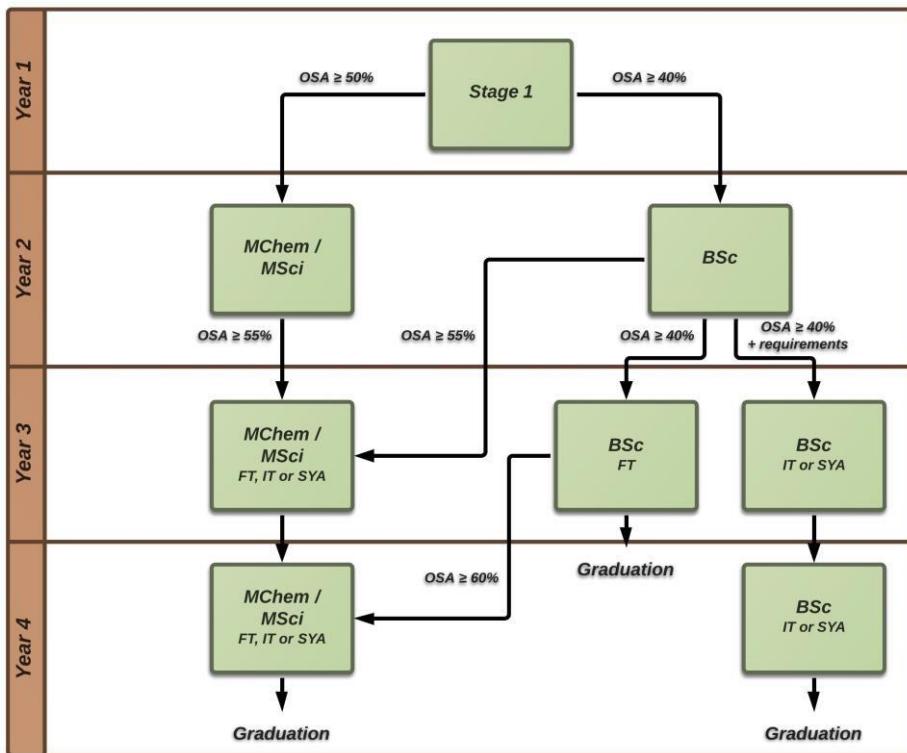
The current Placement and Study Year Abroad (SYA) threshold requirement is a weighted average mark for Year 1 of at least 40%; for some SYA partner universities where demand is high (e.g. USA) and for Industrial Placements an average higher than this will be required. There are additional Departmental requirements to undertake to be allowed to proceed with a placement or SYA application – these will be explained in a briefing towards the end of Year 1.

Those students studying chemistry who intend to make their career in the professional practice of the subject will have the opportunity of studying for MChem (MSci in Chemistry with Management) rather than BSc if they maintain a performance at the appropriate level. The implications of this and the variations of the MChem/MSci courses will be explained during the year. In the Final Year of the BSc and Years 3 and 4 of MChem/MSci, there is a wide range of options for you to choose from so that you can follow the branches of the subject(s) which interest you most.

Minor changes between programmes will occur either by choice or because you have failed to meet the requirements for a particular programme of study; e.g. changing from year abroad to placement, or moving off the MChem/MSci programme if you do not attain a weighted average mark 50.00% average for Year 1, and/or a 55.00 a weighted average mark for Year 2.

This is summarised in the following flowchart:

OSA is overall stage average (*i.e.* credit-weighted average for the year of study)\* FT is full-time, IT is industrial training and SYA is study year abroad.



- \* This above text and flowchart use “Year” where some University documentation uses “Stage”: there is a subtle distinction between these terms which is most relevant for part-time programmes. Within the Department of Chemistry, the two terms may be considered synonymous for most purposes and usually we use “Year”.

Other University documents (in particular “NFAAR” – see below) also mention “Parts” of a programme. In the context of Chemistry programmes, the first year is Part 1 (which does not contribute to the final degree classification) and the final year is Part 3; all years that come between these together make up Part 2.

## Programme Structure

**Full time programmes (USCH-XXXXX is the programme code and used at Bath for us to know the programme you are on)**

USCH-AFB01	BSc (hons) Chemistry
USCH-AFB07	BSc (hons) Chemistry for Drug Discovery
USCH-AFB03	BSc (hons) Chemistry with Management
USCH-AM02	MChem (hons) Chemistry
USCH-AM05	MChem (hons) Chemistry for Drug Discovery
USCH-AM07	MSci (hons) Chemistry with Management

### ***Study Year Abroad Programmes***

USCH-AAB02	BSc (hons) Chemistry with Study Year Abroad
USCH-AAB08	BSc (hons) Chemistry for Drug Discovery with Study Year Abroad
USCH-AAB04	BSc (hons) Chemistry with Management with Study Year Abroad
USCH-AAM03	MChem (hons) Chemistry with Study Year Abroad
USCH-AAM06	MChem (hons) Chemistry for Drug Discovery with Study Year Abroad

### ***Thick Sandwich Programmes***

USCH-AKB02	BSc (hons) Chemistry with Industrial Placement
USCH-AKB08	BSc (hons) Chemistry for Drug Discovery with Industrial Placement
USCH-AKB04	BSc (hons) Chemistry with Management with Industrial Placement
USCH-AKM02	MChem (hons) Chemistry with Industrial Placement
USCH-AKM03	MChem (hons) Chemistry for Drug Discovery with Industrial Placement
USCH-AKM07	MSci (hons) Chemistry with Management with Industrial Placement

To find the most up to date information about the content of your programme and any current unit options go to [go.bath.ac.uk/catalogue](http://go.bath.ac.uk/catalogue) and select the current year of study and Chemistry. Unit availability may change from year to year.

**Units may be removed or added from time to time and the online programme catalogue will be updated accordingly.**

Note: University documentation uses the following terms in relation to programmes.

**Designated Alternative Programme (DAP):** failure to meet the threshold to continue on (say) an MChem programme may lead to a student being transferred to a BSc programme, which is the DAP for the MChem. The MChem is said to be “**coexistent**” because it has a DAP. The BSc is sometimes said to be “**standalone**” because it has no DAP: failure to meet the threshold to continue on the programme leads to withdrawal from the University.

**Appendix A has links to full details of the structure of each programme listed above.**

### ***Professional Body Accreditation***

All programmes are accredited by the Royal Society of Chemistry.

### ***Project Work***

In your third and/or final year of study you will undertake project work. This will vary according to your programme and options that you choose. Depending on your degree programme there are literature, dissertation, University Ambassador Scheme (UAS), public engagement and research projects available. A list of titles and brief descriptions of these projects will be available in a separate booklet or on Moodle at the start of the academic year. Please read these descriptions carefully and talk directly with members of the academic staff for further information. There will also be a poster presentation about research going on in the Department that may help you decide on research project areas. This will be given by members of staff during Week 1 in 1 South. We will endeavour to satisfy student preferences but, owing to pressure upon available resources, we can provide no

guarantee that you will be allocated your first-choice area. An e-notice will be posted to inform you of the allocation of projects. There will be a safety induction before you will be able to start laboratory work.

Your project work is worth a large proportion of your credits and should therefore amount to an average of between two and five days work per week in one or both semesters *depending on your programme*. The timetables for Years 3, 4 and 5 make Tuesdays and Wednesdays largely available for project work, but other times may be possible with the agreement of your supervisor. Remember, this time allocation needs to cover *all* aspects of your work – practical, preparation time, background reading, preparation of assessments *etc*. The precise distribution of time during the week and between semesters should be discussed with your supervisor.

*Formal assessment* of projects will take place toward the end of the appropriate semester and will comprise of several parts. These will vary according to the unit taken but may include the *written report*, an *oral presentation*, and a *viva-voce* examination with a panel of assessors; details will be given nearer the time.

Your supervisor will be issued with an accounting code against which any approved expenditure incurred for the project should be charged. *Spending must be agreed in advance with your supervisor.*

### ***Departmental Assessment***

All of the Department's programmes are fully compliant with the University's New Framework for Assessment: Assessment Regulations (NFAAR), and these regulations apply to all students.

Further information about the (NFAAR) is available at [go.bath.ac.uk/ka6q](http://go.bath.ac.uk/ka6q) and later in this handbook.

### ***Calculation of an Overall Stage Average (OSA) or End-of-Year mark***

A student's mark in each year (OSA) is obtained by a weighted average of the marks for units he/she has taken in that year. The unit marks are weighted according to the number of credits they are worth. Note that the marks obtained in 'extra' units (above the 60 credits of your programme) in e.g. languages during Years 1 and 2, do not contribute to the OSA, although they will appear on a student's transcript.

The NFAAR describes the rules for progression from one stage of the programme to the next (including supplementary assessment, and the extent of failure that can be condoned) as well as for the award of degrees. You will be assessed according to these rules; further information about the NFAAR is available at [go.bath.ac.uk/ka6q](http://go.bath.ac.uk/ka6q).

### ***The Teaching Programme***

Lectures are the main method for introducing new concepts and defining the syllabus. For each six credits, a unit will typically offer 3 lectures/workshops per week.

Small group tutorials (typically 6 students) will be held at the rate of one per week throughout the year in Years 1 and 2. Allocations of students to groups and the precise timetable to be followed will be published separately and distributed during induction meetings. The tutorial format will vary but will normally involve solution of problems or preparation of longer written type answers, which will

be discussed at the session. Sometimes, a hand-in of work for marking prior to the tutorial may be required. Specific slots are included in the timetable for tutorials but other mutually acceptable times could be used instead e.g. if the time clashes with an option lecture or a teaching commitment for your tutor. ***It is a matter of courtesy to inform your tutor before the tutorial if you cannot attend a tutorial at the arranged time*** and the reasons for non-attendance at any tutorial should be discussed with the appropriate tutor. We regard tutorial attendance as **compulsory** as this is our major route to monitoring your progress and attendance. As such, the Department has a means of monitoring and recording tutorial attendance/non-attendance. **Students who regularly miss tutorials will be regarded as failing to engage with their programme.**

Problem-based workshops will operate during the weeks using the timetabled lecture slots. For some units these will be distinct from the lectures, whereas for others the problems will be integrated into the lectures. In addition, some *ad-hoc* workshops in extra problem solving may be organised on an informal basis.

Lectures, with integrated problem-solving content (or separate workshops) and tutorials (along with the practical classes described below) are the major components of the teaching programme. However, the most important part of a university education is what you ***study in your own time***. You need to develop a habit of reading around topics in textbooks. Also, a variety of computer-aided learning is available, for example, video material in laboratories and on Moodle. Individual lecturers will direct you to appropriate sources to support their units. Most lecturers will make use of Moodle for posting lecture-related material and directing you to relevant sources etc. You will find past examination papers on the Library web site at: [www.bath.ac.uk/library/exampapers/exam1.php](http://www.bath.ac.uk/library/exampapers/exam1.php)

### ***Key Skills Programme***

On your timetable you will notice hours allotted to Key Skills. These are sessions dedicated to subjects such as how to find scientific information, how to avoid plagiarism, CV preparation, how to write a lab report etc. These are extremely useful to attend as they offer a great deal of information and support for your studies.

### ***Laboratory Work***

Chemistry is a practical subject and an important aim of the course is to develop technical expertise, as well as encouraging a scientific approach to thinking about and writing up experiments. Laboratory reports are considered as a coursework assessment. In Years 1 and 2 you will be in the chemistry laboratories for one to one and a half days every week. In the final year this will vary according to your programme of study.

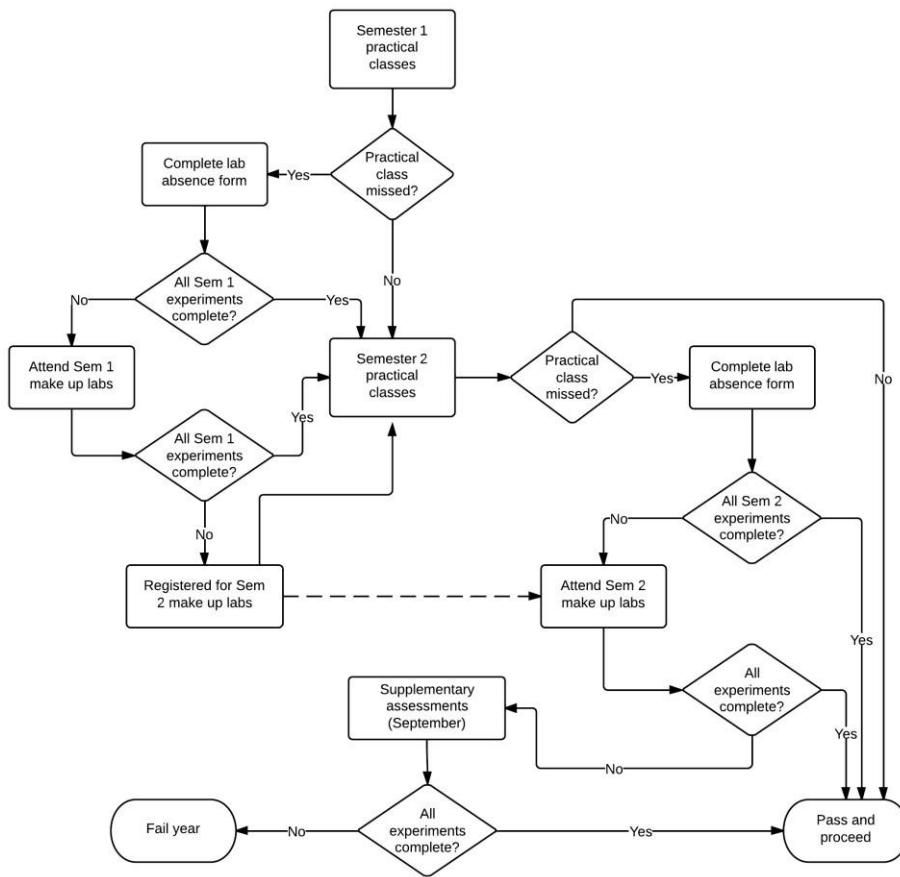
### ***Laboratory Attendance Procedures***

The following rules apply to all chemistry practical classes from Year 1 to the final year and include the laboratory component of the Natural Science courses.

1. Attendance at **ALL** practical classes is compulsory for **ALL** students, and you are expected to complete **ALL** assessed experiments.

2. If you miss a practical class, or part thereof, you may be able to make up the work in the remaining sessions left (see point 3 below). However, in many cases this will not be possible and so there will be one-two days of 'make up' labs at the end of each semester where you have an opportunity to catch-up missed experiments. The dates of these for this academic session are provisionally set as follows: **Year 1, Semester 1, week 11** and **Semester 2, week 30/31** and **Year 2, Semester 1, Week 17** and **Semester 2, Week 31**. You should make a note of these dates. In the event of examination clashes they may be moved to other days during the University assessment period.
3. In order to be eligible for these make-up sessions you MUST submit an electronic lab absence form for each day missed by no later than one week from the session. The form is available on the department's **Moodle site (Chemistry Undergraduate Information Hub)**.
4. As there are only two days of make-up labs at the end of each semester, this will clearly limit the number of experiments you can catch up during each semester. If you fail to make up all experiments missed in Semester 1 then this rolls over and you will need to attend the makeup labs in Semester 2 as well.
5. Make-up labs are designed for genuine reasons for lab absence only, *e.g.* illness, family emergency, attending placement interviews, or a sports event where you are representing at university level. You may be asked to provide supporting evidence - particularly if multiple labs are missed.
6. If practical classes have been missed and not caught up during the make-up labs, this will normally result in the failure of the unit.
7. In the event that genuine mitigating circumstances mean that you have been unable to complete 100% of all assessed experiments, the Director of Studies may allow you to carry out the missing experiments during the supplementary assessment period (August/September). You will need to supply supporting evidence. Failure at this point will mean you are not able to progress to the next year of study.
8. The minimum pass mark (40.00%) must be achieved in all lab units along with a PASS attendance mark since for all chemistry programmes these are **Designated Essential Units (DEUs)**.

## Laboratory Schedule



## School of Management Units

Some departments in the University have a policy that every individual element of assessment must be passed in order for a whole unit to be passed. *This particularly affects Chemistry students taking Management units.* **Beware:** it is essential to pass each coursework component of an “MN” unit (e.g. a mid-semester MCQ test) as well as the end-of-semester exam, even if the weighted average of the unit as a whole  $\geq 40\%$ ; failure of one component not only requires supplementary assessment in that component but also causes the mark for the whole unit to be capped at 39%.

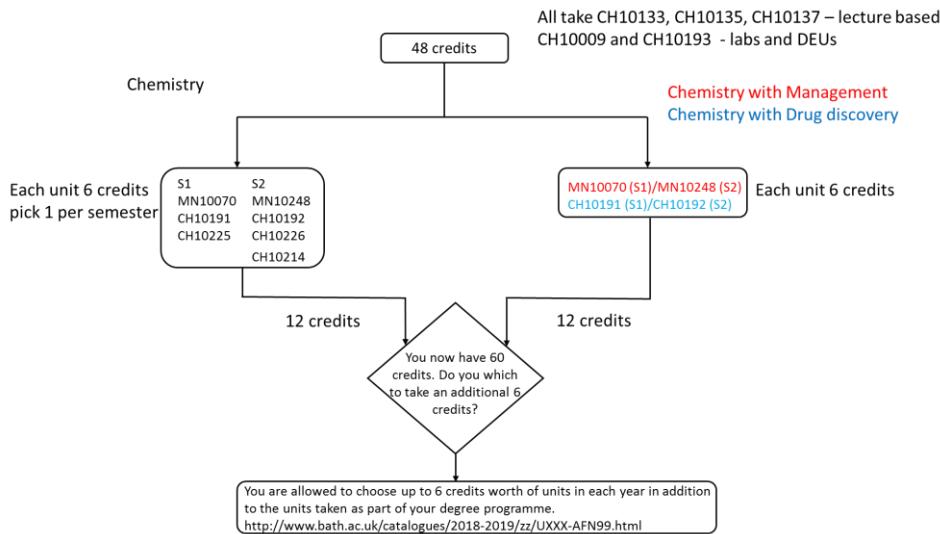
This can have severe consequences for a student’s progression on a Chemistry programme.

## Option Choices

Year 1 – Options for Year 1 students are detailed in the flowchart below. This will be explained to you in detail during Induction Week, but if you need clarification contact your Director of Studies, Dr Claire McMullin.

Final years – You will be asked to make your choices via SAMIS in the April preceding your final year. The Department of Chemistry has a Moodle course on unit choices in order to help you decide on your options and there will also be a Key Skills event that will help you find out more about each optional unit from students who have taken it or are currently taking it.

Final year – You will be asked to make your choices via SAMIS semester 2 preceding your final year. The Department of Chemistry will host a timely Key Skills event that will help you find out more about each optional unit from students who are either currently taking, or have completed, same. Additionally, this information will be placed on a Moodle page, to assist students who are remote from Bath in making their final year unit choices.



