

Variation to the Course Information Document

For Academic Year 2020/21

<p>Name of programme(s) and award type(s): <i>(such as Single Honours History with International Year)</i></p>	<p>MChem Chemistry MChem Chemistry with Medicinal Chemistry MChem Chemistry with International Year MChem Chemistry with Medicinal Chemistry with International Year MChem Chemistry with Industrial Placement Year MChem Chemistry with Medicinal Chemistry with Industrial Placement Year</p>
---	--

Dear students,

As part of our commitment to continually work to improve our programmes, and in light of our plans to start next academic year with a hybrid delivery model due to the impact of Covid-19, we are confirming in this document the changes to your programme in the Academic Year 2020/21. More general information about what studying at the University will be like in 2020/21 can be found here:

<https://www.keele.ac.uk/coronavirus/operations/>

Specific planned changes

<p>How the programme will be taught <i>(include any significant changes to the balance between on campus and digital delivery and what students can expect)</i></p>	<p>We estimate that approximately 80% of the course will be delivered online. Lectures will be adapted for asynchronous online delivery and supplemented by both interactive asynchronous activities and synchronous learning opportunities where students can engage with academic staff and their peers. There is a strong commitment to fostering a safe, supportive hybrid learning community.</p> <p>Synchronous sessions will require that students are present online at a given time, and these sessions will be timetabled. Synchronous sessions may include Q and A sessions, Team-Based Learning (TBL) workshops, interactive workshops, tutorials and small group work. Synchronous delivery will be scheduled at the most appropriate points in the timetable, and the number of hours is likely to vary each week. For Levels 4 and 5, approximately 25% (~3-4 hours per week) of your online learning will be via synchronous delivery. For Level 6, approximately 20% (~2 hours per week) of your online learning will be via synchronous delivery. For Level 7, the majority of the non-experimental learning will be delivered asynchronously to prioritise final year research project work in the research laboratories, but there will be a smaller number of timetabled synchronous sessions.</p> <p>For Levels 4 and 5, students will be expected to attend laboratory classes on campus (approx. 3 hr per week). Level 6 students will be</p>
--	---

	expected to attend research project laboratories (approx. 12 hr in Semester 1, approx. 30-35 hr in Semester 2).
Changes to placements, field courses or other practical activities (<i>where applicable</i>)	<p>At Levels 4 and 5, the overall number of practical classes attended by each student will be reduced (students will attend approx. 3 hr per week, 60-70% of laboratory sessions as compared to students at equivalent levels pre-Covid 19) to ensure social distancing guidelines are followed in order to minimise risk to those attending practical classes.</p> <p>At Level 6, students will have the opportunity to complete a research project (CHE-30050) comprising 80-100 hours of project work. Within this work, it is planned that 40-50 hr will be experimental project work (which may comprise laboratory work), and 40-50 hr will comprise research-related work.</p> <p>At Level 7, students will undertake their 400-hour MChem research project (either CHE-40021 or CHE-40034) in the research laboratories. In order to schedule project work whilst adhering to the social distancing guidelines, students may be assigned to individual timetables for both their project work and non-project work.</p>
Learning resources and any potential additional costs (<i>such as equipment requirements</i>)	<p>The KLE will be used to deliver recorded materials and all reading lists will be updated to contain digital alternatives to physical books where possible. Video conferencing software such as Microsoft Teams will be used to deliver online synchronous sessions.</p> <p>Given an increasing level of online teaching and assessments for this programme, it would be preferable if students had access to computer equipment with a webcam and microphone. It may also be preferable for students to have adequate Wi-Fi connectivity and associated internet speeds. Students who need support in accessing appropriate IT equipment may be eligible to apply for support from the University's hardship fund.</p>
How the programme will be assessed (<i>a general summary of changes to assessment methods</i>)	At Levels 4-7, it is planned that all unseen examinations will be replaced with time-limited open book assessments (submitted online). For levels 4 and 5 this will be accompanied by continuous low stakes, summative assessment, such as multiple-choice quizzes, deployed through the KLE.
How students are supported (<i>any alternative arrangements such as communication methods, support networks etc.</i>)	A range of online learning materials will be provided on the KLE, alongside frequent low stakes summative multiple-choice tests for Levels 4 and 5, for staff and students to monitor progress. Where possible online synchronous sessions will be timetabled to a slightly longer slot to allow for additional interaction between staff and students. There will be regular opportunities for students to access personal tutor support via online platforms.

Updated module lists for 2020/21

Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Practical and Professional Chemistry Skills	CHE-10061	30	1-2	Unchanged

Chemical Structure and Reactivity	CHE-10063	30	1-2	Unchanged
Environmental and Sustainable Chemistry	CHE-10065	30	1-2	Unchanged
Optional modules	Module Code	Credits	Semester	
N/A				

Year 2 / Level 5 (2019/20 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Molecular Chemistry and Reactions	CHE-20055	30	1-2	Unchanged
Spectroscopy and Analysis	CHE-20057	30	1-2	Unchanged
Physical and Structural Chemistry	CHE-20059	30	1-2	Unchanged
Optional modules	Module Code	Credits	Semester	
Medicinal and Biological Chemistry 1	CHE-20027	15	1-2	Unchanged
Sustainable Chemistry ^a	CHE-20032	15	2	Unchanged
Industrial Chemistry	CHE-20037	15	1	Unchanged

^a Only available to students who have not studied CHE-10051 or CHE-10065.

