

# Addendum to the Programme Specification

## 8423 5017 7005 MChem Chemistry with Year Long Industry Experience

This Addendum has been produced to highlight the key changes made to the existing Programme Specification as a result of the University's response to the Covid-19 Pandemic. You should read it in conjunction with the relevant Programme Specification from the year you started your programme.

[Programme Specification for entry in 2020-21](#)

[Programme Specification for entry in 2019-20](#)

[Programme Specification for entry in 2018-19](#)

### University level information

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In view of COVID-19, the University has had to make changes to some elements of programme delivery for 2020-21. These changes have included the method of delivery, such as face-to-face and online, and the number of modules available.

The University aims to provide as much of a face-to-face component to your education as prevailing conditions at the time allow, combined with its new blended approach that will develop active independent and group online learning.

As the COVID-19 pandemic develops, the University's response to this and other issues may likewise need to evolve. The University will consult with student representatives as necessary and appropriate and will communicate changes to you as soon as practicable so that you have the information you need to understand how a change may impact you and what steps you need to take next. The University remains committed to supporting you as you learn.

### Programme Information

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Lab work, delivered through set practicals or projects, remain a compulsory part of the programme but will be offered in line with current social distancing and local and international guidelines. That will result in some changes in the way in which these activities are scheduled, with knock-on effects on scheduling of other activities including some modules offered in a different semester. Some optional modules will not be available in the coming year, although we have endeavoured to provide as much of the usual choice as we can do.

### Programme Structure

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Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note that, in some instances, modules have limited spaces available.

**Programme:** MChem Chem w Year-Long Ind Exp - 8423

**Term:** 2020-2021 Academic Session (202021)

**Area title:** 8423-1 - MChem Chem w Yr Ind Exp Part 1

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">CHEM 1031</a>	Fundamentals of Org Chemistry I	15	Yes	Semester 1
<a href="#">CHEM 1032</a>	Fundamentals of Org Chemistry II	15	Yes	Semester 2
<a href="#">CHEM 1033</a>	Fundamentals of Phys Chemistry I	15	Yes	Semester 1
<a href="#">CHEM 1034</a>	Fundamentals of Phys Chemistry II	15	Yes	Semester 2
<a href="#">CHEM 1035</a>	Fundamentals of Inorg Chemistry I	15	Yes	Semester 1
<a href="#">CHEM 1036</a>	Fundamentals of Inorg Chemistry II	15	Yes	Semester 2

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<b>Select 30 credits</b>  <b>To study a module that is not listed below, please check you have met any prerequisite learning and enquire with the student office team at chem-studentoffice@soton.ac.uk</b>		
Rule 1 GROUP 1	<b>Select 15 Semester 1 credits</b>  <b>PHYS1005 requires an A-level Grade C or above in maths and physics</b>		
<a href="#">CHEM 1047</a>	Mathematical Methods in Chemistry I	15	Semester 1
<a href="#">LANG XX15</a>	Language Module	15	<a href="#">Show Electives</a>
<a href="#">PHYS 1005</a>	Introduction to Astronomy and Space Science	15	Semester 2
<a href="#">SOES 1008</a>	Earth and Ocean System	15	Semester 1
Rule 1 GROUP 2	<b>Select 15 Semester 2 credits</b>		
<a href="#">CHEM 2024</a>	Mathematical Methods in Chemistry II	15	Semester 2

<a href="#">LANG XX15</a>	Language Module	15	<a href="#">Show Electives</a>
<a href="#">SOES 1009</a>	The Living Earth	15	Semester 2

**Programme:** MChem Chem w Year-Long Ind Exp - 8423

**Term:** 2020-2021 Academic Session (202021)

**Area title:** 8423-2 - MChem Chem w Yr Ind Exp Part 2

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">CHEM 2001</a>	Organic Reaction Mechanisms	15	Yes	Semester 1
<a href="#">CHEM 2005</a>	Aspects of Organic Synthesis	15	Yes	Semester 2
<a href="#">CHEM 2012</a>	Change and Equilibrium	15	Yes	Semester 2
<a href="#">CHEM 2013</a>	Atomic & Molecular Interaction	15	Yes	Semester 1
<a href="#">CHEM 2026</a>	Coordination Chemistry	15	Yes	Semester 1
<a href="#">CHEM 2032</a>	Solid State & Organometal Chem	15	Yes	Semester 2

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<b>Select 30 credits</b>		
Rule FULL YEAR	<b>Select 0 to 30 credits</b>		
<a href="#">BIOL 1024</a>	Fundamentals of Biochemistry	30	Full Academic Year
<a href="#">BIOL 1025</a>	Fundamentals of Cell Biology and Physiology	30	Full Academic Year