## Mathematics

Mathematics skills are essential for all undergraduate chemists especially, though not limited to, study of the units in physical chemistry. While much of the required mathematics is embedded into the chemistry units, there are a number of ways in which Year 1 students can improve their mathematics skills.

ALL students will take a mathematics test in Week 1 as part of the Foundation Laboratory. This allows the academic staff to judge the mathematical ability of each student, and help them accordingly. Students who do not pass the Week 1 test need to attend a series of mathematics lectures as part

of the Foundation Laboratory (CH10009). Progress will be assessed by an examination at the end of Semester 1 which contributes 25% towards the unit mark. Students who only narrowly pass the Week 1 test are also strongly encouraged to attend the CH10009 mathematics lectures.

Students on Chemistry degrees (*i.e.* those not taking Chemistry with Management, Chemistry for Drug Discovery) also have the opportunity to take Mathematics as their Year 1 option (see later).

- Students can choose to take *Mathematics for Chemistry* (CH10214) in Semester 2. This choice would be coupled with any other 6 credit option that is available in semester 1.

### ***Timetable and Key Dates***

Programme and unit timetable information can be found online at:

<http://www.bath.ac.uk/timetable/MyTimetable.htm>

You can also use MyTimetable to create a customised programme timetable that can be downloaded into an electronic calendar: <http://www.bath.ac.uk/timetable/MyTimetable.htm>

A full teaching programme takes place in Semester 1 in Weeks 1-11, before Christmas. Week 15, immediately following the Christmas vacation, is for revision and two weeks of assessment then follow. The schedule of examinations will be published when it is available in December.

The teaching programme recommences at the beginning of February and lasts for eleven weeks, split by the Easter vacation in weeks 28 - 29. In Semester 2, Week 32 there will be a revision week followed by examinations on second semester and all-year units, with the academic year ending at the end of May.

Results will be available through SAMIS, the University's student information system, and you will be informed in advance the dates on which they will be available.

In the event of failure to pass units, supplementary examinations will be held in Bath in the period 12<sup>th</sup> Aug – 21<sup>st</sup> Aug 2020 inclusive. **You are strongly advised to consider these dates when planning your summer holidays or other overseas trips.** Please note that it will not be possible for you to take a supplementary examination at a venue overseas.

The precise exam dates will be notified to you via your SAMIS web page as soon as they are confirmed following the summer examination boards.

### ***Examinations***

Your work in the Department of Chemistry is assessed in several different ways, all of which contribute towards your final degree classification or eligibility for a particular programme of study. The most important, in terms of marks, are the end-of-semester exams. In addition, some lecture courses have assessed coursework associated with them. Details of the contribution of these assessments and examinations are available on the unit catalogue: go to [go.bath.ac.uk/catalogue](http://go.bath.ac.uk/catalogue) and select the current year of study and Chemistry.

The timetable for examinations will be published as soon as it is known, and your personal examination timetable will be accessible via the SAMIS webpage:

[go.bath.ac.uk/SAMISlogin](http://go.bath.ac.uk/SAMISlogin).

Detailed information regarding the examination timetable, coverage of papers etc. will be displayed on Moodle when it is available, well in advance of the examination period. This will include the rubrics of the examination papers. Note that for the majority of chemistry units you will not be allowed to take your own books, notes or calculator into the examination (you may have a few 'open book' examinations). You will be provided by the University with a calculator for the examination - currently a model Casio FX-85ES. You should familiarise yourself with this model prior to the examination period (a calculator is available to borrow from the Library). You will also be provided with a chemistry data sheet containing a Periodic Table and fundamental constants. Copies of this will be available for study prior to the examination period.

### ***Placements***

The University is committed to supporting placements in order to enhance the vocational relevance of its programmes and the learning experience of its students. Each Faculty and the School has a dedicated placements team to support and guide you through the process of applying for, securing and successfully completing a placement. The contact details for your Placements Manager and Placement Tutor can be found in the front of this Handbook.

You can expect to receive placement preparation support on the application process (i.e. CV writing, production of covering letters and applications, interview skills, assessment centres) as well as practical placement support (such as where to find information on visas, accommodation, money etc). For some placements, there is a requirement for a Disclosure and Barring Service (DBS) check and you should liaise with your placements support team for further guidance.

Before going on placement you will receive a University Placement Handbook containing generic advice and information for whilst you are on placement.

You will receive programme specific information directly from your Department in due course. If you are on a placement of one semester or longer in the UK you can normally expect to be visited by staff at least once during your placement. If you are on a placement overseas, staff will either visit, where practical, or arrange an alternative way of keeping in contact.

During the placement you will be expected to complete the Personal Objectives and Learning Outcomes forms (POLO) or equivalent (which helps you to structure your placement objectives and personal development).

A re-induction activity will be conducted to welcome you back from placement and update you on any changes that may have occurred at the University during your time away.

Chemistry students have the option of undertaking their third year on a professional placement. The placement scheme aims to show students chemistry in a real-life setting and to enforce the lectures that you will receive in the first two years of your studies here in Bath. For MChem students, the placement contributes towards the degree classification, and is accompanied by some distance

learning. For BSc students, the placement is pass or fail and does not count towards the degree classification.

The majority of placements are in the UK although we also have links with companies based in Europe and further afield. The application procedure starts at the end of Year 1. Support is provided from the Placements Tutor (Dr Stephen Flower) and the Faculty Placements Team (Helen Edwards and Esther Reeves) during the application process and whilst on placement. The assessment of the placement occurs in various ways - you will be required to write a report, your placement supervisor completes two questionnaires about your performance, and you are required to give a presentation at the placement conference (held at Bath in the February of your placement).

It is our experience that, in the increasingly competitive market for placements, students with an average of less than 50% may struggle to find places. The better you do in Year 1 the more likely it is you will land a placement. If you want a good placement, don't try to coast through the first year!

#### ***Further information***

University Placement Handbook / information for placement students:

<https://www.bath.ac.uk/publications/placements-handbook/attachments.bho/placements-handbook-2019-20.pdf>

#### ***Study Year Abroad***

As an alternative to the placement scheme, students have the option of undertaking their third year at an overseas university. For MChem students, the study year abroad contributes towards the degree classification, and is accompanied by some distance learning. For BSc students, the study year abroad is pass or fail and does not count towards the degree classification. MChem students must carry out a research project as part of their year abroad.

We currently have links with universities in Europe (France, Germany, Spain, Finland) Australia, New Zealand, the USA, Canada and Singapore. The application procedure starts at the beginning of Year 2. Support is provided from the Study Year Abroad Tutor (Dr Randolph Köhn).

#### ***Prizes***

The Department of Chemistry has a number of prizes associated with its programmes including best first year, second year, third year and final year performance.

#### ***Unit and Programme Changes***

We continually look for ways to develop and improve our programmes. For example:

- it might be desirable to make some updates to the content of the curriculum to reflect the latest developments in a particular field of study
- a review of the assessments across a programme (including feedback received) might identify that changes to an assessment would better support student learning.

Students who would be affected by proposed changes are consulted about them, either via their Staff/Student Liaison Committee or directly, depending on the nature of the change.

In addition, it is sometimes necessary to make changes due to unforeseen or unavoidable circumstances. For example:

- the accrediting body for a programme may require changes to be made to it
- it may not be possible to run a particular unit because a member of teaching staff with specialist expertise leaves the University and we are unable to find a suitable replacement
- it may not be viable to run a particular option unit in a given year because very few students select it.

In such cases, the University will always try to ensure that any impact on students is minimised and that students are informed of the changes at the earliest opportunity.

All programme and unit changes are managed through a formal process set out by the University. The aim of this is to ensure that changes are academically appropriate and properly supported, take place in a timely manner, and safeguard the interests of students.

### ***How your Programme is Reviewed and Monitored***

The University has in place a number of ways to ensure that programmes remain up-to-date, issues are dealt with and improvements made.

All programmes and units are monitored annually, looking at evidence for what is working well and identifying any actions that need to be taken. Taking account of student feedback, including feedback given through unit evaluation and other student surveys, is a key part of unit and programme monitoring.

Departments also conduct periodic reviews of their programmes. These provide an opportunity for in-depth review and development, involving input from students and from an adviser(s) external to the University.

# Study and support: Getting the Most out of your Studies

## **Accessing University Email**

You will need to use your University username and password to access your University email account. You are able to access your email by going to <http://outlook.office.com/>

Your username also forms your email address ([username@bath.ac.uk](mailto:username@bath.ac.uk)).

The University will often communicate with you about a range of important matters requiring action from you, including registration, unit enrolment, assessment, degree ceremonies, and matters such as tuition fees, via your University email account. It is a University requirement (Regulation 1.3) that you access your University email account regularly (typically, twice daily in the working week), even if you are out on placement or study abroad.

**You therefore have a responsibility to ensure that your University email account can receive incoming mail and that you read your email regularly.**

Once you graduate or withdraw from your course, you will receive an email stating exactly when your account will be closed. The email will give at least 30 days' notice.

### ***Further information***

Email guidance: [www.bath.ac.uk/guides/accessing-your-university-email-and-calendar](http://www.bath.ac.uk/guides/accessing-your-university-email-and-calendar)

Regulation 1.3: [www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students)

## **Your Student Record: SAMIS**

SAMIS is the University's student records database. It provides an online portal where you can view details about your registration, update your contact details, and do other things such as viewing exam information, viewing your confirmed assessment results, and (where applicable) choosing optional units.

### ***Further information***

<https://samis.bath.ac.uk>

## **Moodle**

Moodle is the Virtual Learning Environment (VLE) used at the University of Bath. It is used by academic Departments to support learning and teaching at programme and unit level. It provides a platform for the delivery of resources and online activities, and can also support student interaction and collaboration.

### ***Further information***

<https://moodle.bath.ac.uk/course/view.php?id=714>

## ***Personal Tutoring***

When you join the University, you will be assigned a Personal Tutor who will help you to get the best out of your university experience. Your Personal Tutor will:

- support you in your academic progress and personal development
- discuss with you programme choices, placement opportunities and future career plans
- provide you with a reference for your placement or career
- guide you to sources of expert help with any personal/welfare issues.

Your Personal Tutor should arrange to meet with you on at least three occasions in your first semester and at least once per semester thereafter. This enables you both to get to know each other, such that you can raise any issues with your tutor and your tutor can support you fully through your programme. It is important that you attend scheduled meetings with your Personal Tutor and let them know in advance if you cannot attend. Many of these meetings may be in small groups but you can also request a one-to-one meeting. While meetings may be held in small group format, your Personal Tutor should offer you the opportunity to meet individually at least once a semester.

If you have concerns with respect to your Personal Tutor, please contact your Director of Studies to discuss the matter in the first instance.

## ***Language and Academic Skills Support and Development***

To help you get the best out of your studies and your future employability, we offer all our students a comprehensive range of year-round skills and personal development opportunities designed to complement your academic programme.

These opportunities have been designed to give you choice and flexibility to help you get the support and development you need at the time you most need it.

You can choose from classes, tutorials, drop-in sessions, workshops and online resources, to develop a range of skills, including how to:

- create well-written, clearly structured essays, reports and dissertations
- think critically in order to enhance your writing
- manage information sources and literature effectively
- give polished and effective academic presentations
- manage and analyse numbers, data and statistics
- enhance your use of mathematical tools
- use IT tools and resources effectively
- enhance your existing language proficiency, or learn a new language.

There are many opportunities available to you through our Careers Service and Students' Union to help you develop your skills and prepare for the workplace. For example:

- writing an effective job application and CV
- succeeding at interview or assessment centre
- leading and managing projects
- chairing meetings
- running a club or society.

#### ***Further information***

Find out more about the skills support and development opportunities available here:

<http://go.bath.ac.uk/skills>

#### ***Recognition for Extra-Curricular Activities: The Bath Award***

The Bath Award is open to all undergraduate and postgraduate students. It recognises the experiences, skills and strengths you have gained through participation in extra-curricular activities, volunteering, work experience, part-time work, global opportunities and more. The Award enables you to reflect on your personal development as a student and future employee. Completing the Award will enhance your employability, increase self-awareness of your skills and enable you to articulate these effectively to future employers.

#### ***Further information***

[thesubath.com/bathaward](http://thesubath.com/bathaward)

#### ***The Library***

The Library is open 24 hours a day, all year round, and provides print and electronic materials and information services to support study and research across the University. It houses over 500 PCs, wireless networking throughout, and provides areas for both quiet individual study and group work. Alongside 360,000 printed books, it offers over 26,000 electronic journals, 516,000 electronic books, 100 databases for information, literature and data searching, the University's exam papers database, and digital versions of the University's academic publications. The Library's electronic services, resources and support materials are all available directly from the Library's web pages (<https://library.bath.ac.uk/home>). The Library's copy and print service provides access to black and white and colour photocopying, laser printing and scanning.

Information specialists, our Subject, School and Faculty Librarians are responsible for services to individual Departments and the School. You will find their contact details, and subject specific guidance on the dedicated web pages they have created. These pages include a large range of recommended resources and support materials and are listed under 'Resources for your Subject' on the Library homepage (<https://library.bath.ac.uk/home>).

Our Subject, School and Faculty Librarians provide individual help to students and staff, as well as teaching information skills in Department and School programmes and through general University skills provision. All new students receive library introduction sessions during the induction period.

#### ***Further information***

This Department's library resources page is: <https://library.bath.ac.uk/chemistry>

For information on all library services and resources: [www.bath.ac.uk/library](http://www.bath.ac.uk/library)

#### ***Computing Services and Facilities***

Using your University username and password, you will be able to connect to University computers, University email, the internet, file storage and printing services. You will also be able to get access to a range of free software, including Office 365 and antivirus. You can work from any location using our UniDesk and UniApps service, which gives you access to your files as if you were on campus.

If you would like to know more about these services, and how to access them, please visit: <http://www.bath.ac.uk/campaigns/setting-up-your-it-as-a-student/>

IT Support is available from the IT Service Desk on Level 2 of the Library or online at: <https://www.bath.ac.uk/guides/getting-it-support-and-advice/>

If you require learning assistance, Computing Services can support you with your computing needs. The Assistive Technology Team is available to provide advice and support. Additional resources are available, which include the Assistive Technology room, specialist software and computer hardware - including laptops for loan. Find out more at <https://www.bath.ac.uk/professional-services/assistive-technology/>

The IT shop in the Library stocks popular products such as academic software, DVDs, network cables and headsets. You can order many further IT products through the shop. Prices are often lower than in high street shops.

The Audio-Visual Unit also provides a range of equipment and facilities that can be used in support of learning. Find out more at <https://www.bath.ac.uk/professional-services/audio-visual/>

#### ***Further information***

Computing Services: [www.bath.ac.uk/professional-services/computing-services](http://www.bath.ac.uk/professional-services/computing-services)

Information for new users: <http://go.bath.ac.uk/it-new-students>

Information for users requiring learning assistance: [www.bath.ac.uk/professional-services/assistive-technology](http://www.bath.ac.uk/professional-services/assistive-technology)

IT shop: [www.bath.ac.uk/locations/it-shop](http://www.bath.ac.uk/locations/it-shop)

Computing Services Twitter feed: [@UniofBathIT](https://twitter.com/UniofBathIT)

### ***Recording of Lectures***

'Lecture capture' technology is widely used on campus to record lectures. Lecturers on your units will inform you if lectures will be recorded and the recordings made available for you to view again online. Where provided, lecture recordings are made available as an additional resource for personal study and revision purposes, and you can pause and rewind recordings when you re-watch them. The University cannot guarantee recordings (for example in the event of a technical fault) and recordings are not made available indefinitely.

As set out in Ordinance 22.4, students are not permitted to copy or redistribute lecture recordings, or to make their own recordings of lectures. However, the University may permit students with a disability to record lectures where this is a reasonable adjustment under the provisions of the Equality Act, in order to give these students equal access to educational opportunities. In such circumstances, the lecturer will be informed that the lecture is being recorded and the student may use the recording for their own personal study purposes only. Students with a disability should contact the Disability Service for further advice.

### ***Further information***

Ordinance 22: <https://www.bath.ac.uk/corporate-information/ordinances/>

Disability Service: [www.bath.ac.uk/groups/disability-service](http://www.bath.ac.uk/groups/disability-service)

### ***Student Representation***

#### ***Feeding Back Your Views to the University***

The University is committed to reviewing and continually improving its practice. The University aims to engage students as active partners in their education (Education Strategy 2016/21). Three key ways in which we seek feedback are through:

- a) Staff / Student Liaison Committees (SSLCs)
- b) Surveys and evaluations
- c) The Students' Union.

We also use focus groups, Departmental working parties, 'Lets' Talk' events, in-class opportunities and various kinds of feedback sessions.

You can get actively involved in determining how your educational and student experiences are organised by becoming active in the Students' Union, by letting your Department know that you are

interested in contributing, and by working in partnership with staff in your academic department and across other services at the University to co-creation solutions to improve the learning and teaching, and wider student experience.

On top of the informal mechanisms like talking with your Unit Convenor and your Director of Studies, every Department has a formal system so that all students can comment routinely, in confidence and anonymously on the learning experience they have received. Such comments help us to check that:

- you have a clear idea of the aims and requirements of each unit you study
- our teaching is effective and stimulating
- the advice and feedback we provide on your work is helpful
- our resources are suitable.

You will be asked to complete a short online unit evaluation for units you have studied. You will also be asked to complete surveys from time to time on your experience of the programme as a whole. Please complete each evaluation fully, thoughtfully, and candidly. In particular, please tell us not only your opinion but also the *reasons* behind your opinion.

When we receive responses to evaluations, we analyse them – especially the positive suggestions for change and concerns that are voiced. ‘We’ doesn’t just mean the University but students and their elected representatives too! Evaluation and survey data are always encouraged to be looked at in partnership between students and staff, so that solutions to the issues raised can be co-created together. Student feedback and the resulting actions are taken into consideration in annual monitoring of units and programmes. Survey results are discussed at committees where student representatives have the opportunity to input into any action plans developed in response to the issues raised.

Your feedback is important to both the University and the Students’ Union. ***Please keep telling us what is going well and what needs to get better.*** Try not to store issues up for a future SSLC meeting or the Unit Evaluations. Talking early to your Unit Convenor and Director of Studies will mean that any potential issues can be solved sooner thus enhancing your own experience on a particular Unit. We will communicate how feedback on units and programmes, and the wider student experience, has been acted upon.

### ***Student Representatives***

As a student of the University, you are automatically a member of the Students’ Union (although you have a right to opt out - see section below on **Students’ Union membership**). Officers of the Students’ Union represent students’ interests on University decision-making bodies. In addition, numerous elected student representatives play important roles on various Departmental, Faculty/School and University committees. All student representatives are elected through online elections facilitated by the Students’ Union.

There are many opportunities for elected student representatives. If you are elected to serve on Departmental, Faculty/School or University committees you will be expected to represent the views of your fellow students and provide feedback following meetings.

