

CHEMICAL SCIENCES - CK406

Overview

BSc Degree Outlets

BSc Single Honours

- Chemistry (<https://ucc-ie-public.courseleaf.com/programmes/bscch/>)¹
- Chemistry with Forensic Science (<https://ucc-ie-public.courseleaf.com/programmes/bsccfs/>)²
- Science Education (Chemistry Route only) (<https://ucc-ie-public.courseleaf.com/programmes/bscsed/>) (for students for entered **prior to 2023/24**)³
- Chemical Physics (<https://ucc-ie-public.courseleaf.com/programmes/bsccpy/>)

¹ Students who have not taken higher level mathematics/physics in their Leaving Certificate examination are strongly advised to take Option 1.

² Students wishing to pursue the BSc Chemistry with Forensic Science outlet must take BC1001, BL1002, and MB1003.

³ Students who wish to enter the BSc in Science Education in second year must choose a minimum of **10** credits in biology in first year in order to satisfy the requirements of the Teaching Council.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

First Science Modules

Code	Title	Credits
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Students take **60** credits from one either Option 1 or Option 2 below

Year 1 - Option 1

Students take **60** credits as follows - all listed core modules (**40** credits) and **20** credits of elective modules:

Core Modules

CM1200	Fundamentals of Modern Chemistry Part 1	10
CM1201	Fundamentals of Modern Chemistry Part 2a	10
MA1001	Calculus for Science Part 1	5
MA1002	Calculus for Science Part 2	5
PY1010	Physics for Biological and Chemical Sciences	10

Elective Modules

Students take modules to the value of **20** credits from the following: 20

BC1001	Introduction to Biochemistry and the Biological Basis of Disease (5)
BL1002	Cells, Biomolecules, Genetics and Evolution (5)
BL1004	Physiology and Structure of Plants and Animals (5)
CS1068	Introductory Programming in Python (5)
GL1001	Introduction to Geology (5)
MB1003	Microbiology in Society (5)

Year 1 - Option 2

Students take **60** credits as follows - all listed core modules (**55** credits) and **5** credits of elective modules:

Core Modules

CM1200	Fundamentals of Modern Chemistry Part 1	10
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CM1201	Fundamentals of Modern Chemistry Part 2a	10
AM1053	Introduction to Mathematical Modelling	5
MA1011	Mathematical Methods I	5
MA1012	Mathematical Methods II	5
PY1052	Introductory Physics I	10
PY1053	Introductory Physics II	10

Elective Modules

Students take **5** credits from the following: 5

BL1002	Cells, Biomolecules, Genetics and Evolution (5)
CS1068	Introductory Programming in Python (5)
GL1001	Introduction to Geology (5)
MB1003	Microbiology in Society (5)

Year 2

Select one of the following outlets:

Option 1

Chemistry (<https://ucc-ie-public.courseleaf.com/programmes/bscch/>)¹

Chemistry with Forensic Science (<https://ucc-ie-public.courseleaf.com/programmes/bsccfs/>)²

Science Education (Chemistry Route only) (for students for entered *prior to 2023/24*) (<https://ucc-ie-public.courseleaf.com/programmes/bscsed/>)³

Option 2

Chemistry (<https://ucc-ie-public.courseleaf.com/programmes/bscch/>)¹

Chemical Physics (<https://ucc-ie-public.courseleaf.com/programmes/bsccpy/>)

¹ Students who have not taken higher level mathematics/physics in their Leaving Certificate examination are strongly advised to take Option 1.

² Students wishing to pursue the BSc Chemistry with Forensic Science outlet must take BC1001, BL1002 and MB1003.

³ Students who wish to enter the BSc in Science Education in second year must choose a minimum of **10** credits in biology in first year in order to satisfy the requirements of the Teaching Council.

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.