Year 3 / Level 6 (2018/19 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Advanced Chemical Analysis	CHE-30032	15	2	Unchanged
Kinetics, Photochemistry and Inorganic Reaction Mechanisms	CHE-30038	15	1	Unchanged
Advanced Organic Chemistry	CHE-30039	15	1	Unchanged
Inorganic, Physical and Solid State Chemistry	CHE-30042	15	1-2	Unchanged
Chemistry/Medicinal Chemistry Research Project	CHE-30046	15	1-2	Unchanged
Chemistry/Medicinal Chemistry Research Project	CHE-30050	15	1-2	Unchanged
Optional modules	Module Code	Credits	Semester	
Topics in Chemistry ^a	CHE-30037	15	2	Unchanged
Materials Chemistry ^b	CHE-30043	15	1	Unchanged
Topics in Medicinal Chemistry ^b	CHE-30044	15	2	Unchanged
Medicinal and Biological Chemistry 2 ^a	CHE-30047	15	1	Unchanged

^a Students must select either CHE-30037 or CHE-30044, ^b Students must select either CHE-30043 or CHE-30047.

Year 4 / Level 7 (2017/18 entry cohort)

MChem Chemistry combinations:

The MChem final year has been reconfigured to provide the flexibility needed to complete the research project. All modules will now run throughout the length of the year:

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
MChem Research Project	CHE-40021	60	1-2	Unchanged
MChem Research Training	CHE-40022	15	1-2	Removed
Applied Chemistry Topics	CHE-40023	30	1	Removed
Research Chemistry Topics	CHE-40024	15	2	Removed
Advanced Topics in Chemistry and Medicinal Chemistry	CHE-40048	30	1-2	Added
MChem Research Training	CHE-40050	30	1-2	Added
Optional modules	Module Code	Credits	Semester	
N/A				

Although the content of the year remains unchanged, the assessments have been redistributed as shown in the two tables below (as noted above the exam content will be replaced by open book assessment):

2019-20 Module (credits)	Assessment 1	Assessment 2	Assessment 3	Assessment 4
MChem Research Training (15)	Literature review (80%)	Research proposal (20%)		
MChem Research Project (60)	Dissertation (50%)	Laboratory diary (20%)	Oral exam (20%)	Poster (10%)
Applied Chemistry Topics (30)	Exam (60%)	Spectroscopy portfolio (40%)		
Research Chemistry Topics (15)	Exam (100%)			

2020-21 Modules (credits)	Assessment 1	Assessment 2	Assessment 3	Assessment 4
MChem Research Training (30)	Spectroscopy portfolio (40%)	Research proposal (10%)	Laboratory diary (35%)	Poster (15%)
MChem Research Project (60)	Dissertation (60%)	Literature review (25%)	Oral exam (15%)	
Advanced Topics for Chemistry and Medicinal Chemistry (30)	Exam (100%)			

MChem Chemistry with Medicinal Chemistry combinations:

The MChem final year has been reconfigured to provide the flexibility needed to complete the research project. All modules will now run throughout the length of the year:

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
MChem Research Training	CHE-40022	15	1-2	Removed
MChem Medicinal Chemistry Research Project	CHE-40034	60	1-2	Unchanged
Applied Chemistry Topics for Medicinal Chemistry	CHE-40035	30	1	Removed
Research Chemistry Topics for Medicinal Chemistry	CHE-40036	15	2	Removed
Advanced Topics in Chemistry and Medicinal Chemistry	CHE-40048	30	1-2	Added
MChem Research Training	CHE-40050	30	1-2	Added

Optional modules	Module Code	Credits	Semester	
N/A				

Although the content of the year remains unchanged, the assessments have been redistributed as shown in the two tables below (as noted above the exam content will be replaced by open book assessment):

2019-20 Module (credits)	Assessment 1	Assessment 2	Assessment 3	Assessment 4
MChem Research Training (15)	Literature review (80%)	Research proposal (20%)		
MChem Medicinal Chemistry Research Project (60)	Dissertation (50%)	Laboratory diary (20%)	Oral exam (20%)	Poster (10%)
Applied Chemistry Topics for Medicinal Chemistry (30)	Exam (60%)	Spectroscopy portfolio (40%)		
Research Chemistry Topics for Medicinal Chemistry (15)	Exam (100%)			

2020-21 Modules (credits)	Assessment 1	Assessment 2	Assessment 3	Assessment 4
MChem Research Training (30)	Spectroscopy portfolio (40%)	Research proposal (10%)	Laboratory diary (35%)	Poster (15%)
MChem Medicinal Chemistry Research Project (60)	Dissertation (60%)	Literature review (25%)	Oral exam (15%)	
Advanced Topics for Chemistry and Medicinal Chemistry (30)	Exam (100%)			

For further information on the content of modules currently offered, including the list of elective modules, please visit: <https://www.keele.ac.uk/recordsandexams/modulecatalogue/>

The module selection website can be accessed here: <https://www.keele.ac.uk/modules/>