### ***Student Representation on Committees***

<b>Departmental level:</b>	<p>Each Department has at least one Departmental Staff / Student Liaison Committee (SSLC). These comprise of several elected student members, known as Academic Reps, and an equal or smaller number of staff members. Academic Reps are elected at the beginning of every academic year through online elections. Their role involves collecting the views of the students on their programme and attending SSLCs where they represent these views to their Department.</p> <p>The Students' Union reviews minutes from SSLCs and other committees, meetings, forums and student insight and uses this to present a summary report for the University highlighting issues, which need to be addressed.</p> <p>There is also provision for student membership of the Department Learning, Teaching and Quality Committee: normally one undergraduate and one postgraduate (taught) representative.</p> <p>Academic Reps attend Students' Union meetings. These take place regularly during the academic year in order to:</p> <ul style="list-style-type: none"><li>• keep Students' Union Officers and fellow Academic Reps informed of academic developments throughout the University</li><li>• discuss common problems and interests affecting Departments</li><li>• gather student opinions and views to be used by the University and the Students' Union</li><li>• update Academic Reps on key issues.</li></ul> <p>Do contact your student Academic Reps at any time to inform them of good practice or areas for enhancement in your units and programme. This is normally the person who represents your year or degree scheme on the Departmental SSLC.</p>
<b>Faculty/ School level:</b>	<p>Student representatives are also elected as Faculty Reps to sit on a number of Faculty/School level committees such as the Faculty/School Board of Studies and the Faculty/School Learning, Teaching and Quality Committee. Faculty Reps are also members of the Students' Union Academic Exec Committee.</p>

<b>University level:</b>	University committees with student representation include the Council/Senate/Students' Union, the University Learning, Teaching and Quality Committee, the Courses and Partnerships Approval Committee, and Senate.
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If you are interested in opportunities to represent student views, please contact the Students' Union: [academicreps@bath.ac.uk](mailto:academicreps@bath.ac.uk)

The Students' Union, with support from the University, runs a full training programme for student representatives, which includes initial training at the beginning of the academic year and ongoing support and development opportunities.

If you need to raise a concern, remember there are various routes open to you. You can discuss issues directly with a lecturer, your Personal Tutor, or the Director of Studies. Individual problems are often more readily resolved in this way. The Students' Union Advice and Support Service, described below, also provides students with information and confidential advice.

#### ***Further information***

Your SSLC: [See SSLC section on the UG Hub <https://moodle.bath.ac.uk/course/view.php?id=714>]

Students' Union Academic Representation including contact details for Academic Reps: [thesubath.com/academicreps](http://thesubath.com/academicreps)

Election of Academic Reps: [thesubath.com/elections](http://thesubath.com/elections)

Student Engagement: shape your University: <https://www.bath.ac.uk/campaigns/student-engagement-shape-your-university/>

Outline election procedures are included in QA48 Student Engagement with Quality Assurance and Enhancement, Annex A: Staff/Student Liaison Committees:

<https://www.bath.ac.uk/publications/qa48-student-engagement-with-quality-assurance-and-enhancement/>

#### ***Students' Union Membership***

All students registered with the University are automatically given membership of the Students' Union; however, you have the right not to be a member. For further information on opting out of this membership, please go to the Code of Practice for the Students' Union: [www.bath.ac.uk/university-secretary/guidance-policies/codeofpracticebusu.html](http://www.bath.ac.uk/university-secretary/guidance-policies/codeofpracticebusu.html)

#### ***Student Support***

Most students find there are occasions when it can help to talk to someone about a personal problem or issue. In many cases your Personal Tutor, Director of Studies, or a Wellbeing Adviser (see the

Wellbeing Service section below) will be able to help. However, sometimes more specialist help is needed. The University has a range of professional support services that you can approach directly. Your two main contact points are Student Services at the Roper Centre in 4 West and the Advice and Support Service in the Students' Union.

### **Student Services**

Student Services can provide advice and support on a range of issues including:

- counselling and mental health
- disability issues
- money and funding
- wellbeing and welfare.



You can make an individual appointment or just pop in to our daily drop-in sessions.

Student Services can also provide letters confirming student status for a variety of purposes, which can be requested by logging on to SAMIS: [www.bath.ac.uk/services/register-as-a-student-of-the-university-and-update-your-details](http://www.bath.ac.uk/services/register-as-a-student-of-the-university-and-update-your-details)

The Roper Student Services Centre in 4 West is open from 9.30am to 4.30pm throughout the year (tel: 01225 383838). Services are also available from the Virgil Building in Bath city centre.

For the full range of Student Services, see: <http://go.bath.ac.uk/student-services> or email: [studentservices@bath.ac.uk](mailto:studentservices@bath.ac.uk)

### ***The Students' Union Advice and Support Service***

The Students' Union Advice and Support Service provides information and advice for students on a range of topics affecting their education and wellbeing. This includes academic issues such as Individual Mitigating Circumstances (see the section in this Handbook on **Assessment**), changing course or assessment offences. They also provide Housing Advice on topics such as contract checks, landlord issues and council tax.

In addition, The SU Advice & Support team is one of the four departments at University of Bath that students can report Harassment, Discrimination or Bullying incidents to as part of the [#NeverOK Report & Support](#) campaign.

The Students' Union Advice and Support Service is open Monday to Friday 9.00am to 5.00pm in term time (from 10.00am on Fridays) and 10.00am to 4.00pm during vacations (tel: 01225 386906, email: [suadvice@bath.ac.uk](mailto:suadvice@bath.ac.uk))

The Advice and Support Service also supports the SU Diversity and Support groups – details of which can be found at: [thesubath.com/diversity-support](http://thesubath.com/diversity-support)

For the full range of services see: [thesubath.com/advice](http://thesubath.com/advice)

#### ***Further information***

A guide to the wide variety of support and information available to students can be found at: [www.bath.ac.uk/students](http://www.bath.ac.uk/students) and the Students' Union website: [thesubath.com](http://thesubath.com)

#### **Wellbeing Service**

The University's professionally qualified Wellbeing Advisers provide a welfare and wellbeing service to all our students. You can talk to a Wellbeing Adviser about anything and we are also available evenings and weekends.

We hold daily drop-in sessions on campus, including weekends and University vacations. Drop-in sessions are also held at the Virgil Building in Bath city centre and we run activities over Christmas and Easter for students who remain in Bath.

#### ***Further information***

<http://go.bath.ac.uk/wellbeing-service>

#### **Advice for International Students**

The Student Immigration Service provides immigration advice and support for all international students, including a Tier 4 extension service if you need to extend your visa. The Service offers workshops, a daily drop-in service, advice via email, phone and web-based platforms, or individual appointments can be made through the Helpdesk in The Roper Student Services Centre, 4 West.

#### ***Further information***

[www.bath.ac.uk/topics/visas](http://www.bath.ac.uk/topics/visas)

Student Services organise University-wide induction and welcome events in September. Events are also organised for incoming exchange students at the start of each semester.

#### ***Further information***

[www.bath.ac.uk/campaigns/studying-at-bath-as-an-erasmus-exchange-or-visiting-student](http://www.bath.ac.uk/campaigns/studying-at-bath-as-an-erasmus-exchange-or-visiting-student)

For students who join outside of the standard semester dates, induction and welcome events are organised by the relevant Department.

#### ***Dealing with a Problem Involving the University***

We want to ensure that, if you have a problem concerning the University, it is resolved as quickly as possible. As described above, there are student representatives on all formal decision-making committees – at Departmental, Faculty/School and University level. Student representatives help to anticipate potential problems and, when problems occur, to raise them so that they can be dealt with

promptly. As a result we can often resolve problems *before* they get to the stage where a formal complaint might be necessary.

The Students' Union offers advice for students on a range of issues through its Advice and Support Service. Its advice is independent of the University. See the section above on **Student Support**.

### ***Complaints***

If you do need to make a complaint, there are procedures in place to deal with it, outlined in the University's Student Complaints Procedure (see below).

These procedures are designed to ensure that your complaint will be dealt with in good faith and that you will not be penalised for complaining. When we receive a complaint, we will first seek to deal with it through informal discussion. If this fails to resolve the issue at hand, you can raise the complaint formally.

There are separate procedures for requesting a review of progression or award classification decisions. See the section in this Handbook on **Procedures for Academic Appeals**.

#### ***Further information***

Student Complaints: [www.bath.ac.uk/guides/student-complaints-procedure](http://www.bath.ac.uk/guides/student-complaints-procedure)

### ***Bullying, Harassment and Victimisation***

We believe that all our students and employees are entitled to be treated with dignity and respect and to be free from discrimination, victimisation, bullying, or any form of harassment. This is set out in the University's policy, Dignity and Respect for Students and Staff of the University of Bath: Policy and Procedure for Dealing with Complaints (below).

This policy and procedure applies to all staff, students and third parties (e.g. contractors to the University). University of Bath launched an online Report and Support tool, where all staff, students, and visitors can report discrimination, misconduct, harassment or assault by using this tool. You can report anonymously or get support from an adviser.

#### ***Further information***

Dignity and Respect Policy:

[www.bath.ac.uk/equalities/policiesandpractices/dignityandrespectpolicy.pdf](http://www.bath.ac.uk/equalities/policiesandpractices/dignityandrespectpolicy.pdf)

Report and Support tool:

<https://www.bath.ac.uk/campaigns/report-and-support/>

## **Advice for Students with Disabilities, Long-Term Illness, and Specific Learning Difficulties**

If you have a disability and/or specific learning difficulty (such as dyslexia), we strongly advise you to speak to the Disability Service team, your Personal Tutor or Director of Studies as soon as possible and preferably before your programme begins. Referral to the Disability Service will enable us to assess your needs and make arrangements to support you. It is best not to assume that any disabilities disclosed on your UCAS form will automatically be communicated to the department and Disability Service, make sure you double check that the correct support is in place.

Any personal information you give when disclosing your disability will be treated in confidence and made available *only* to relevant members of staff and only *with your permission*. If you don't disclose your disability it may be difficult for the University to provide suitable support to help you during your studies. Disclosure will not disadvantage you in any way.

The Disability Service provides advice, guidance, information and support for a range of needs including:

- Autism Spectrum Disorders/Asperger's Syndrome
- dyslexia and other specific learning difficulties
- mental health
- mobility impairments
- sensory impairments
- health conditions such as epilepsy, HIV, diabetes or chronic fatigue.

A screening process is available if you think you may have a specific learning difficulty/dyslexia.

Disability Advisers are also responsible for making applications for alternative arrangements for exams and assessments. Therefore, if you think that, because of a disability, you need alternative exam arrangements (such as extra time or the use of a computer) please discuss this with a Disability Adviser without delay.

### ***Further information***

<https://www.bath.ac.uk/professional-services/disability-service/>

## ***Pregnancy and Maternity***

The University is committed to being as flexible as possible in supporting students who become pregnant, decide to terminate a pregnancy or have a very young child. You are not under any obligation to inform the University of these circumstances, but doing so will enable us to put in place arrangements that will assist you in undertaking your programme of study.

You can seek advice, guidance and support via your Director of Studies, Personal Tutor and the University's Student Services.

***Further information***

[www.bath.ac.uk/guides/getting-advice-if-you-are-pregnant-while-studying-or-have-a-young-child](http://www.bath.ac.uk/guides/getting-advice-if-you-are-pregnant-while-studying-or-have-a-young-child)

***Care Leavers, Estranged Students, Refugees and Young Adult Carers***

The University is committed to supporting students from a wide range of backgrounds and circumstances including those who are care leavers, from a Foyer or are estranged from their family. We are aware of the challenges students may face when starting university and we want you to get the best out of your programme and university experience. We are able to offer you advice and guidance about settling in, academic studies, funding, accommodation, wellbeing and careers. The service we provide is confidential and entirely optional in relation to the level of support you feel that you may need.

We also offer eligible undergraduate students a non-repayable bursary of £1,000 per academic year plus £1,000 to help with start-up costs and a further £1,000 on graduation – a maximum of £7,000 over a 5-year programme including placement.

***Further information***

[www.bath.ac.uk/guides/additional-support-and-funding-for-care-leavers-foyer-residents-and-estranged-students/](http://www.bath.ac.uk/guides/additional-support-and-funding-for-care-leavers-foyer-residents-and-estranged-students/)

***Equality, Diversity and Inclusion***

The University of Bath is fully committed to fostering an inclusive and supportive working and learning environment, where difference is celebrated and seen as a strength and where all members of the University community (including students, staff, visitors and third parties) have mutual respect for each other. Instances of bullying, harassment and discrimination hinder the development of such an environment and negatively impact on the individual's self-worth and wellbeing, as well as on our wider community. At University of Bath, we value, promote and celebrate inclusion, challenging discrimination and putting equality, diversity and belonging at the heart of everything we do.

***Further information***

There is a range of information and resources available at <https://www.bath.ac.uk/professional-services/equality-diversity-and-inclusion/> or email: [equalsdiv@bath.ac.uk](mailto:equalsdiv@bath.ac.uk)

***Protected Groups***

There are nine protected characteristics identified in the Equality Act 2010:

<https://www.bath.ac.uk/guides/protected-groups/>

## Resources

Equality and Diversity Policies, Practices and resources can be found on this page:

<https://www.bath.ac.uk/corporate-information/equality-and-diversity-policies-practices-and-resources/>

## ***Careers Service***

The University Careers Service can support you through the career planning process, whatever your career aspirations. In addition to providing support with developing your employability, and guidance on how to make informed career decisions, members of the Careers team will provide help with perfecting your CV, practising aptitude tests, and improving your interview skills. Being in regular contact with several hundred major employers, the Careers Service is also a fantastic source for internship and graduate job vacancies for Bath students, as well as the organiser of several major careers fairs each year.

### ***Further information***

The Careers Service is open throughout the year, including the vacations.

Check the web site for opening times: [www.bath.ac.uk/students/careers](http://www.bath.ac.uk/students/careers)

The web site includes the *Myfuture* vacancies portal.

Contact [careers@bath.ac.uk](mailto:careers@bath.ac.uk) or 01225 386009 or follow the Careers Service on Twitter @CareersatBath or Facebook (search for BathUniCareers).

# Assessment

## **Feedback to Students on Assessment**

During your programme, you will receive feedback on assessed work. Feedback on assessments may take different forms, depending on your subject and the type of assessment. You will be informed of the timing and nature of the feedback you will receive on each assessment, including whether the piece of work itself will be returned to you. For formal written examinations, you may receive general feedback relevant to all who sat the exam rather than individual feedback. You can discuss feedback you receive on assessments alongside your performance and progress in your studies at meetings with your Personal Tutor.

The Department's Feedback Policy has been approved by the Faculty of Science Learning, Teaching and Quality Committee and is available on the *Chemistry Undergraduate Information Hub* on Moodle.

## **Academic Integrity: Referencing and Plagiarism**

Plagiarism is the use of any published or unpublished work without proper acknowledgement in your references. Plagiarism occurs when a student 'borrows' or copies information, data, or results from an unacknowledged source, without quotation marks or any indication that the presenter is not the original author or researcher.

Another form of plagiarism (and hence cheating) is auto-plagiarism or self-plagiarism. This occurs when a student submits work (whether a whole piece or part of a piece) without acknowledging that they have used this material for a previous assessment.

If you use someone else's work – say, by summarising it or quoting from it – you must reference the original author. This applies to all types of material: not only text, but also diagrams, maps, tables, charts, and so on. Be sure to use quotation marks when quoting from any source (whether original or secondary). Fully reference not only quotations, but also paraphrases and summaries. Such references should then be included in a bibliography or reference list at the end of the piece of work. Note that the need for referencing also applies to web-based material; appropriate references according to the type of work or image should always be given.

There are several acceptable styles for referencing material, within two general systems: Name/date (e.g. Harvard) and Numeric. **Ask your Director of Studies or Personal Tutor for further information and advice on the referencing style used on your programme.**

Guidance on referencing and plagiarism is available through skills training run by the University and the Students' Union, as well as online resources. Information guides and style sheets are available from the Library, and your Subject Librarian will be able to help with any questions.

### **Further information**

For a range of skills and development opportunities see: <http://go.bath.ac.uk/skills>

Library referencing resources, including style sheets: [www.bath.ac.uk/library/infoskills/referencing-plagiarism](http://www.bath.ac.uk/library/infoskills/referencing-plagiarism)

Students' Union Skills Training: [thesubath.com/skills-training](http://thesubath.com/skills-training)

### ***Academic Integrity: Training and Test (AITT)***

As a student registered on a University of Bath award, you are required to undertake the academic integrity training and pass the associated test.

The academic integrity training aims to provide all students with a basic knowledge and understanding of good academic practice. This includes an understanding of plagiarism and other assessment offences, and skills necessary to reference your work appropriately.

The training and test are accessed from Moodle by clicking on the link entitled '**Academic Integrity Initiative'**: <http://moodle.bath.ac.uk>

If you have any access problems, then please contact the year one DoS Dr Claire McMullin in the first instance.

When you have completed the training tutorial and are confident that you have understood it, you should undertake the test.

To pass the test you will need to achieve a mark of 85%. You can take the test as many times as necessary until you pass.

If you do not pass the test, you will need to re-visit the training and/or look at the other guidance available to you or as required by your Director of Studies, and then take the test again.

**You will not be able to progress beyond the next progression point in your studies, irrespective of your programme marks, until you pass this test.** Ultimately this means that, if you have not passed the test, you will not be able to receive your award. Your Director of Studies will be able to confirm when the next progression point occurs for your stage of your programme.

### ***Further information***

Academic and information skills:

[www.bath.ac.uk/library/infoskills](http://www.bath.ac.uk/library/infoskills)

[www.bath.ac.uk/professional-services/academic-skills-programme-asp](http://www.bath.ac.uk/professional-services/academic-skills-programme-asp)

Regulation 3.7: [www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students)

### ***Plagiarism Detection and Personal Data***

When you hand in a piece of assessed coursework, you will be expected to make a declaration that the work is your own and, where you have re-used your own work and/or used other sources of information, that you have referenced the material appropriately.

The University uses a plagiarism detection service. This service checks electronic, text-based submissions against a large database of material from other sources and, for each submission, produces an 'originality report'. It makes no judgement on the intention behind the inclusion of unoriginal work; it simply highlights its presence and links to the original source.

This service complies with the European General Data Protection Regulation (Regulation (EU) 2016/679) (GDPR). When you register with the University, you give it permission to process your personal data for a variety of legitimate purposes. This includes allowing the University to disclose such data to third parties for purposes relating to your studies. The University, at its sole discretion, may submit the work of any student to a plagiarism detection service (in accordance with Regulation 15.3e – see below) and may make, or authorise third parties to make, copies of any such work for the purposes of:

- i) assessment of the work
- ii) comparison with databases of earlier work or previously available works to confirm the work is original
- iii) addition to databases of works used to ensure that future works submitted at this institution and others do not contain content from the work submitted.

The University will not make any more copies of your work than are necessary, and will only retain these for so long as remains necessary, for these purposes.