<a href="#">BIOL 2049</a>	Pharmacology	30	Full Academic Year
Rule SEMESTER 1	<b>Select 0 to 15 credits</b>		
<a href="#">CHEM 1047</a>	Mathematical Methods in Chemistry I	15	Semester 1
<a href="#">CHEM 2025</a>	Introduction to Programming	15	Semester 1
<a href="#">NATS 2002</a>	Editing life: genetic engineering and synthetic biology	15	Semester 1
<a href="#">SOES 1005</a>	Introduction to Ocean Biogeochemistry	15	Semester 1
<a href="#">SOES 2003</a>	Geohazards and Earth Resources	15	Semester 1
Rule SEMESTER 2	<b>Select 0 to 15 credits</b>		
<a href="#">CHEM 1057</a>	Analytical Chemistry	15	Semester 2
<a href="#">CHEM 2010</a>	Organic Chemistry in the Environment	15	Semester 2
<a href="#">CHEM 2024</a>	Mathematical Methods in Chemistry II	15	Semester 2
<a href="#">LANG XX15</a>	Language Module	15	<a href="#">Show Electives</a>
<a href="#">NATS 2001</a>	Creating an atmosphere: from pea-soupers to climate change	15	Semester 2
<a href="#">PHYS 2015</a>	Introduction to Energy in The Environment	15	Semester 2
<a href="#">SOES 1009</a>	The Living Earth	15	Semester 2

**Programme:** MChem Chem w Year-Long Ind Exp - 8423

**Term:** 2020-2021 Academic Session (202021)

**Area title:** 8423-3 - MChem Chem w Yr Ind Exp Part 3

Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">CHEM 3012</a>	Chemistry Research Project	30	Yes	Full Academic Year

<a href="#">CHEM 3037</a>	Advanced Inorganic Chemistry	15	Yes	Semester 1
<a href="#">CHEM 3038</a>	Advanced Organic Chemistry	15	Yes	Semester 1
<a href="#">CHEM 3039</a>	Advanced Physical Chemistry	15	Yes	Semester 1

Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<b>Select 45 credits</b>		
Rule 1.1	<b>Select 15 to 45 credits</b>  <b>CHEM3041 is a prerequisite to organic chemistry modules in the final year</b>		
<a href="#">CHEM 3002</a>	Medicinal Chemistry	15	Semester 2
<a href="#">CHEM 3040</a>	Macrocyclic and Bio-inorganic Chemistry	15	Semester 2
<a href="#">CHEM 3041</a>	Synthetic Methods in Organic Chemistry	15	Semester 2
<a href="#">CHEM 3044</a>	Sustainable Chemistry	15	Semester 2
<a href="#">CHEM 3045</a>	Atoms, Molecules and Spins: Quantum Mechanics in Chemistry	15	Semester 2
Rule 1.2	<b>Select 0 to 15 credits</b>  <b>CHEM6144 will become a Level 6 module (CHEM3051) in 2021/22. If you wish to take this module at Level 7, you should do so this year.</b>		
<a href="#">CHEM 6144</a>	Chemistry through the Computational Microscope	15	Semester 2

**Programme:** MChem Chem w Year-Long Ind Exp - 8423

<b>Term:</b>	2020-2021 Academic Session (202021)
<b>Area title:</b>	8423-4 - MChem Chem w Yr Ind Exp Part 4

#### Compulsory Modules

You must complete the following modules:

Module	Module Title	Credit	Core?	Semester/Term
<a href="#">CHEM 6138</a>	Chemical Enterprise & Pro skills	7.5	No	Full Academic Year
<a href="#">CHEM 6139</a>	Masters of Chemistry 1 yr placement	90	No	Full Academic Year
<a href="#">CHEM 6140</a>	Advanced Chemistry-Distance Learning	7.5	No	Full Academic Year

#### Optional Modules

You must choose from the following modules:

Module		Credit	Semester/Term
Rule 1	<b>Select 15 credits</b>		
<a href="#">CHEM 6144</a>	Chemistry through the Computational Microscope	15	Semester 2
<a href="#">CHEM 6145</a>	Supramolecular Chemistry of Functional Molecules and	15	Semester 2
<a href="#">CHEM 6146</a>	X-Ray Crystallographic Techniques, Advanced Main Group	15	Semester 1
<a href="#">CHEM 6147</a>	Advanced Spectroscopy and Applications	15	Semester 1
<a href="#">CHEM 6149</a>	Principles, Techniques and Energy Applications of	15	Semester 2
<a href="#">CHEM 6161</a>	Stereoselective Reactions	15	Semester 1
<a href="#">CHEM 6162</a>	Advanced Chemical Biology	15	Semester 2