Please note that, if at any time the University submits any of your work to a plagiarism detection service, the service will be provided with, and will retain, certain personal data relating to you – for example, your name, email address, programme details and the work submitted. Such data may be transferred by a plagiarism detection service to countries worldwide (some of which may not be governed by EU data legislation) in order for the work to be checked and an originality report generated in accordance with the proper workings of the plagiarism detection service. Personal data is retained indefinitely by the plagiarism detection service upon submission of work. You may ask for your personal data to be removed by contacting the University's Data Protection Officer.

#### ***Further information***

The University's procedures on Examination and Assessment Offences (QA53) are described at:  
[www.bath.ac.uk/quality/documents/QA53.pdf](http://www.bath.ac.uk/quality/documents/QA53.pdf)

Regulation 15, Assessment of undergraduate and taught postgraduate programmes:  
[www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students)

University's Data Protection Officer: [dataprotection-queries@lists.bath.ac.uk](mailto:dataprotection-queries@lists.bath.ac.uk)

#### ***Academic Integrity: Penalties***

Any student who is found to have used unfair means in an examination or assessment procedure will be penalised. 'Unfair means' here include:

- cheating - for example, unauthorised use of notes or course material in an examination
- fabrication - for example, reporting on experiments that were never performed
- falsification - for example, misrepresentation of the results of experimentation
- plagiarism, including self-plagiarism (see above)
- unfair collaboration or collusion - representation of work produced in collaboration with another person or persons as the work of a single candidate.

The University's Quality Assurance Code of Practice, QA53 Examination and Assessment Offences, sets out the consequences of committing an offence and the penalties that might be applied.

Penalties for unfair practice will be determined by the Department or by the Faculty/School Board of Studies in line with the procedures set out in QA53. They may include failure of the assessment unit or part of a degree, with no provision for reassessment or retrieval of that failure. Proven cases of plagiarism or cheating can also lead to an Inquiry Hearing or disciplinary proceedings. Claims of inadvertence or ignorance will not be accepted as a basis for mitigation of a penalty.

If you are accused of an offence, the Students' Union's welfare services are available to support you. You have the right to appeal against the outcome of the investigation.

#### ***Further information***

Examination and assessment offences: [www.bath.ac.uk/quality/documents/QA53.pdf](http://www.bath.ac.uk/quality/documents/QA53.pdf)

Appealing a decision about an assessment offence:

<https://www.bath.ac.uk/guides/appeal-against-a-decision-about-an-assessment-offence/>

Students' Union advice and support: [thesubath.com/advice](http://thesubath.com/advice)

#### ***Word Counts***

Written coursework tasks will often have a word range or limit. This is in order to give an indication of the depth and detail of work required, and to ensure that students' submitted work is comparable. You may be required to declare the word count for your work when submitting it for assessment.

If you do not observe the given word count or limit when it is issued for a coursework element, (e.g. if you exceed the word limit) then a penalty may be applied. Any relevant penalty should be stated in writing when the assignment task is distributed. You should take note of what is included when calculating the total word count (e.g. whether or not contents pages, appendices, footnotes, bibliographies and other elements that are not part of the main text are included).

You should check with your Director of Studies if you have questions about word counts and penalties.

## ***Late Submission of Coursework***

You will be expected to hand in all assessed coursework and dissertations/projects by a specified date and time. This is to ensure fairness to all students.

If there are valid circumstances preventing you from meeting a deadline, your Director of Studies may grant you an extension to the specified submission date. Forms to request an extension are available from your Department. You will need to provide a description of the circumstances which you feel support your request. Your Director of Studies may ask you to produce supporting evidence.

Please note that:

- if you submit a piece of work after the submission date, and no extension has been granted, the maximum mark possible will be the pass mark
- if you submit work more than five working days after the submission date, you will normally receive a mark of 0 (zero), unless you have been granted an extension.

It is not usually possible to mark coursework anonymously if it is submitted after the deadline.

It is important that you speak to your Director of Studies as soon as possible if you become concerned about your submission deadlines.

See also the section in this Handbook on **Submission deadlines**.

## ***Individual Mitigating Circumstances***

Individual Mitigating Circumstances (IMCs) are the conditions which temporarily prevent you from undertaking assessment or significantly impair your performance in assessment. As such, the measure of their severity is not about impact on you, but the impact on your affected assessment.

Full information and guidance on Individual Mitigating Circumstances and Assessment (including definitions of IMCs, in the document “What are Individual Mitigating Circumstances?”) is available at: [www.bath.ac.uk/registry/imc/imc-students.html](http://www.bath.ac.uk/registry/imc/imc-students.html)

It is strongly advised that you become familiar with the available guidance so that you understand the process and timescales should such circumstances arise.

You should make yourself familiar with these definitions, in addition to any IMC guidance offered by your Department, and support and guidance offered through the Disability Service ([www.bath.ac.uk/groups/disability-service](http://www.bath.ac.uk/groups/disability-service)) or the Students’ Union Advice and Support Centre ([thesubath.com/advice](http://thesubath.com/advice)).

Your Department/School will be able to advise you on how to submit an IMC claim, and your Director of Studies can help you to understand the potential implications of your IMC claim on your overall progress and/or award, in light of your academic achievement to date and the assessment regulations for your programme.

Your IMC claim must be submitted no more than three days after the affected assessment. The IMC form is available at: [www.bath.ac.uk/registry/imc/imc-students.html](http://www.bath.ac.uk/registry/imc/imc-students.html)

You will also need to submit evidence of how your circumstances affected the relevant assessment(s), for example, a medical certificate in the case of illness or injury.

If you know of a potential IMC that may affect your assessment before you begin an examination period or before a submission date, it is important that you speak to the senior tutor (Dr Mary Mahon) as soon as possible. After speaking to the senior tutor, if you do intend to submit a formal IMC claim for the assessment(s) you feel were affected, you will still need to complete the form and follow procedures.

### **Assessment Processes**

Assessment and marking processes at the University are designed to ensure that assessment of your work is fair and consistent, and that academic standards are appropriate and comparable between the University and other higher education institutions. This is achieved in a number of ways.

**Marking:** Assessments you will complete during your programme are marked according to:

- *marking criteria (or assessment criteria)* - these are the knowledge, understanding and skills which it has been identified that students should demonstrate in the assessment and which are taken into account during marking. They are based on the learning outcomes being assessed
- *marking schemes* - these are detailed descriptions of how specific numbers of marks should be assigned against individual components of an answer within the assessment task
- *grade descriptors* - these are descriptions of the levels of achievement required in order to get a result within a given band of marks (e.g. 70% or more).

**Anonymous marking:** The University has adopted a principle of anonymous marking in order to protect students and staff from bias, and the perception of bias, in the marking process. It applies to all examinations and, where practical, other assessment. It is not possible to mark all coursework anonymously as in some types of assessment the student can be easily identified by the marker (e.g. presentations, group work, laboratory work) or it might not be practical, or in the student interest, to do so. You will be informed when your coursework is to be marked anonymously.

**Moderation:** Both the setting and the marking of assessments are independently checked through a process known as moderation to ensure that questions test the learning outcomes and are set at the right standard, and that marking is consistent and fair. Moderation is conducted by internal examiners and also by your External Examiner (see below).

## **Boards of Examiners:**

Assessment decision-making at the University is the responsibility of Boards of Examiners established at three levels: assessment outcomes go first to *Boards of Examiners for Units*, then *Boards of Examiners for Programmes*, then finally to *Boards of Studies*. Boards of Studies confirm decisions relating to student progression from one stage of the programme to the next and the final award. **The assessment marks you are given initially by markers are therefore provisional up until the point when they have been confirmed by the Board of Studies for your programme.** An official release date is set when your confirmed results will be made available to you via SAMIS (the University's student records system). An academic appeal can only be made in relation to a confirmed result (see the section in this Handbook on **Procedures for Academic Appeals**).

All marks for a unit are reviewed at a meeting of a Board of Examiners for Units which will verify that the assessment process has been conducted appropriately and that the marks are an accurate reflection of the standards achieved. On rare occasions a Board of Examiners may decide to recommend a change to the provisional marks assigned initially, based on evidence that there was a problem with the assessment (for instance, disruption during an examination, or an exam paper that was too easy or difficult) which means that the marks assigned initially do not accurately reflect the standards achieved by the candidates. This adjustment is known as scaling and under these circumstances the marks of all affected students will be changed.

## ***Examinations – Information and Guidance***

Rules and procedures for examinations are set out in the University's Regulation 15 and Rule 2. The dates of the University's formal assessment periods are found on the academic year charts: [www.bath.ac.uk/publications/academic-year-charts](http://www.bath.ac.uk/publications/academic-year-charts)

You will have access to your personal examination timetable via SAMIS approximately seven weeks before the assessment period begins.

If you have learning or support needs and think you may require alternative examination arrangements please seek advice from the Disability Service and inform your Director of Studies as early as possible.

### ***Further information***

[www.bath.ac.uk/student-records/examinations/examinations-information](http://www.bath.ac.uk/student-records/examinations/examinations-information)

Regulation 15: [www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students)

Rule 2: <https://www.bath.ac.uk/corporate-information/rule-2-conduct-of-examinations/>

Disability Service: [www.bath.ac.uk/groups/disability-service](http://www.bath.ac.uk/groups/disability-service)

## ***External Examiners***

An External Examiner is someone from another University or a professional organisation who is suitably qualified and experienced in the relevant field of study. At least one External Examiner is

appointed for each taught programme or group of programmes. The role of External Examiner is an important one in assuring that assessment processes are fair and academic standards are appropriate, and supporting the development of your programme. External Examiners review draft examination papers and samples of assessed work, and attend Boards of Examiners. They are members of relevant Boards of Examiners.

Once a year, the External Examiners will provide a written report on each taught programme. University staff, including the Head of Department and Director of Studies will look at these reports and a response will be made to the External Examiner's comments. Staff/Student Liaison Committees (SSLCS) also discuss External Examiner reports as part of annual monitoring activity.

You can read the latest External Examiner report for your programme, and the University's response to it. See: <https://www.bath.ac.uk/publications/external-examiner-annual-reports/>

The External Examiners for your programme are:

**Inorganic Chemistry** - Prof Eva Hevia, University of Strathclyde

**Physical Chemistry** – Prof Andrew Horn, University of Manchester

**Organic Chemistry** - Prof Tom Sheppard, University College London

All of our programmes are accredited by the Royal Society of Chemistry (RSC).

It is not appropriate for students to make direct contact with External Examiners. If you are dissatisfied with the process or outcome of an assessment, and are considering whether to raise this either informally or formally, the sections of this Handbook on **Procedures for Academic Appeals** and **Dealing with a problem involving the University: Complaints** give some more information about the University's procedures for student complaints and academic appeals. The section on **Student representation** sets out how students can engage with the quality management process through which the University considers and responds to External Examiners' comments and suggestions.

## ***Assessment Regulations***

The University's **New Framework for Assessment: Assessment Regulations: Phase 1 for first-degree programmes ('NFAAR-UG')** specifies the rules governing students' progression from one stage of their programme to the next as well as for the award of degrees. The rules cover all areas of assessment, including supplementary assessment and the extent to which failure may be condoned. If you began the first stage of your programme in or after the 2008/09 academic year, NFAAR-UG applies to you. (If you began before then, please ask your Director of Studies for guidance on assessment).

Your programme is covered by the NFAAR-UG, so your work will be assessed according to its rules.

If at any time you are in doubt about how NFAAR-UG provisions apply to your work, please consult your Director of Studies.

This section highlights areas of the University's assessment framework for the type of programme you are undertaking. It explains the regulations that govern your assessment and outlines how the University makes decisions concerning your progression through your programme and award. Complete information is available in the NFAAR-UG document.

### ***Important information***

This section may contain terms unfamiliar to you. In addition to the explanations we give below you can find full definitions at:

<https://www.bath.ac.uk/publications/nfaar-ug-and-appendices/attachments/nfaar-ug-appendix-02.pdf>

For full details of the NFAAR-UG, visit: <https://www.bath.ac.uk/corporate-information/new-framework-for-assessment/>

You can find a student introduction to the NFAAR-UG at:

<https://www.bath.ac.uk/publications/nfaar-ug-and-appendices/attachments/nfaar-ug-intro-faq.pdf>

For information relating to your programme in the current academic year, visit:

[www.bath.ac.uk/catalogues](http://www.bath.ac.uk/catalogues)

### **Your Programme and How You Are Assessed**

Within your programme of study, there are *compulsory units*, (i.e. those units in a programme which must be taken by every student registered on the programme), and *optional units* (i.e. those units you may choose from a range of options).

The **Programme Description: Structure of the programme** section in this Handbook shows the structure of your programme. In the table, compulsory and optional units are labelled 'C' and 'O' respectively.

Please note that you can also access this information via links in your programme's description in the Programme and Unit Catalogues available at: <http://www.bath.ac.uk/catalogues/2019-2020/index.html>

At the end of the table, there are links to the relevant appendices of the NFAAR-UG which state exactly how the assessment rules operate for each stage of your programme.

There are some units that you must pass in order to progress to the next stage of your programme and to achieve the normal award for the programme at the end. Such units are called *Designated Essential Units (DEUs)*. Failure in a DEU – even marginal failure – will prevent you from progressing (or completing) your programme. For the Chemistry programmes, the stand-alone practical units in Years 1 and 2 are DEUs.

Programmes are divided into a number of *parts* and *stages*. For full-time students, stages usually correspond to the year of study (so, for example, most first-year students will be in Stage 1 of their programmes).

Within each stage of a programme, the contribution of each unit's assessment to the calculation of the *Overall Stage Average (OSA)* is normally directly proportional to the credit-values of the unit concerned. Placement units form part of a stage and have a credit weighting. Some placement units carry marks and some are just pass/fail. Only enhanced placement units contribute to the *Overall Programme Average (OPA)* however.

The normal pass mark for a unit is 40%. In some units, you might need to achieve a threshold mark in one or more component assessments in order to pass the unit overall.

The rules differ slightly between 'Coexistent Master Programmes' (which lead to a Master's degree but have an associated programme leading to a Bachelor's degree) and other programmes.

If you fail a stage, you will be required either to repeat the entire stage or to transfer to a *Designated Alternative Programme (DAP)*, if one exists, or if you fail very badly, to withdraw from the University. Where stage repeats are possible within the set limits, the repeating of any stage will be permitted once only.

At the end of each stage a Board of Examiners will decide whether you have passed the stage. The outcome will depend on both (1) your average mark in the stage and (2) the marks you obtain for each unit. Generally, if you pass each of your units (and, in a Coexistent Master programme, reach any OSA requirement set in addition), you will progress (or, after the final stage, be recommended for an award).

If you fail a large number of units (or, in a Coexistent Master programme do not reach any OSA requirement set in addition), you might fail the stage outright without any opportunity for supplementary assessment. (Further information on supplementary assessment is provided below.)

Particular rules apply to failure of units. They are as follows:

- if you fail any DEUs, you will have to undertake supplementary assessment – unless you have failed so many DEUs that you fail the stage outright
- if you fail any non-DEUs badly (i.e. achieve less than 35%), you will have to undertake supplementary assessment – unless you have failed so many units that you fail the stage outright
- if you fail only non-DEUs marginally (i.e. achieve 35%-39%), you might be able to progress without supplementary assessment. Whether you do progress will depend on the total credit value of the failed units and also on your OSA.

Your degree result is based on the calculation of your *Overall Programme Average (OPA)* based on the stages in Parts 2 and 3 of your programme. The contribution of each stage of the programme is set out in the table of assessment weightings and decision references in the **Programme Description: Structure of the programme** section in this Handbook. Follow the links provided in the table to see a

clear description of the assessment rules for each stage of your programme. Stages in Part 1 are not included in the OPA calculation.

### **Supplementary Assessment**

'Supplementary assessment' is the term normally used for an opportunity given to a student to retrieve failure before starting the next stage of a programme. It generally involves re-doing coursework or re-sitting an examination. Students undertaking supplementary assessments are likely to have to return to the University in the summer to re-sit examinations.

**Academic year dates, including the supplementary assessment period, can be found at:**  
<https://www.bath.ac.uk/publications/academic-year-charts>

Each unit's method of supplementary assessment is shown in the online Unit Catalogue.

In units where the original assessment is a written examination, supplementary assessment may sometimes take the form of reworking an examination paper, known as 'mandatory extra work', rather than re-sitting the examination. In such cases the pass mark is 70% and a mark below 60% is considered a bad fail.

If you pass all your supplementary assessments, you will be able to progress onto the next stage of your programme. It should be noted that it is your original mark which counts towards your degree, not the mark you achieve in your supplementary exam.

The outcomes of failing a supplementary assessment are as follows:

- 1) if you fail supplementary assessment in a DEU, you will fail the stage
- 2) if you fail supplementary assessment in a non-DEU badly, you will fail the stage
- 3) if you fail supplementary assessment in a non-DEU marginally, you might be able to progress; whether you may do so will depend on how many units you have failed (and in some cases also on your Overall Stage Average).

### **Exit Awards – CertHE and DiplHE**

If you leave your programme early you may be eligible for a generic exit award, either a Certificate of Higher Education (CertHE) or a Diploma of Higher Education (DiplHE).

### ***Procedures for Academic Appeals***

Students wishing to submit a request for an academic appeal should refer to Regulation 17 (Conduct of Student Academic Appeals and Reviews): [www.bath.ac.uk/publications/regulations-for-students](https://www.bath.ac.uk/publications/regulations-for-students)

You are also strongly advised to read the online guidance provided by the Academic Registry: [www.bath.ac.uk/guides/appealing-against-an-academic-decision/](https://www.bath.ac.uk/guides/appealing-against-an-academic-decision/)

Independent advice about academic appeals is offered by the Students' Union Advice and Support Centre: [www.thesubath.com/advice](https://thesubath.com/advice)

Regulation 17.16 outlines how you may appeal against formal Board of Studies decisions in respect of one or more of the following:

- i) the student's suitability to progress from one stage of the programme of study to the next
- ii) the student's suitability to remain on the programme of study
- iii) the marks/grades, degrees, certificates or diplomas, and the classifications/grades awarded to the student.

The regulation also sets out the grounds on which an appeal can be based (Regulation 17.16). Please note that:

- dissatisfaction with a mark or set of marks, or any other aspect of the properly exercised academic judgement of the examiners, will not of itself be acceptable as a valid ground for an academic appeal (Regulation 17.1)
- students who have concerns about assessment outcomes that have not yet been approved by a Board of Studies should seek advice in the first instance from their Director of Studies. This may include matters such as suspecting errors in the totalling or transcription of marks/grades, or wishing to seek clarification about the marking process (Regulation 17.2).

All academic appeals must be submitted within the timescales set out in Regulation 17. You must provide the required information and evidence, including a completed AA1 form. The form and further academic appeals guidance are available at:

[www.bath.ac.uk/guides/appealing-against-an-academic-decision/](http://www.bath.ac.uk/guides/appealing-against-an-academic-decision/)

Student Complaints are dealt with under separate procedures. For more information, see:  
[www.bath.ac.uk/guides/student-complaints-procedure](http://www.bath.ac.uk/guides/student-complaints-procedure)

If you are uncertain as to whether your concerns are a potential academic appeal or a student complaint, please refer to the guidance at: [www.bath.ac.uk/students/support/complaints](http://www.bath.ac.uk/students/support/complaints)

# General Information

## ***University Regulations for Students***

All registered students of the University are subject to the University's Regulations for Students. The Regulations contain rules and other important information about being a student at the University of Bath, including regulations governing the payment of fees due to the University, student discipline, fitness to study and those governing attendance, conduct and progress in studies. They also form part of the formal contract between you and the University. You will find references to the requirements of the Regulations for Students throughout this Handbook. You are advised to download a copy of the Regulations and read them carefully as they contain a lot of important information.

### ***Important information***

The full Regulations for Students can be found at:

[www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students)

## ***Registration Status***

Note that only registered students may use the University's facilities, such as email, Moodle and the Library. You will be asked to register online at the start of your programme of study and then to re-register at the start of every academic year thereafter until you have completed your programme. It is a requirement that you register when asked to do so. Tuition fees for each academic year are payable at registration in full or in instalments.

<https://www.bath.ac.uk/guides/registering-with-the-university/>

Regulation 1.1 explains the requirement to register. Regulations 2.4 and 2.10 explain the consequences of non-payment of tuition fees:

[www.bath.ac.uk/publications/regulations-for-students](http://www.bath.ac.uk/publications/regulations-for-students)

## ***Attendance Monitoring***

Guidance and requirements on attendance, including the University's Attendance Monitoring and Engagement Policy for Tier 4 students, are available at:

[www.bath.ac.uk/guides/attendance-monitoring-for-tier-4-students](http://www.bath.ac.uk/guides/attendance-monitoring-for-tier-4-students)

This page also sets out information on when and how to request an authorised absence.



### ***Change in Your Circumstances***

It is important to ensure that the University holds your correct, up-to-date, personal and academic details within SAMIS, the University's student records database. If you change your address – either your semester-time or home address – please update your details online at: <https://samis.bath.ac.uk>

If you change your name, you will need to provide valid proof of the change. Please speak to your Department or Faculty/School administration, or Student Services in the Roper Centre, for advice on how to do this.

If you are considering suspending your studies, transferring from one programme to another, or withdrawing from your programme, please discuss your situation with your Director of Studies. They will be able to advise you on an appropriate course of action.

It is a University Regulation (3.1) that you attend regularly. If circumstances are such that you are not able to do so, then please contact your Director of Studies to discuss your situation and agree an appropriate course of action.

Your Personal Tutor will also be able to provide support and guidance on matters relating to your programme.

**The financial implications of withdrawing from the University or suspending your studies can be significant.**

You will find general information at: [www.bath.ac.uk/students/finance/changes-to-your-study/withdrawing-or-suspending-from-your-course](http://www.bath.ac.uk/students/finance/changes-to-your-study/withdrawing-or-suspending-from-your-course)

The Student Money Advice Team in Student Services and the Student Finance Office will be able to advise you on the implications for fees in your situation and on how to suspend any student funding you are receiving.

**If you are an international student holding a Tier 4 visa, you should consult the advisers in the Student Immigration Service about the implications of suspending or withdrawing from your programme: [www.bath.ac.uk/topics/visas](http://www.bath.ac.uk/topics/visas)**

You will need to register any change of academic circumstance, including a change of optional units, with the University. Please speak to your Department or Faculty/School administration who will advise you on how to do this.

### ***Disclosure and Barring Service (DBS) Checks***

You may be required to undergo a DBS check in order to undertake practice-based (UAS) units in your final year (semester 1). If the results of this check prove to be unsatisfactory then you may be unable to undertake the units and may be required to transfer to an alternative programme.

Overseas applicants and UK applicants who have lived abroad for a period of six months or more, within the last five years, will also be required to produce a criminal records check, or "certificate of good character" from those countries that they have lived in.

#### ***Further information***

[www.gov.uk/government/organisations/disclosure-and-barring-service](http://www.gov.uk/government/organisations/disclosure-and-barring-service)

#### ***Health and Safety***

The University's Health and Safety Policy Statement is available at:

<https://www.bath.ac.uk/corporate-information/health-and-safety-policy/>

The Policy Statement is also displayed throughout the campus. Staff within the University Health, Safety and Environment Service (Wessex House 3.12) provide professional advice on health and safety matters and monitor the health and safety performance of the University.

#### ***Further information***

Email: [uhse@bath.ac.uk](mailto:uhse@bath.ac.uk)

Current University guidance on fieldwork, work placements and overseas travel:

[www.bath.ac.uk/corporate-information/fieldwork-safety-standard](http://www.bath.ac.uk/corporate-information/fieldwork-safety-standard)

<https://www.bath.ac.uk/publications/placements-and-study-abroad-programmes-safety-standard/>

[www.bath.ac.uk/guides/overseas-travel-safety-guidance](http://www.bath.ac.uk/guides/overseas-travel-safety-guidance)

#### ***Department Safety***

The various laboratory classes and project work undertaken should always be preceded by a safety induction. This may take the form of viewing video and answering questions, or a more traditional talk by a member of staff. Individual safety assessments may be required before particular experiments in the undergraduate laboratories, and you should ensure these have been completed BEFORE starting the experiment.

You will be required to submit a signed 'FORM U' confirming that you have attended a safety induction.

**Any issues of concern** with respect to Health and Safety should be raised with the Faculty of Science Safety Coordinator, Dr. Judith Brown ([jb2144@bath.ac.uk](mailto:jb2144@bath.ac.uk)) and any concerns should be directed to Dr Judith Brown or Prof. Matthew Jones ([m.jones2@bath.ac.uk](mailto:m.jones2@bath.ac.uk))

For students on placement, both the University and the placement provider have a duty of care towards the student. The Department of Chemistry will prepare students for placement and ensure they are aware of relevant health and safety aspects; this is of a general nature and does not include the specific information needed for any particular job or workplace.

During the placement we expect students to be effective, safe and reliable individuals. However, during the placement period the student is under the control of the placement provider and therefore the statutory duty of care and consequent liabilities rest with the placement provider. The students' placement providers should treat them in the same manner as a permanent own employee with regards to their health, safety and welfare. It is therefore the University's expectation all placement providers will:

- Provide the student with an induction in the workplace health and safety arrangements, including fire precautions, specific hazards and health and safety precautions;
- Include the student in the risk assessment programme as it affects activities undertaken by them;
- Provide appropriate instruction and training in working practices and in the particular control measures identified in risk assessments;
- Have a system of recording and investigating accidents and incidents. The placement provider should notify the University of accidents and incidents involving our students.

The University is also required to check whether the student will be covered by any employer liability and public liability insurance policies whilst on placement. If the student will not be covered by such policies then the student should inform the placement tutor (Dr Jonathan Cox) immediately. If you have any questions about aspects of the health and safety arrangements for the placement please contact either the placement tutor or the University's Health, Safety and Environment Unit Tel 01225 384088, E-mail [UHSE@lists.bath.ac.uk](mailto:UHSE@lists.bath.ac.uk). For further information see <http://www.bath.ac.uk/hr/hrdocuments/staying-safe-well/placements/training-placementsstudents-safety.pdf>

### ***Data Protection***

The University's Data Protection Policy and Guidelines on Data Protection may be accessed via the data protection website: [www.bath.ac.uk/data-protection](http://www.bath.ac.uk/data-protection)

### **Research**

See this page for guidance notes for students and academics undertaking research [www.bath.ac.uk/internal/data-protection/academic-research.htm](http://www.bath.ac.uk/internal/data-protection/academic-research.htm)

## Appendix A – Structure of Programmes

### *Programmes in Chemistry*

#### *BSc (hons) Chemistry*

Programme Code:	USCH-AFB01
Programme Title:	BSc (hons) Chemistry
Award Type:	Bachelor of Science with Honours
Award Title:	BACHELOR OF SCIENCE IN CHEMISTRY
Mode of Attendance:	Full-time
State if coexistent M-level programme:	
State any designated alternative programme(s):	
Approving body and date of approval:	

#### *YEAR 1: BSc (Hons) Chemistry*

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes

1	1	Semester 1	CH10191	Chemistry of the cell	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
					CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		
1	1	Semester 1	CH10225	The chemistry of everyday things	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	MN10070	Business economics	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10214	Mathematics for chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	

1	1	Semester 2	CH10226	Introduction to environmental and sustainable chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	MN10248	Introduction to accounting	CH1004 Optional Units: Select a minimum of 0 and a maximum of	6	
					6 credits from this list:		

#### YEAR 2 : BSc (Hons) Chemistry

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes

2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20146	Symmetry and group theory	Compulsory Unit	3	
2	2	Semester 2	CH20238	Introduction to computational chemistry	Compulsory Unit	3	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

### YEAR 3 : BSc (Hons) Chemistry

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	3	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	3	All Year	CH30144	Dissertation	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

3	3	All Year	CH30159	University ambassadors scheme: science	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	3	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	3	Semester 1	CH30127	Topics in inorganic chemistry I	Compulsory Unit	3	
3	3	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	
3	3	Semester 1	CH30129	Topics in physical chemistry I	Compulsory Unit	3	
3	3	Semester 1	CH30050	The chemical literature	CH3017 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	6	
3	3	Semester 1	CH30204	Analytical chemistry in context	CH3025 Optional Units: Select 1 unit from this list:	6	

3	3	Semester 1	ED30005	Science education in practice	CH3025 Optional Units: Select 1 unit from this list:	6	
3	3	Semester 1	MN20072	Managing human resources	CH3025 Optional Units: Select 1 unit from this list:	6	
3	3	Semester 1	ZZ00001	Director of Studies approved unit	CH3025 Optional Units: Select 1 unit from this list:		
3	3	Semester 1	CH30203	Radiochemistry	CH3033 Optional Units: Select 1 unit from this list:	3	
3	3	Semester 1	CH30235	Organic chemistry of biomolecules	CH3033 Optional Units: Select 1 unit from this list:	3	

3	3	Semester 2	CH30063	Chemistry project	CH3014 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	3	Semester 2	CH30037	Synthesis of medicinal compounds	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	3	Semester 2	CH30039	Computational chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	3	Semester 2	CH30065	Biosynthesis & biotransformations	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	3	Semester 2	CH30068	Physical organic chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	3	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	3	Semester 2	CH30157	Chemistry of functional materials	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	3	Semester 2	CH30162	Advanced organometallic chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15	3	

					credits from this list:		
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30211	Chemistry beyond the molecule	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30212	Contemporary main group chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30220	Chemical thermodynamics in context	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30221	Sustainable chemistry in context	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30224	Physical chemistry of food science	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30227	Advanced spectroscopic techniques	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15	<b>3</b>	

						credits from this list:		
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30230	DNA in the modern world	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:		<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30231	Porous materials	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:		<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30236	Organic functional materials and devices	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:		<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	CH30237	X-ray & neutron techniques for chemists	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:		<b>3</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	ED30006	Issues in science education	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		<b>6</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	MN20073	Marketing	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		<b>6</b>	
<b>3</b>	<b>3</b>	<b>Semester 2</b>	XX30172	State of the planet	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		<b>6</b>	

3	3	Semester 2	ZZ00001	Director of Studies approved unit	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		
3	3	All Year	CH30241	Engaging the public in chemistry research	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

***BSc (hons) Chemistry with Study Year Abroad***

Programme Code:	USCH-AAB02
Programme Title:	BSc (hons) Chemistry with Study Year abroad
Award Type:	Bachelor of Science with Honours
Award Title:	BACHELOR OF SCIENCE IN CHEMISTRY
Mode of Attendance:	Study Year Abroad
State if coexistent M-level programme:	
State any designated alternative programme(s):	BSc (hons) Chemistry (USCH-AFB01)
Approving body and date of approval:	

***YEAR 1: BSc (Hons) Chemistry with Study Year Abroad***

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	

1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 1	CH10191	Chemistry of the cell	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	CH10225	The chemistry of everyday things	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	MN10070	Business economics	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10214	Mathematics for chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10226	Introduction to environmental and sustainable chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	

1	1	Semester 2	MN10248	Introduction to accounting	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
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**YEAR 2: BSc (Hons) Chemistry with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20146	Symmetry and group theory	Compulsory Unit	3	

2	2	Semester 2	CH20238	Introduction to computational chemistry	Compulsory Unit	3	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

**YEAR 3: BSc (Hons) Chemistry with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30058	Study year abroad (BSc hons and MSci)	Compulsory Unit	60	

**YEAR 4: BSc (Hons) Chemistry with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH30189	General chemistry	Compulsory Unit	3	

3	4	All Year	CH30144	Dissertation	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	All Year	CH30159	University ambassadors scheme: science	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	4	Semester 1	CH30127	Topics in inorganic chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30129	Topics in physical chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30050	The chemical literature	CH3017 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	6	
3	4	Semester 1	CH30204	Analytical chemistry in context	CH3025 Optional Units: Select 1 unit from this list:	6	
3	4	Semester 1	ED30005	Science education in practice	CH3025 Optional Units: Select 1 unit from this list:	6	
3	4	Semester 1	MN20072	Managing human resources	CH3025 Optional Units: Select 1 unit from this list:	6	
3	4	Semester 1	ZZ00001	Director of Studies approved unit	CH3025 Optional Units: Select 1 unit from this list:		
3	4	Semester 1	CH30203	Radiochemistry	CH3033 Optional Units: Select 1 unit from this list:	3	
3	4	Semester 1	CH30235	Organic chemistry of biomolecules	CH3033 Optional Units: Select 1 unit from this list:	3	

3	4	<b>Semester 2</b>	CH30063	Chemistry project	CH3014 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	4	<b>Semester 2</b>	CH30037	Synthesis of medicinal compounds	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30039	Computational chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30065	Biosynthesis & biotransformations	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30068	Physical organic chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15	3	
					credits from this list:		
3	4	<b>Semester 2</b>	CH30086	Inorganic chemistry in biological systems	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30157	Chemistry of functional materials	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	

3	4	Semester 2	CH30162	Advanced organometallic chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30211	Chemistry beyond the molecule	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30212	Contemporary main group chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30220	Chemical thermodynamics in context	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30221	Sustainable chemistry in context	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30224	Physical chemistry of food science	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
					minimum of 9 and a maximum of 15 credits from this list:		

3	4	Semester 2	CH30227	Advanced spectroscopic techniques	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30230	DNA in the modern world	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30231	Porous materials	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30236	Organic functional materials and devices	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	ED30006	Issues in science education	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
3	4	Semester 2	MN20073	Marketing	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
3	4	Semester 2	XX30172	State of the planet	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6	6	

					credits from this list:		
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		
3	4	All Year	CH30241	Engaging the public in chemistry research	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

***BSc (hons) Chemistry with Industrial Training***

<b>Programme Code:</b>	USCH-AKB02
<b>Programme Title:</b>	BSc (hons) Chemistry with Industrial Training
<b>Award Type:</b>	Bachelor of Science with Honours
<b>Award Title:</b>	BACHELOR OF SCIENCE IN CHEMISTRY
<b>Mode of Attendance:</b>	Thick Sandwich
<b>State if coexistent M-level programme:</b>	
<b>State any designated alternative programme(s):</b>	BSc (hons) Chemistry (USCH-AFB01)
<b>Approving body and date of approval:</b>	

**YEAR 1: BSc (Hons) Chemistry with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 1	CH10191	Chemistry of the cell	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	CH10225	The chemistry of everyday things	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	MN10070	Business economics	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6	6	

					credits from this list:		
1	1	Semester 2	CH10214	Mathematics for chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10226	Introduction to environmental and sustainable chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	MN10248	Introduction to accounting	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	

#### YEAR 2 : BSc (Hons) Chemistry with Industrial Training

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	

2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20146	Symmetry and group theory	Compulsory Unit	3	
2	2	Semester 2	CH20238	Introduction to computational chemistry	Compulsory Unit	3	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

#### YEAR 3 : BSc (Hons) Chemistry with Industrial Training

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30054	Industrial placement (BSc hon)	Compulsory Unit	60	

**YEAR 4 : BSc (Hons) Chemistry with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	4	All Year	CH30144	Dissertation	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	All Year	CH30159	University ambassadors scheme: science	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	4	Semester 1	CH30127	Topics in inorganic chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30129	Topics in physical chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30050	The chemical literature	CH3017 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	6	
3	4	Semester 1	CH30204	Analytical chemistry in context	CH3025 Optional Units: Select 1 unit from this list:	6	

3	4	Semester 1	ED30005	Science education in practice	CH3025 Optional Units: Select 1 unit from this list:	6	
3	4	Semester 1	MN20072	Managing human resources	CH3025 Optional Units: Select 1 unit from this list:	6	
3	4	Semester 1	ZZ00001	Director of Studies approved unit	CH3025 Optional Units: Select 1 unit from this list:		
3	4	Semester 1	CH30203	Radiochemistry	CH3033 Optional Units: Select 1 unit from this list:	3	
3	4	Semester 1	CH30235	Organic chemistry of biomolecules	CH3033 Optional Units: Select 1 unit from this list:	3	
3	4	Semester 2	CH30063	Chemistry project	CH3014 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	4	Semester 2	CH30037	Synthesis of medicinal compounds	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30039	Computational chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30065	Biosynthesis & biotransformations	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	Semester 2	CH30068	Physical organic chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	

3	4	<b>Semester 2</b>	CH30086	Inorganic chemistry in biological systems	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30157	Chemistry of functional materials	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30162	Advanced organometallic chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30211	Chemistry beyond the molecule	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30212	Contemporary main group chemistry	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30220	Chemical thermodynamics in context	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30221	Sustainable chemistry in context	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15	3	

						credits from this list:		
3	4	Semester 2	CH30224	Physical chemistry of food science	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3		
3	4	Semester 2	CH30227	Advanced spectroscopic techniques	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3		
3	4	Semester 2	CH30230	DNA in the modern world	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3		
3	4	Semester 2	CH30231	Porous materials	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3		
3	4	Semester 2	CH30236	Organic functional materials and devices	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3		
3	4	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3015 Optional Units: Select a minimum of 9 and a maximum of 15 credits from this list:	3		
3	4	Semester 2	ED30006	Issues in science education	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6		

3	4	Semester 2	MN20073	Marketing	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
3	4	Semester 2	XX30172	State of the planet	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3028 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:		
3	4	All Year	CH30241	Engaging the public in chemistry research	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

### ***MChem (hons) Chemistry***

<b>Programme Code:</b>	USCH-AFM02
<b>Programme Title:</b>	MChem (hons) Chemistry
<b>Award Type:</b>	Master of Chemistry with Honours
<b>Award Title:</b>	MASTER OF CHEMISTRY
<b>Mode of Attendance:</b>	Full-time
<b>State if coexistent M-level programme:</b>	
<b>State any designated alternative programme(s):</b>	BSc (hons) Chemistry (USCH-AFB01)
<b>Approving body and date of approval:</b>	

**YEAR 1 : MChem (Hons) Chemistry**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 1	CH10191	Chemistry of the cell	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	CH10225	The chemistry of everyday things	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	MN10070	Business economics	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6	6	

					credits from this list:		
1	1	Semester 2	CH10214	Mathematics for chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10226	Introduction to environmental and sustainable chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	MN10248	Introduction to accounting	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	

### YEAR 2 : MChem (Hons) Chemistry

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	

2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20146	Symmetry and group theory	Compulsory Unit	3	
2	2	Semester 2	CH20238	Introduction to computational chemistry	Compulsory Unit	3	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list	3	Yes

### YEAR 3: MChem (Hons) Chemistry

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30189	General chemistry	Compulsory Unit	3	

2	3	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
2	3	Semester 1	CH30050	The chemical literature	Compulsory Unit	6	
2	3	Semester 1	CH30127	Topics in inorganic chemistry I	Compulsory Unit	3	
2	3	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	
2	3	Semester 1	CH30129	Topics in physical chemistry I	Compulsory Unit	3	
2	3	Semester 1	CH30204	Analytical chemistry in context	Compulsory Unit	6	
2	3	Semester 1	CH30203	Radiochemistry	CH3033 Optional Units: Select 1 unit from this list:	3	
2	3	Semester 1	CH30235	Organic chemistry of biomolecules	CH3033 Optional Units: Select 1 unit from this list:	3	
2	3	Semester 2	CH30063	Chemistry project	Compulsory Unit	12	
2	3	Semester 2	CH30037	Synthesis of medicinal compounds	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30039	Computational chemistry	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30065	Biosynthesis & biotransformations	CH3001 Optional Units: Select 15	3	
					credits from this list:		
2	3	Semester 2	CH30068	Physical organic chemistry	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3001 Optional Units: Select 15 credits from this list:	3	

2	3	Semester 2	CH30157	Chemistry of functional materials	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30162	Advanced organometallic chemistry	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30211	Chemistry beyond the molecule	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30212	Contemporary main group chemistry	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30220	Chemical thermodynamics in context	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30221	Sustainable chemistry in context	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30224	Physical chemistry of food science	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30227	Advanced spectroscopic techniques	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30230	DNA in the modern world	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30231	Porous materials	CH3001 Optional Units: Select 15 credits from this list:	3	

2	3	Semester 2	CH30236	Organic functional materials and devices	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3001 Optional Units: Select 15 credits from this list:	3	
2	3	Semester 2	ZZ00001	Director of Studies approved unit	CH3001 Optional Units: Select 15 credits from this list:		

**YEAR 4 : MChem (Hons) Chemistry**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40167	Advanced chemistry research	Compulsory Unit	30	
3	4	Semester 1	CH40131	Advanced structural and theoretical methods	Compulsory Unit	6	
3	4	Semester 1	CH40205	Topics in inorganic chemistry II	Optional units: Select 3 units from the list	3	
3	4	Semester 1	CH40206	Topics in organic chemistry II	Optional units: Select 3 units from the list	3	
3	4	Semester 1	CH40207	Topics in physical chemistry II	Optional units: Select 3 units from the list	3	
3	4	Semester 1	CH40208	Topics in computational chemistry	Optional units: Select 3 units from the list	3	
3	4	Semester 1	CH40242	Preparation for chemistry research	Compulsory Unit	15	

***MChem (hons) Chemistry with Study Year Abroad***

<b>Programme Code:</b>	USCH-AAM03
<b>Programme Title:</b>	MChem (hons) Chemistry with Study Year Abroad
<b>Award Type:</b>	Master of Chemistry with Honours
<b>Award Title:</b>	MASTER OF CHEMISTRY
<b>Mode of Attendance:</b>	Study Year Abroad
<b>State if coexistent M-level programme:</b>	
<b>State any designated alternative programme(s):</b>	MChem (hons) Chemistry (USCH-AFM02), BSc (hons) Chemistry with Study Year abroad (USCH-AAB02)
<b>Approving body and date of approval:</b>	

***YEAR 1 : MChem (Hons) Chemistry with Study Year Abroad***

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes

1	1	Semester 1	CH10191	Chemistry of the cell	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	CH10225	The chemistry of everyday things	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6	6	
					credits from this list:		
1	1	Semester 1	MN10070	Business economics	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10214	Mathematics for chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10226	Introduction to environmental and sustainable chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	MN10248	Introduction to accounting	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	

**YEAR 2 : MChem (Hons) Chemistry with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20146	Symmetry and group theory	Compulsory Unit	3	
2	2	Semester 2	CH20238	Introduction to computational chemistry	Compulsory Unit	3	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
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**YEAR 3 : MChem (Hons) Chemistry with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30060	Study year abroad (MChem)	Compulsory Unit	48	
2	3	All Year	CH30217	Distance learning in chemistry	Compulsory Unit	12	

**YEAR 4 : MChem (Hons) Chemistry with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40165	Chemistry research 1	Compulsory Unit	24	
3	4	Semester 1	CH40131	Advanced structural and theoretical methods	Compulsory Unit	6	
3	4	Semester 1	CH40205	Topics in inorganic chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40206	Topics in organic chemistry II	Compulsory Unit	3	

3	4	Semester 1	CH40207	Topics in physical chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40208	Topics in computational chemistry	Compulsory Unit	3	
3	4	Semester 2	CH40037	Synthesis of medicinal compounds	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40039	Computational chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40068	Physical organic chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40086	Inorganic chemistry in biological systems	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40158	Chemistry of functional materials	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40162	Advanced organometallic chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40211	Chemistry beyond the molecule	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40212	Contemporary main group chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40219	Organic and inorganic aspects of homogeneous catalysis	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40220	Chemical thermodynamics in context	CH4001 Optional Units: Select 18 credits from this list:	3	

3	4	Semester 2	CH40221	Sustainable chemistry in context	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40227	Advanced spectroscopic techniques	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40230	DNA in the modern world	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40231	Porous materials	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40236	Organic functional materials and devices	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40237	X-ray & neutron techniques for chemists	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH4001 Optional Units: Select 18 credits from this list:		

#### ***MChem (hons) Chemistry with Industrial Training***

Programme Code:	USCH-AKM02
Programme Title:	MChem (hons) Chemistry with Industrial Training
Award Type:	Master of Chemistry with Honours
Award Title:	MASTER OF CHEMISTRY
Mode of Attendance:	Thick Sandwich
State if coexistent M-level programme:	
State any designated alternative programme(s):	MChem (hons) Chemistry (USCH-AFM02), BSc (hons) Chemistry with Industrial Training (USCH-AKB02)

Approving body and date of approval:	
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**YEAR 1 : MChem (Hons) Chemistry with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 1	CH10191	Chemistry of the cell	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 1	CH10225	The chemistry of everyday things	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6	6	
					credits from this list:		
1	1	Semester 1	MN10070	Business economics	CH1003 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10214	Mathematics for chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	CH10226	Introduction to environmental and sustainable chemistry	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	
1	1	Semester 2	MN10248	Introduction to accounting	CH1004 Optional Units: Select a minimum of 0 and a maximum of 6 credits from this list:	6	

#### YEAR 2 : MChem (Hons) Chemistry with Industrial Training

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	

2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20146	Symmetry and group theory	Compulsory Unit	3	
2	2	Semester 2	CH20238	Introduction to computational chemistry	Compulsory Unit	3	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

**YEAR 3: MChem (Hons) Chemistry with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30055	Industrial studies	Compulsory Unit	48	

2	3	All Year	CH30217	Distance learning in chemistry	Compulsory Unit	12	
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**YEAR 4 : MChem (Hons) Chemistry with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40165	Chemistry research 1	Compulsory Unit	24	
3	4	Semester 1	CH40131	Advanced structural and theoretical methods	Compulsory Unit	6	
3	4	Semester 1	CH40205	Topics in inorganic chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40206	Topics in organic chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40207	Topics in physical chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40208	Topics in computational chemistry	Compulsory Unit	3	
3	4	Semester 2	CH40037	Synthesis of medicinal compounds	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40039	Computational chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40068	Physical organic chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40086	Inorganic chemistry in biological systems	CH4001 Optional Units: Select 18 credits from this list:	3	

3	4	Semester 2	CH40158	Chemistry of functional materials	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40162	Advanced organometallic chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40211	Chemistry beyond the molecule	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40212	Contemporary main group chemistry	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40219	Organic and inorganic aspects of homogeneous catalysis	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40220	Chemical thermodynamics in context	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40221	Sustainable chemistry in context	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40227	Advanced spectroscopic techniques	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40230	DNA in the modern world	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40231	Porous materials	CH4001 Optional Units: Select 18 credits from this list:	3	
3	4	Semester 2	CH40236	Organic functional materials and devices	CH4001 Optional Units: Select 18 credits from this list:	3	

<b>3</b>	<b>4</b>	<b>Semester 2</b>	CH40237	X-ray & neutron techniques for chemists	CH4001 Optional Units: Select 18 credits from this list:	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 2</b>	ZZ00001	Director of Studies approved unit	CH4001 Optional Units: Select 18 credits from this list:		

## **Programmes in Chemistry for Drug Discovery**

### **BSc (hons) Chemistry for Drug Discovery**

<b>Programme Code:</b>	USCH-AFB07
<b>Programme Title:</b>	BSc (hons) Chemistry for Drug Discovery
<b>Award Type:</b>	Bachelor of Science with Honours
<b>Award Title:</b>	BACHELOR OF SCIENCE IN CHEMISTRY FOR DRUG DISCOVERY
<b>Mode of Attendance:</b>	Full-time
<b>State if coexistent M-level programme:</b>	
<b>State any designated alternative programme(s):</b>	
<b>Approving body and date of approval:</b>	

#### **YEAR 1: BSc (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10191	Chemistry of the cell	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes

1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : BSc (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20160	Major therapeutic areas	Compulsory Unit	6	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes

2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

**YEAR 3 : BSc (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	3	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	3	All Year	CH30144	Dissertation	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	3	All Year	CH30159	University ambassadors scheme: science	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	3	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	3	Semester 1	CH30098	Techniques in drug discovery	Compulsory Unit	3	
3	3	Semester 1	CH30127	Topics in inorganic chemistry I	Compulsory Unit	3	
3	3	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	

3	3	Semester 1	CH30129	Topics in physical chemistry I	Compulsory Unit	3	
3	3	Semester 1	CH30209	Blockbuster drugs	Compulsory Unit	3	
3	3	Semester 1	CH30050	The chemical literature	CH3017 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	6	
3	3	Semester 2	CH30037	Synthesis of medicinal compounds	Compulsory Unit	3	
3	3	Semester 2	CH30065	Biosynthesis & biotransformations	Compulsory Unit	3	
3	3	Semester 2	CH30210	Future of drug discovery	Compulsory Unit	3	
3	3	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	Compulsory Unit	3	
3	3	Semester 2	CH30039	Computational chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30068	Physical organic chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30157	Chemistry of functional materials	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30162	Advanced organometallic chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30211	Chemistry beyond the molecule	CH3012 Optional Units: Select 6 credits from this list:	3	

3	3	Semester 2	CH30212	Contemporary main group chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30220	Chemical thermodynamics in context	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30221	Sustainable chemistry in context	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30224	Physical chemistry of food science	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30230	DNA in the modern world	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	CH30231	Porous materials	CH3012 Optional Units: Select 6 credits from this list:	3	
3	3	Semester 2	PA40155	Research topics in natural products	CH3012 Optional Units: Select 6 credits from this list:	6	
3	3	Semester 2	ZZ00001	Director of Studies approved unit	CH3012 Optional Units: Select 6 credits from this list:		
3	3	Semester 2	CH30063	Chemistry project	CH3014 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	3	All Year	CH30241	Engaging the public in chemistry research	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

**BSc (hons) Chemistry for Drug Discovery with Study Year Abroad**

Programme Code:	USCH-AAB08
Programme Title:	BSc (hons) Chemistry for Drug Discovery with Study Year abroad
Award Type:	Bachelor of Science with Honours
Award Title:	BACHELOR OF SCIENCE IN CHEMISTRY FOR DRUG DISCOVERY
Mode of Attendance:	Study Year Abroad
State if coexistent M-level programme:	
State any designated alternative programme(s):	BSc Chemistry for Drug Discovery (USCH-AFB07)
Approving body and date of approval:	

**YEAR 1 : BSc (Hons) Chemistry for Drug Discovery with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10191	Chemistry of the cell	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : BSc (Hons) Chemistry for Drug Discovery with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units:	3	Yes
					Select 1 unit from this list:		
2	2	Semester 2	CH20160	Major therapeutic areas	Compulsory Unit	6	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
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**YEAR 3: BSc (Hons) Chemistry for Drug Discovery with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30058	Study year abroad (BSc hons and MSci)	Compulsory Unit	60	

**YEAR 4 : BSc (Hons) Chemistry for Drug Discovery with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	4	All Year	CH30144	Dissertation	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	All Year	CH30159	University ambassadors scheme: science	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	

3	4	Semester 1	CH30098	Techniques in drug discovery	Compulsory Unit	3	
3	4	Semester 1	CH30127	Topics in inorganic chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30129	Topics in physical chemistry I	Compulsory Unit	3	
3	4	Semester 1	CH30209	Blockbuster drugs	Compulsory Unit	3	
3	4	Semester 1	CH30050	The chemical literature	CH3017 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	6	
3	4	Semester 2	CH30037	Synthesis of medicinal compounds	Compulsory Unit	3	
3	4	Semester 2	CH30065	Biosynthesis & biotransformations	Compulsory Unit	3	
3	4	Semester 2	CH30210	Future of drug discovery	Compulsory Unit	3	
3	4	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	Compulsory Unit	3	
3	4	Semester 2	CH30039	Computational chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30068	Physical organic chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30157	Chemistry of functional materials	CH3012 Optional Units: Select 6 credits from this list:	3	

3	4	Semester 2	CH30162	Advanced organometallic chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30211	Chemistry beyond the molecule	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30212	Contemporary main group chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30220	Chemical thermodynamics in context	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30221	Sustainable chemistry in context	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30224	Physical chemistry of food science	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30230	DNA in the modern world	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30231	Porous materials	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	PA40155	Research topics in natural products	CH3012 Optional Units: Select 6 credits from this list:	6	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3012 Optional Units: Select 6 credits from this list:		
3	4	Semester 2	CH30063	Chemistry project	CH3014 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	

3	4	All Year	CH30241	Engaging the public in chemistry research	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
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**BSc (hons) Chemistry for Drug Discovery with Industrial Training**

Programme Code:	USCH-AKB08
Programme Title:	BSc (hons) Chemistry for Drug Discovery with Industrial Training
Award Type:	Bachelor of Science with Honours
Award Title:	BACHELOR OF SCIENCE IN CHEMISTRY FOR DRUG DISCOVERY
Mode of Attendance:	Thick Sandwich
State if coexistent M-level programme:	
State any designated alternative programme(s):	BSc Chemistry for Drug Discovery (USCH-AFB07)
Approving body and date of approval:	

**YEAR 1: BSc (Hons) Chemistry for Drug Discovery with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	

1	1	Semester 1	CH10191	Chemistry of the cell	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2: BSc (Hons) Chemistry for Drug Discovery with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes

2	2	Semester 2	CH20160	Major therapeutic areas	Compulsory Unit	6	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

**YEAR 3 : BSc (Hons) Chemistry for Drug Discovery with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30054	Industrial placement (BSc hons)	Compulsory Unit	60	

**YEAR 4 : BSc (Hons) Chemistry for Drug Discovery with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH30189	General chemistry	Compulsory Unit	3	

<b>3</b>	<b>4</b>	<b>All Year</b>	CH30144	Dissertation	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	<b>18</b>	
<b>3</b>	<b>4</b>	<b>All Year</b>	CH30159	University ambassadors scheme: science	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	<b>18</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30043	Advanced practical chemistry	Compulsory Unit	<b>6</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30098	Techniques in drug discovery	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30127	Topics in inorganic chemistry I	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30128	Topics in organic chemistry I	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30129	Topics in physical chemistry I	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30209	Blockbuster drugs	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 1</b>	CH30050	The chemical literature	CH3017 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	<b>6</b>	
<b>3</b>	<b>4</b>	<b>Semester 2</b>	CH30037	Synthesis of medicinal compounds	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 2</b>	CH30065	Biosynthesis & biotransformations	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 2</b>	CH30210	Future of drug discovery	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 2</b>	CH30219	Organic and inorganic aspects of homogeneous catalysis	Compulsory Unit	<b>3</b>	
<b>3</b>	<b>4</b>	<b>Semester 2</b>	CH30039	Computational chemistry	CH3012 Optional Units: Select 6 credits from this list:	<b>3</b>	

3	4	Semester 2	CH30068	Physical organic chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30157	Chemistry of functional materials	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30162	Advanced organometallic chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30211	Chemistry beyond the molecule	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30212	Contemporary main group chemistry	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30220	Chemical thermodynamics in context	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30221	Sustainable chemistry in context	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30224	Physical chemistry of food science	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30230	DNA in the modern world	CH3012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH30231	Porous materials	CH3012 Optional Units: Select 6 credits from this list:	3	

3	4	Semester 2	PA40155	Research topics in natural products	CH3012 Optional Units: Select 6 credits from this list:	6	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3012 Optional Units: Select 6 credits from this list:		
3	4	Semester 2	CH30063	Chemistry project	CH3014 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	4	All Year	CH30241	Engaging the public in chemistry research	CH3016 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

#### ***MChem (hons) Chemistry for Drug Discovery***

Programme Code:	USCH-AFM05
Programme Title:	MChem (hons) Chemistry for Drug Discovery
Award Type:	Master of Chemistry with Honours
Award Title:	MASTER OF CHEMISTRY IN CHEMISTRY FOR DRUG DISCOVERY
Mode of Attendance:	Full-time
State if coexistent M-level programme:	
State any designated alternative programme(s):	BSc (hons) Chemistry for Drug Discovery (USCH-AFB07)
Approving body and date of approval:	

**YEAR 1 : MChem (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10191	Chemistry of the cell	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2: MChem (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	

2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20160	Major therapeutic areas	Compulsory Unit	6	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

**YEAR 3 : MChem (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30189	General chemistry	Compulsory Unit	3	
2	3	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
2	3	Semester 1	CH30050	The chemical literature	Compulsory Unit	6	
2	3	Semester 1	CH30098	Techniques in drug discovery	Compulsory Unit	3	
2	3	Semester 1	CH30128	Topics in organic chemistry I	Compulsory Unit	3	
2	3	Semester 1	CH30127	Topics in inorganic chemistry I	CH3026 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	3	Semester 1	CH30129	Topics in physical chemistry I	CH3026 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	3	Semester 1	CH30204	Analytical chemistry in context	CH3026 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	6	
2	3	Semester 2	CH30037	Synthesis of medicinal compounds	Compulsory Unit	3	
2	3	Semester 2	CH30063	Chemistry project	Compulsory Unit	12	

2	3	<b>Semester 2</b>	CH30065	Biosynthesis & biotransformations	Compulsory Unit	3	
2	3	<b>Semester 2</b>	CH30219	Organic and inorganic aspects of homogeneous catalysis	Compulsory Unit	3	
2	3	<b>Semester 2</b>	CH30039	Computational chemistry	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30068	Physical organic chemistry	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30086	Inorganic chemistry in biological systems	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30157	Chemistry of functional materials	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30162	Advanced organometallic chemistry	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30211	Chemistry beyond the molecule	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30212	Contemporary main group chemistry	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30220	Chemical thermodynamics in context	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30221	Sustainable chemistry in context	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	

2	3	<b>Semester 2</b>	CH30224	Physical chemistry of food science	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30230	DNA in the modern world	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	CH30231	Porous materials	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	3	
2	3	<b>Semester 2</b>	PA40155	Research topics in natural products	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:	6	
2	3	<b>Semester 2</b>	ZZ00001	Director of Studies approved unit	CH3013 Optional Units: Select a minimum of 6 and a maximum of 12 credits from this list:		

#### **YEAR 4 : MChem (Hons) Chemistry for Drug Discovery**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40167	Advanced chemistry research	Compulsory Unit	30	
3	4	<b>Semester 1</b>	CH40155	Advanced structural methods	Compulsory Unit	3	
3	4	<b>Semester 1</b>	CH40206	Topics in organic chemistry II	Compulsory Unit	3	
3	4	<b>Semester 1</b>	CH40208	Topics in computational chemistry	CH4016 Optional Units: Select 1 unit from this list:	3	

3	4	Semester 1	CH40209	Blockbuster drugs	Compulsory Unit	3	
3	4	Semester 1	CH40205	Topics in inorganic chemistry II	CH4016 Optional Units: Select 1 unit from this list:	3	
3	4	Semester 1	CH40207	Topics in physical chemistry II	CH4016 Optional Units: Select 1 unit from this list:	3	
3	4	Semester 2	CH40210	Future of drug discovery	Compulsory Unit	3	
3	4	Semester 1	CH40242	Preparation for chemistry research	Compulsory Unit	15	

***MChem (hons) Chemistry for Drug Discovery with Study Year Abroad***

Programme Code:	USCH-AAM06
Programme Title:	MChem (hons) Chemistry for Drug Discovery with Study Year Abroad
Award Type:	Master of Chemistry with Honours
Award Title:	MASTER OF CHEMISTRY IN CHEMISTRY FOR DRUG DISCOVERY
Mode of Attendance:	Study Year Abroad
State if coexistent M-level programme:	
State any designated alternative programme(s):	MChem (hons) Chemistry for Drug Discovery (USCH-AFM05), BSc (hons) Chemistry for Drug Discovery with Study Year abroad (USCHAAB08)
Approving body and date of approval:	

***YEAR 1 : MChem (Hons) Chemistry for Drug Discovery with Study Year Abroad***

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status

1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10191	Chemistry of the cell	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : MChem (Hons) Chemistry for Drug Discovery with Study Year Abroad**

Part	Stage	Normal period of study for	Unit code	Unit title	Unit status	Credits	DEU status
		this Mode					
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes

2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20160	Major therapeutic areas	Compulsory Unit	6	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

**YEAR 3 : MChem (Hons) Chemistry for Drug Discovery with Study Year Abroad**

Part	Stage	Normal period of study	Unit code	Unit title	Unit status	Credits	DEU status
		for this Mode					
2	3	All Year	CH30060	Study year abroad (MChem)	Compulsory Unit	48	
2	3	All Year	CH30217	Distance learning in chemistry	Compulsory Unit	12	

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40165	Chemistry research 1	Compulsory Unit	24	
3	4	Semester 1	CH40098	Techniques in drug discovery	Compulsory Unit	3	
3	4	Semester 1	CH40155	Advanced structural methods	Compulsory Unit	3	
3	4	Semester 1	CH40206	Topics in organic chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40209	Blockbuster drugs	Compulsory Unit	3	
3	4	Semester 1	CH40205	Topics in inorganic chemistry II	CH4014 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40207	Topics in physical chemistry II	CH4014 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40208	Topics in computational chemistry	CH4014 Optional Units: Select 2 units from this list:	3	
3	4	Semester 2	CH40037	Synthesis of medicinal compounds	Compulsory Unit	3	
3	4	Semester 2	CH40210	Future of drug discovery	Compulsory Unit	3	
3	4	Semester 2	CH40219	Organic and inorganic aspects of homogeneous catalysis	Compulsory Unit	3	
3	4	Semester 2	CH40039	Computational chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	

3	4	Semester 2	CH40068	Physical organic chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40086	Inorganic chemistry in biological systems	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40158	Chemistry of functional materials	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40162	Advanced organometallic chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40211	Chemistry beyond the molecule	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40212	Contemporary main group chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40221	Sustainable chemistry in context	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40230	DNA in the modern world	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40231	Porous materials	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	PA40155	Research topics in natural products	CH4009 Optional Units: Select 9 credits from this list:	6	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH4009 Optional Units: Select 9 credits from this list:		

***MChem (hons) Chemistry for Drug Discovery with Industrial Training***

<b>Programme Code:</b>	USCH-AKM03
<b>Programme Title:</b>	MChem (hons) Chemistry for Drug Discovery with Industrial Training
<b>Award Type:</b>	Master of Chemistry with Honours
<b>Award Title:</b>	MASTER OF CHEMISTRY IN CHEMISTRY FOR DRUG DISCOVERY
<b>Mode of Attendance:</b>	Thick Sandwich
<b>State if coexistent M-level programme:</b>	
<b>State any designated alternative programme(s):</b>	MChem (hons) Chemistry for Drug Discovery (USCH-AFM05), BSc (hons) Chemistry for Drug Discovery with Industrial Training (USCHAKB08)
<b>Approving body and date of approval:</b>	

***YEAR 1 : MChem (hons) Chemistry for Drug Discovery with Industrial Training***

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	CH10191	Chemistry of the cell	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes

1	1	Semester 2	CH10192	The chemistry of physiology and drug properties	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : MChem (hons) Chemistry for Drug Discovery with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20147	Inorganic synthesis, structure and reactivity	Compulsory Unit	12	
2	2	All Year	CH20149	Organic synthesis, reaction mechanisms and spectroscopy	Compulsory Unit	12	
2	2	All Year	CH20151	Principles of physical chemistry	Compulsory Unit	12	
2	2	Semester 1	CH20195	Analytical chemistry	Compulsory Unit	6	
2	2	Semester 1	CH20020	Inorganic chemistry laboratory 2	Compulsory Unit	3	Yes
2	2	Semester 1	CH20022	Physical chemistry laboratory 2	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 1	CH20023	Computational chemistry laboratory	CH2001 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20160	Major therapeutic areas	Compulsory Unit	6	
2	2	Semester 2	CH20021	Organic chemistry laboratory 2	Compulsory Unit	3	Yes

2	2	Semester 2	CH20022	Physical chemistry laboratory 2	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes
2	2	Semester 2	CH20023	Computational chemistry laboratory	CH2002 Designated Essential Units: Select 1 unit from this list:	3	Yes

#### YEAR 3 : MChem (hons) Chemistry for Drug Discovery with Industrial Training

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30055	Industrial studies	Compulsory Unit	48	
2	3	All Year	CH30217	Distance learning in chemistry	Compulsory Unit	12	

#### YEAR 4 : MChem (hons) Chemistry for Drug Discovery with Industrial Training

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40165	Chemistry research 1	Compulsory Unit	24	
3	4	Semester 1	CH40098	Techniques in drug discovery	Compulsory Unit	3	

3	4	Semester 1	CH40155	Advanced structural methods	Compulsory Unit	3	
3	4	Semester 1	CH40206	Topics in organic chemistry II	Compulsory Unit	3	
3	4	Semester 1	CH40209	Blockbuster drugs	Compulsory Unit	3	
3	4	Semester 1	CH40205	Topics in inorganic chemistry II	CH4014 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40207	Topics in physical chemistry II	CH4014 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40208	Topics in computational chemistry	CH4014 Optional Units: Select 2 units from this list:	3	
3	4	Semester 2	CH40037	Synthesis of medicinal compounds	Compulsory Unit	3	
3	4	Semester 2	CH40210	Future of drug discovery	Compulsory Unit	3	
3	4	Semester 2	CH40219	Organic and inorganic aspects of homogeneous catalysis	Compulsory Unit	3	
3	4	Semester 2	CH40039	Computational chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40068	Physical organic chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40086	Inorganic chemistry in biological systems	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40158	Chemistry of functional materials	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40162	Advanced organometallic chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	

3	4	Semester 2	CH40211	Chemistry beyond the molecule	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40212	Contemporary main group chemistry	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40221	Sustainable chemistry in context	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40230	DNA in the modern world	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	CH40231	Porous materials	CH4009 Optional Units: Select 9 credits from this list:	3	
3	4	Semester 2	PA40155	Research topics in natural products	CH4009 Optional Units: Select 9 credits from this list:	6	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH4009 Optional Units: Select 9 credits from this list:		

## **Programmes in Chemistry with Management**

### **BSc (hons) Chemistry with Management**

<b>Programme Code:</b>	USCH-AFB03
<b>Programme Title:</b>	BSc (hons) Chemistry with Management
<b>Award Type:</b>	Bachelor of Science with Honours
<b>Award Title:</b>	BACHELOR OF SCIENCE IN CHEMISTRY WITH MANAGEMENT
<b>Mode of Attendance:</b>	Full Time
<b>State if coexistent M-level programme:</b>	Yes
<b>State any designated alternative programme(s):</b>	
<b>Approving body and date of approval:</b>	

### **YEAR 1 : BSc (Hons) Chemistry with Management**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	MN10070	Business economics	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes

1	1	Semester 2	MN10248	Introduction to accounting	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : BSc (Hons) Chemistry with Management**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20148	Inorganic synthesis, structure and reactivity (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20150	Organic synthesis, reaction mechanisms and spectroscopy (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20152	Principles of physical chemistry (NS/CwM)	Compulsory Unit	12	
2	2	Semester 1	MN10545	Organisational behaviour	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20072	Managing human resources	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20501	Intermediate accounting	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN10500	Corporate finance for managers	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20073	Marketing	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20445	Corporate responsibility: principles and perspectives	CH2004 Optional Units: Select 2 units from this list:	6	

2	2	Semester 2	MN20624	People and innovation	CH2004 Optional Units: Select 2 units from this list:	6	
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**YEAR 3 : BSc (Hons) Chemistry with Management**

**Year 3** No more than 12 credits can be taken at level 2.

Students must select CH30144, CH30159, CH30063, or CH30232 during this year of the programme. **BSc (hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	3	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	3	All Year	CH30144	Dissertation	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	3	All Year	CH30159	University ambassadors scheme: science	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	3	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	3	Semester 1	CH20195	Analytical chemistry	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	3	Semester 1	CH30050	The chemical literature	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	

3	3	Semester 1	CH30203	Radiochemistry	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	3	
3	3	Semester 1	CH30235	Organic chemistry of biomolecules	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21	3	
					credits from this list:		
3	3	Semester 1	MN20074	Digital business innovation	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	3	Semester 1	MN20502	Principles of finance for managers	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	3	Semester 1	MN30281	Privacy, trust and security in information systems	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	3	Semester 1	ZZ00001	Director of Studies approved unit	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:		
3	3	Semester 1	CH30127	Topics in inorganic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	3	Semester 1	CH30128	Topics in organic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	

3	3	Semester 1	CH30129	Topics in physical chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	3	Semester 2	CH20146	Symmetry and group theory	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH20238	Introduction to computational chemistry	CH3021 Optional Units: Select a minimum of 12 and a maximum of	3	
					24 credits from this list:		
3	3	Semester 2	CH30039	Computational chemistry	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30157	Chemistry of functional materials	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30211	Chemistry beyond the molecule	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30212	Contemporary main group chemistry	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	

3	3	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30221	Sustainable chemistry in context	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30224	Physical chemistry of food science	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30227	Advanced spectroscopic techniques	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30230	DNA in the modern world	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30231	Porous materials	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30236	Organic functional materials and devices	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	3	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	

3	3	Semester 2	MN20503	Intermediate corporate finance for managers	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	3	Semester 2	MN30076	Business strategy	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	3	Semester 2	MN30436	Contemporary issues in business and society	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	3	Semester 2	MN30470	Investment and trading	CH3021 Optional Units: Select a minimum of 12 and a maximum of	6	
					24 credits from this list:		
3	3	Semester 2	MN30549	Advanced accounting	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	3	Semester 2	ZZ00001	Director of Studies approved unit	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:		
3	3	Semester 2	CH30063	Chemistry project	CH3032 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	3	All Year	CH30241	Engaging the public in chemistry research	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

3	3	Semester 1	MN30222	Innovation, industrialisation & international competitiveness	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	3	Semester 1	MN30449	Strategic Management	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	

Programme Code:	USCH-AKB04
Programme Title:	BSc (hons) Chemistry with Management with Industrial Training
Award Type:	Bachelor of Science with Honours
Award Title:	BACHELOR OF SCIENCE IN CHEMISTRY WITH MANAGEMENT
Mode of Attendance:	Thick Sandwich
State if coexistent M-level programme:	Yes
State any designated alternative programme(s):	BSc (hons) Chemistry with Management (USCH-AFB03)
Approving body and date of approval:	

#### **YEAR 1 : BSc (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	

1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	MN10070	Business economics	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	MN10248	Introduction to accounting	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : BSc (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20148	Inorganic synthesis, structure and reactivity (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20150	Organic synthesis, reaction mechanisms and spectroscopy (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20152	Principles of physical chemistry (NS/CwM)	Compulsory Unit	12	
2	2	Semester 1	MN10545	Organisational behaviour	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20072	Managing human resources	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20501	Intermediate accounting	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN10500	Corporate finance for managers	CH2004 Optional Units: Select 2 units from this list:	6	

2	2	Semester 2	MN20073	Marketing	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20445	Corporate responsibility: principles and perspectives	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20624	People and innovation	CH2004 Optional Units: Select 2 units from this list:	6	

**YEAR 3 : BSc (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30054	Industrial placement (BSc hon)	Compulsory Unit	60	

**YEAR 4 : BSc (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	4	All Year	CH30144	Dissertation	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	All Year	CH30159	University ambassadors scheme: science	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	

3	4	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	4	Semester 1	CH20195	Analytical chemistry	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	CH30050	The chemical literature	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	CH30203	Radiochemistry	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	3	
3	4	Semester 1	CH30235	Organic chemistry of biomolecules	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	3	
3	4	Semester 1	MN20074	Digital business innovation	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	MN20502	Principles of finance for managers	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	MN30281	Privacy, trust and security in information systems	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	

3	4	Semester 1	ZZ00001	Director of Studies approved unit	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:		
3	4	Semester 1	CH30127	Topics in inorganic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	4	Semester 1	CH30128	Topics in organic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	4	Semester 1	CH30129	Topics in physical chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	4	Semester 2	CH20146	Symmetry and group theory	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	Semester 2	CH20238	Introduction to computational chemistry	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	Semester 2	CH30039	Computational chemistry	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
					24 credits from this list:		

3	4	<b>Semester 2</b>	CH30157	Chemistry of functional materials	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30211	Chemistry beyond the molecule	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30212	Contemporary main group chemistry	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30221	Sustainable chemistry in context	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30224	Physical chemistry of food science	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30227	Advanced spectroscopic techniques	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	<b>Semester 2</b>	CH30230	DNA in the modern world	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	

3	4	Semester 2	CH30231	Porous materials	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	Semester 2	CH30236	Organic functional materials and devices	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	3	
3	4	Semester 2	MN20503	Intermediate corporate finance for managers	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	4	Semester 2	MN30076	Business strategy	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	4	Semester 2	MN30436	Contemporary issues in business and society	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	4	Semester 2	MN30470	Investment and trading	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	
3	4	Semester 2	MN30549	Advanced accounting	CH3021 Optional Units: Select a minimum of 12 and a maximum of 24 credits from this list:	6	

3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3021 Optional Units: Select a minimum of 12 and a maximum of		
					24 credits from this list:		
3	4	Semester 2	CH30063	Chemistry project	CH3032 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	4	All Year	CH30241	Engaging the public in chemistry research	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	Semester 1	MN30222	Innovation, industrialisation & international competitiveness	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	

**BSc (hons) Chemistry with Management with Study Year Abroad**

Programme Code:	USCH-AAB04
Programme Title:	BSc (hons) Chemistry with Management with Study Year Abroad
Award Type:	Bachelor of Science with Honours
Award Title:	BACHELOR OF SCIENCE IN CHEMISTRY WITH MANAGEMENT
Mode of Attendance:	Thick Sandwich
State if coexistent M-level programme:	Yes
State any designated alternative programme(s):	BSc (hons) Chemistry with Management (USCH-AFB03)
Approving body and date of approval:	

**YEAR 1 : BSc (Hons) Chemistry with Management with Study Year Abroad**

Part	Stage	Normal period of study for	Unit code	Unit title	Unit status	Credits	DEU status
		this Mode					
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	MN10070	Business economics	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	MN10248	Introduction to accounting	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : BSc (Hons) Chemistry with Management with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20148	Inorganic synthesis, structure and reactivity (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20150	Organic synthesis, reaction mechanisms and spectroscopy (NS/CwM)	Compulsory Unit	12	

2	2	All Year	CH20152	Principles of physical chemistry (NS/CwM)	Compulsory Unit	12	
2	2	Semester 1	MN10545	Organisational behaviour	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20072	Managing human resources	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20501	Intermediate accounting	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN10500	Corporate finance for managers	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20073	Marketing	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20445	Corporate responsibility: principles and perspectives	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20624	People and innovation	CH2004 Optional Units: Select 2 units from this list:	6	

**YEAR 3 : BSc (Hons) Chemistry with Management with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30058	Study year abroad (BSc hons and MSci)	Compulsory Unit	60	

**YEAR 4 : BSc (Hons) Chemistry with Management with Study Year Abroad**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH30189	General chemistry	Compulsory Unit	3	
3	4	All Year	CH30144	Dissertation	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	All Year	CH30159	University ambassadors scheme: science	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	18	
3	4	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
3	4	Semester 1	CH20195	Analytical chemistry	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	CH30050	The chemical literature	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	CH30203	Radiochemistry	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	3	

3	4	Semester 1	CH30235	Organic chemistry of biomolecules	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	3	
3	4	Semester 1	MN20074	Digital business innovation	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	MN20502	Principles of finance for managers	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	MN30281	Privacy, trust and security in information systems	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	ZZ00001	Director of Studies approved unit	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:		
3	4	Semester 1	CH30127	Topics in inorganic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	4	Semester 1	CH30128	Topics in organic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
3	4	Semester 1	CH30129	Topics in physical chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	

3	4	Semester 2	CH20146	Symmetry and group theory	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH20238	Introduction to computational chemistry	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30039	Computational chemistry	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30157	Chemistry of functional materials	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30211	Chemistry beyond the molecule	CH3021 Optional Units: Select a minimum of 18 and a maximum	3	
					of 21 credits from this list:		
3	4	Semester 2	CH30212	Contemporary main group chemistry	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	

3	4	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30221	Sustainable chemistry in context	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30224	Physical chemistry of food science	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30227	Advanced spectroscopic techniques	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30230	DNA in the modern world	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30231	Porous materials	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30236	Organic functional materials and devices	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	
3	4	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	3	

3	4	Semester 2	MN20503	Intermediate corporate finance for managers	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	6	
3	4	Semester 2	MN30076	Business strategy	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	6	
3	4	Semester 2	MN30436	Contemporary issues in business and society	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	6	
3	4	Semester 2	MN30470	Investment and trading	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	6	
3	4	Semester 2	MN30549	Advanced accounting	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:	6	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3021 Optional Units: Select a minimum of 18 and a maximum of 21 credits from this list:		
3	4	Semester 2	CH30063	Chemistry project	CH3032 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
3	4	All Year	CH30241	Engaging the public in chemistry research	CH3031 Optional Units: Select a minimum of 0 and a maximum	18	
					of 1 units from this list:		

3	4	Semester 1	MN30222	Innovation, industrialisation & international competitiveness	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	
3	4	Semester 1	MN30449	Strategic Management	CH3004 Optional Units: Select a minimum of 9 and a maximum of 21 credits from this list:	6	

***MSci (hons) Chemistry with Management***

Programme Code:	USCH-AFM07
Programme Title:	MSci (hons) Chemistry with Management
Award Type:	Master of Science with Honours
Award Title:	MASTER OF SCIENCE IN CHEMISTRY WITH MANAGEMENT
Mode of Attendance:	Full Time
State if coexistent M-level programme:	Yes
State any designated alternative programme(s):	BSc (hons) Chemistry with Management (USCH-AFB03)
Approving body and date of approval:	

***YEAR 1 : MSci (Hons) Chemistry with Management***

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	

1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	MN10070	Business economics	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	MN10248	Introduction to accounting	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : MSci (Hons) Chemistry with Management**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20148	Inorganic synthesis, structure and reactivity (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20150	Organic synthesis, reaction mechanisms and spectroscopy (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20152	Principles of physical chemistry (NS/CwM)	Compulsory Unit	12	
2	2	Semester 1	MN10545	Organisational behaviour	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20072	Managing human resources	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20501	Intermediate accounting	CH2003 Optional Units: Select 2 units from this list:	6	

2	2	Semester 2	MN10500	Corporate finance for managers	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20073	Marketing	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20445	Corporate responsibility: principles and perspectives	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20624	People and innovation	CH2004 Optional Units: Select 2 units from this list:	6	

#### **YEAR 3 : MSci (Hons) Chemistry with Management**

**Year 3 Students may take no more than 12 level 2 credits throughout this year and no more than 36 credits in either semester. You must select a minimum of 18 credits and a maximum of 24 credits of Management options during this programme year.**

**Students must select CH30144, CH30159, CH30063, or CH30232 during this year of the programme.**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30189	General chemistry	Compulsory Unit	3	
2	3	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
2	3	Semester 1	CH30127	Topics in inorganic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	3	Semester 1	CH30128	Topics in organic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	3	Semester 1	CH30129	Topics in physical chemistry I	CH3019 Optional Units: Select a minimum of 2 and	3	

					a maximum of 3 units from this list:		
2	3	Semester 1	CH20195	Analytical chemistry	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	6	
2	3	Semester 1	CH30050	The chemical literature	CH3024 Optional Units: Select a minimum of 0 and	6	
					a maximum of 18 credits from this list:		
2	3	Semester 1	CH30203	Radiochemistry	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	3	
2	3	Semester 1	CH30235	Organic chemistry of biomolecules	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	3	
2	3	Semester 1	ZZ00001	Director of Studies approved unit	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:		
2	3	Semester 1	MN20074	Digital business innovation	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	3	Semester 1	MN20502	Principles of finance for managers	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	

2	3	Semester 1	MN30281	Privacy, trust and security in information systems	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	3	Semester 2	CH20146	Symmetry and group theory	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH20238	Introduction to computational chemistry	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30086	Inorganic chemistry in biological systems	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
					credits from this list:		
2	3	Semester 2	CH30157	Chemistry of functional materials	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30211	Chemistry beyond the molecule	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30212	Contemporary main group chemistry	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	

2	3	Semester 2	CH30221	Sustainable chemistry in context	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30224	Physical chemistry of food science	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30227	Advanced spectroscopic techniques	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30230	DNA in the modern world	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30231	Porous materials	CH3027 Optional Units: Select a	3	
					minimum of 0 and a maximum of 24 credits from this list:		
2	3	Semester 2	CH30236	Organic functional materials and devices	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	3	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	

2	3	Semester 2	ZZ00001	Director of Studies approved unit	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:		
2	3	Semester 2	MN20503	Intermediate corporate finance for managers	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	3	Semester 2	MN30076	Business strategy	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	3	Semester 2	MN30436	Contemporary issues in business and society	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	3	Semester 2	MN30470	Investment and trading	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	3	Semester 2	MN30549	Advanced accounting	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	3	Semester 1	MN30222	Innovation, industrialisation & international competitiveness	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	3	Semester 1	MN30449	Strategic management	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	

2	3	All Year	CH30159	University ambassadors scheme: science  <i>NB whilst in the unit catalogue for those in their third year in 2018/19 this will be removed in 2019/20</i>	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: Students must choose 1 unit from CH3031 or CH3032	18	
2	3	All Year	CH30144	Dissertation  <i>NB whilst in the unit catalogue for those in their third year in 2018/19 this will be removed in 2019/20</i>	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: Students must choose 1 unit from CH3031 or CH3032	18	
2	3	All Year	CH30241	Engaging the public in chemistry research  <i>NB whilst in the unit catalogue for those in their third year in 2018/19 this will be removed in 2019/20</i>	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: Students must choose 1 unit from CH3031 or CH3032	18	
2	3	Semester 2	CH30063	Chemistry project	CH3032 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	

#### YEAR 4 : MSci (Hons) Chemistry with Management

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	4	All Year	CH40164	Chemistry research 2	Compulsory Unit	30	
3	4	Semester 1	MN50175	Operations management	Compulsory Unit	6	

3	4	Semester 1	CH40205	Topics in inorganic chemistry II	CH4013 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40206	Topics in organic chemistry II	CH4013 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40207	Topics in physical chemistry II	CH4013 Optional Units: Select 2 units from this list:	3	
3	4	Semester 1	CH40208	Topics in computational chemistry	CH4013 Optional Units: Select 2 units from this list:	3	
3	4	Semester 2	MN50550	Business analytics	Compulsory Unit	6	
3	4	Semester 2	MN50583	Strategies for sustainability	Compulsory Unit	6	
3	4	Semester 2	CH40037	Synthesis of medicinal compounds	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40039	Computational chemistry	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40068	Physical organic chemistry	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40086	Inorganic chemistry in biological systems	CH4012 Optional Units: Select 6 credits from this list:	3	

3	4	Semester 2	CH40158	Chemistry of functional materials	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40211	Chemistry beyond the molecule	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40212	Contemporary main group chemistry	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40219	Organic and inorganic aspects of homogeneous catalysis	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40220	Chemical thermodynamics in context	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40221	Sustainable chemistry in context	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40227	Advanced spectroscopic techniques	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40230	DNA in the modern world	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40231	Porous materials	CH4012 Optional Units: Select 6 credits from this list:	3	

3	4	Semester 2	CH40236	Organic functional materials and devices	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	CH40237	X-ray & neutron techniques for chemists	CH4012 Optional Units: Select 6 credits from this list:	3	
3	4	Semester 2	ZZ00001	Director of Studies approved unit	CH4012 Optional Units: Select		
					6 credits from this list:		

***MSci (hons) Chemistry with Management with Industrial Training***

Programme Code:	USCH-AKM07
Programme Title:	MSci (hons) Chemistry with Management with Industrial Training
Award Type:	Master of Science with Honours
Award Title:	MASTER OF SCIENCE IN CHEMISTRY WITH MANAGEMENT
Mode of Attendance:	Thick Sandwich
State if coexistent M-level programme:	Yes
State any designated alternative programme(s):	MSci (hons) Chemistry with Management (USCH-AFM07), BSc (hons) Chemistry with Management with Industrial Training (USCH-AKB04)
Approving body and date of approval:	

**YEAR 1 : MSci (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
1	1	All Year	CH10133	Atomic structure, bonding and the Periodic Table	Compulsory Unit	12	
1	1	All Year	CH10135	Fundamentals of organic chemistry	Compulsory Unit	12	
1	1	All Year	CH10137	From molecules to materials	Compulsory Unit	12	
1	1	Semester 1	MN10070	Business economics	Compulsory Unit	6	
1	1	Semester 1	CH10009	Foundation chemistry laboratory	Compulsory Unit	6	Yes
1	1	Semester 2	MN10248	Introduction to accounting	Compulsory Unit	6	
1	1	Semester 2	CH10193	General practical chemistry	Compulsory Unit	6	Yes

**YEAR 2 : MSci (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	2	All Year	CH20148	Inorganic synthesis, structure and reactivity (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20150	Organic synthesis, reaction mechanisms and spectroscopy (NS/CwM)	Compulsory Unit	12	
2	2	All Year	CH20152	Principles of physical chemistry (NS/CwM)	Compulsory Unit	12	

2	2	Semester 1	MN10545	Organisational behaviour	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20072	Managing human resources	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 1	MN20501	Intermediate accounting	CH2003 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN10500	Corporate finance for managers	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20073	Marketing	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20445	Corporate responsibility: principles and perspectives	CH2004 Optional Units: Select 2 units from this list:	6	
2	2	Semester 2	MN20624	People and innovation	CH2004 Optional Units: Select 2 units from this list:	6	

***YEAR 3 : MSci (Hons) Chemistry with Management with Industrial Training***

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	3	All Year	CH30054	Industrial placement (BSc hons)	Compulsory Unit	60	

**YEAR 4 : MSci (Hons) Chemistry with Management with Industrial Training**

**Year 4 Students may take no more than 12 level 2 credits throughout this year and no more than 36 credits in either semester.. You must select a minimum of 18 credits and a maximum of 24 credits of Management options during this programme year.**

**Students must select CH30144, CH30159, CH30063, or CH30232 during this year of the programme**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
2	4	All Year	CH30189	General chemistry	Compulsory Unit	3	
2	4	Semester 1	CH30043	Advanced practical chemistry	Compulsory Unit	6	
2	4	Semester 1	CH30127	Topics in inorganic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	4	Semester 1	CH30128	Topics in organic chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	4	Semester 1	CH30129	Topics in physical chemistry I	CH3019 Optional Units: Select a minimum of 2 and a maximum of 3 units from this list:	3	
2	4	Semester 1	CH20195	Analytical chemistry	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	6	
2	4	Semester 1	CH30050	The chemical literature	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	6	

2	4	Semester 1	CH30203	Radiochemistry	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	3	
2	4	Semester 1	CH30235	Organic chemistry of biomolecules	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:	3	
2	4	Semester 1	ZZ00001	Director of Studies approved unit	CH3024 Optional Units: Select a minimum of 0 and a maximum of 18 credits from this list:		
2	4	Semester 1	MN20074	Digital business innovation	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	4	Semester 1	MN20502	Principles of finance for managers	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	4	Semester 1	MN30281	Privacy, trust and security in information systems	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	4	Semester 2	CH20146	Symmetry and group theory	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	Semester 2	CH20238	Introduction to computational chemistry	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	

2	4	<b>Semester 2</b>	CH30086	Inorganic chemistry in biological systems	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30157	Chemistry of functional materials	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30211	Chemistry beyond the molecule	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30212	Contemporary main group chemistry	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30219	Organic and inorganic aspects of homogeneous catalysis	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30221	Sustainable chemistry in context	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30224	Physical chemistry of food science	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3	
2	4	<b>Semester 2</b>	CH30227	Advanced spectroscopic techniques	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24	3	

						credits from this list:		
2	4	Semester 2	CH30230	DNA in the modern world	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3		
2	4	Semester 2	CH30231	Porous materials	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3		
2	4	Semester 2	CH30236	Organic functional materials and devices	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3		
2	4	Semester 2	CH30237	X-ray & neutron techniques for chemists	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:	3		
2	4	Semester 2	ZZ00001	Director of Studies approved unit	CH3027 Optional Units: Select a minimum of 0 and a maximum of 24 credits from this list:			
2	4	Semester 2	MN20503	Intermediate corporate finance for managers	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6		
2	4	Semester 2	MN30076	Business strategy	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6		
2	4	Semester 2	MN30436	Contemporary issues in business and society	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6		

2	4	Semester 2	MN30470	Investment and trading	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	4	Semester 2	MN30549	Advanced accounting	CH3030 Optional Units: Select a minimum of 0 and a maximum of 4 units from this list:	6	
2	4	Semester 1	MN30222	Innovation, industrialisation & international competitiveness	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	4	Semester 1	MN30449	Strategic management	CH3029 Optional Units: Select a minimum of 0 and a maximum of 3 units from this list:	6	
2	4	All Year	CH30144	Dissertation  <i>NB whilst in the unit catalogue for those in their fourth year in 2018/19 this will be removed in 2019/20</i>	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: Students must choose 1 unit from CH3031 or CH3032	18	
2	4	All Year	CH30159	University ambassadors scheme: science  <i>NB whilst in the unit catalogue for those in their fourth year in 2018/19 this will be removed in 2019/20</i>	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: Students must choose 1 unit from CH3031 or CH3032	18	
2	4	All Year	CH30241	Engaging the public in chemistry research  <i>NB whilst in the unit catalogue for those in their fourth year in 2018/19 this will be removed in 2019/20</i>	CH3031 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: Students must choose 1 unit from CH3031 or CH3032	18	

2	4	Semester 2	CH30063	Chemistry project	CH3032 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list:	12	
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**YEAR 5 : MSci (Hons) Chemistry with Management with Industrial Training**

Part	Stage	Normal period of study for this Mode	Unit code	Unit title	Unit status	Credits	DEU status
3	5	All Year	CH40164	Chemistry research 2	Compulsory Unit	30	
3	5	Semester 1	MN50175	Operations management	Compulsory Unit	6	
3	5	Semester 1	CH40205	Topics in inorganic chemistry II	CH4013 Optional Units: Select 2 units from this list:	3	
3	5	Semester 1	CH40206	Topics in organic chemistry II	CH4013 Optional Units: Select 2 units from this list:	3	
3	5	Semester 1	CH40207	Topics in physical chemistry II	CH4013 Optional Units: Select 2 units from this list:	3	
3	5	Semester 1	CH40208	Topics in computational chemistry	CH4013 Optional Units: Select 2 units from this list:	3	
3	5	Semester 2	MN50550	Business analytics	Compulsory Unit	6	
3	5	Semester 2	MN50583	Strategies for sustainability	Compulsory Unit	6	
3	5	Semester 2	CH40037	Synthesis of medicinal compounds	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40039	Computational chemistry	CH4012 Optional Units: Select 6 credits from this list:	3	

3	5	Semester 2	CH40068	Physical organic chemistry	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40086	Inorganic chemistry in biological systems	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40158	Chemistry of functional materials	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40211	Chemistry beyond the molecule	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40212	Contemporary main group chemistry	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40219	Organic and inorganic aspects of homogeneous catalysis	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40220	Chemical thermodynamics in context	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40221	Sustainable chemistry in context	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40227	Advanced spectroscopic techniques	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40230	DNA in the modern world	CH4012 Optional Units: Select 6 credits from this list:	3	
3	5	Semester 2	CH40231	Porous materials	CH4012 Optional Units: Select 6 credits from this list:	3	

<b>3</b>	<b>5</b>	<b>Semester 2</b>	CH40236	Organic functional materials and devices	CH4012 Optional Units: Select 6 credits from this list:	<b>3</b>	
<b>3</b>	<b>5</b>	<b>Semester 2</b>	CH40237	X-ray & neutron techniques for chemists	CH4012 Optional Units: Select 6 credits from this list:	<b>3</b>	
<b>3</b>	<b>5</b>	<b>Semester 2</b>	ZZ00001	Director of Studies approved unit	CH4012 Optional Units: Select 6 credits from this list:		

## ***Programme Weightings***

The Year 1 marks make no contribution to the overall degree classification of any programme of study. The classification is based on marks obtained in Years 2 and beyond, as appropriate. However, in order to progress to the next stage of your degree programme you do need to pass all units, whether this is at the first attempt or through supplementary examinations.

Please note that you are not always allowed to take supplementary assessments; in particular, if you have failed a significant number of units by a considerable margin, instead you might have to repeat the stage (year) or withdraw from the University.

### ***BSc programmes***

<b>Assessment weightings and decision references</b>		
<b>Stage</b>	<b>Weighting within programme</b>	<b>NFAAR-UG decisions reference</b> See <a href="https://www.bath.ac.uk/publications/nfaar-ug-and-appendices/attachments/nfaar-ug.pdf">NFAAR-UG information at: https://www.bath.ac.uk/publications/nfaar-ug-and-appendices/attachments/nfaar-ug.pdf</a>
<b>Year 1</b>	0 %	Main assessment: Appendix 11 Supplementary assessment: Appendix 12
<b>Year 2</b>	32 %	Main assessment: Appendix 11 Supplementary assessment: Appendix 12
<b>Year 3</b>	68 %	Main assessment: Appendix 27 Supplementary assessment: Appendix 28

### ***MChem and MSci Programmes***

<b>Assessment weightings and decision references</b>					
<b>Stage</b>	<b>Weighting within</b>	<b>NFAAR-UG</b>	<b>decisions reference</b>	<b>programme</b>	<b>See <a href="https://www.bath.ac.uk/publications/nfaar-ug-and-appendices/attachments/nfaar-ug.pdf">NFAAR-UG information at: https://www.bath.ac.uk/publications/nfaar-ug-and-appendices/attachments/nfaar-ug.pdf</a></b>
<b>Year 1</b>	0 %		Main assessment: Appendix 15 Supplementary assessment: Appendix 16		
<b>Year 2</b>	16 %		Main assessment: Appendix 23 Supplementary assessment: Appendix 24		
<b>Year 3</b>	34 %		Main assessment: Appendix 23 Supplementary assessment: Appendix 24		
<b>Year 4</b>	50%		Main assessment: Appendix 27 Supplementary assessment: Appendix 28		

### ***Further information***

Section in this Handbook on **Assessment**.

Definitions of assessment terms: [www.bath.ac.uk/registry/nfa/nfaar-ug-appendix-02.pdf](https://www.bath.ac.uk/registry/nfa/nfaar-ug-appendix-02.pdf)

