All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.

A compulsory module is a module which a student is required to study.

Module Number	Module Title	Module Leader	Credits	Semester	
CHY1101	Basic Organic Chemistry	JGK	20	1	2
CHY1102	Fundamentals of Biological and Medicinal Chemistry	EMT	10	1	
CHY1201	Elements of Physical Chemistry	BRH	20		2
CHY1202	Fundamentals of Chemistry	AHa	10	1	
CHY1301	Structural and Inorganic Chemistry	RAH	20	1	2
CHY1401	Data Handling in Chemistry	RAH	20		2
CHY2001	Group Assignment in Chemistry or Medicinal Chemistry	JGK	20	1	2
CHY2003	Topics in Chemistry	EMT	10	1	
CHY2101	Organic Chemistry	DAF	20	1	2
CHY2102	Bioactive Natural Products	MAC	10		2
CHY2103	Medicinal Chemistry and Drug Design	CC	10	1	
CHY2201	Physical Chemistry	BRH	20		2
CHY2301	Inorganic Chemistry	KJI	20	1	2
CHY2401	Structural Chemistry	ACB	20	1	
CHY3001	Advanced Practical Chemistry	SD	40	1	2
CHY3003	Chemistry Project	CB	20	1	
CHY3004	Chemistry Project	CB	20		2
CHY3006	Chemistry Project	CB	20	1	2
CHY3007	Chemical Biology	EMT	10		2
CHY3101	Advanced Organic Chemistry	MJH	20	1	2
CHY3102	Chemical Toxicology	CB	10	1	
CHY3103	Chemotherapy	RJG	10		2
CHY3105	Advanced Organic Chemistry (DL)	MJH	20	1	2
CHY3201	Advanced Physical Chemistry	AHa	20	1	
CHY3301	Advanced Inorganic Chemistry	AHo	20		2
CHY3305	Advanced Inorganic Chemistry (DL)	AHo	20	1	2
CHY3401	Problem Solving A	RAH	10	1	
CHY3402	Problem Solving B	RAH	10		2
CHY8310	Research Project in Industry	JGK	80	1	2
CHY8311	Research Project	JGK	80	1	2
CHY8410	Research Preparation	CB	10	1	
CHY8411	Research Project (60)	JGK	60	1	2
Module	**Module Title**	**Module**			

Number		Leader	Credits	Semester	
CHY8412	Research Project (40)	JGK	40	1	2
CHY8420	Organic Synthesis for Drug Targets	JGK	10		2
CHY8421	Advanced Methods in Drug Discovery	IRH	10	1	
CHY8422	Further Inorganic Chemistry	MJH	10	1	
CHY8423	Advanced Topics in Contemporary Physical Chemistry	AHa	10		2
CHY8424	Catalyst Application and Design	SD	10	1	
CHY8425	Further Inorganic Chemistry	KJI	10		2
CHY8426	Functional Molecules	AHa	10		2
CHY8430	Advanced Problem Solving	JGK	10		2

STAGE 1

All students should:

- take 120 credits which are normally divided 60:60 over the two semesters although 50:70 and 70:50 distributions are permissible.
- note that their stage 1 module choices are dependent on the degree programme being studied.
- seek approval from the degree programme director if they wish to take other modules that are not listed as options for them.

Module choices for students doing the following degree programmes:

F100 BSc Chemistry
F102 BSc Chemistry with Industrial Training
F103 MChem in Chemistry
F105 MChem Chemistry with Study in North America
F106 MChem in Chemistry with Industrial Training
F122 BSc Chemistry with Medicinal Chemistry with Industrial Training
F123 MChem Chemistry with Medicinal Chemistry
F124 MChem Chemistry with Medicinal Chemistry with Industrial Training
F151 BSc Chemistry with Medicinal Chemistry

- All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
CHY1101	Basic Organic Chemistry	20	10	10
CHY1102	Fundamentals of Biological and Medicinal Chemistry	10	10	
CHY1201	Elements of Physical Chemistry	20		20
CHY1202	Fundamentals of Chemistry	10	10	
CHY1301	Structural and Inorganic Chemistry	20	10	10
CHY1401	Data Handling in Chemistry	20		20

- All candidates who **do not** have A level Mathematics at grade C or above shall take the following modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
SFY0001	Basic Mathematics	10	10	
SFY0003	Foundation Mathematics 1	10	10	

- All candidates who do have A level Mathematics at grade C or above shall take 20 credits of modules from the following options:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
Option 1				
BIO1001	Cell Biology 1	10	10	
BIO1004	Microbiology 1	10	10	
Option 2				
PHY1001	Fundamental Physics IA	20	10	10
Option 3				
ACC1004	Core Skills for Accounting and Finance	10	5	5
PHI1006	Our View of the Universe	10	10	

Module choices for students doing the following degree programme:

F107 MChem Chemistry with Study in Europe

- All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
CHY1101	Basic Organic Chemistry	20	10	10
CHY1102	Fundamentals of Biological and Medicinal Chemistry	10	10	
CHY1201	Elements of Physical Chemistry	20		20
CHY1202	Fundamentals of Chemistry	10	10	
CHY1301	Structural and Inorganic Chemistry	20	10	10

- All candidates shall take 20 credits of language training in French, German or Spanish from the modules on offer, to be chosen on the basis of their previous experience in the language, with the approval of the Degree Programme Director. The optional modules will normally be selected from the following list:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
FRE1066	Level A French General Language II	20		20
GER1063	Level A German General Language II	20		20
SPA1066	Level A Spanish General Language II	20		20

- All candidates who **do not** have A level Mathematics at grade C or above shall take the following modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
SFY0001	Basic Mathematics	10	10	
SFY0003	Foundation Mathematics 1	10	10	

- All candidates who do have A level Mathematics at grade C or above shall take 20 credits of modules from the following options:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
Option 1				
BIO1001	Cell Biology 1	10	10	
BIO1004	Microbiology 1	10	10	
Option 2				
PHY1001	Fundamental Physics IA	20	10	10
Option 3				
ACC1004	Core Skills for Accounting and Finance	10	5	5
PHI1006	Our View of the Universe	10	10	

Module choices for students doing the following degree programme:

F1N2 BSc Chemistry with Management

- All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
BUS1001	Introduction to Management and Organisation	20	10	10
BUS1005	Personal, Professional and Key Skills Development	20	10	10
CHY1101	Basic Organic Chemistry	20	10	10
CHY1201	Elements of Physical Chemistry	20		20
CHY1301	Structural and Inorganic Chemistry	20	10	10

- All candidates who **do not** have A level Mathematics at grade C or above shall take the following modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
SFY0001	Basic Mathematics	10	10	
SFY0003	Foundation Mathematics 1	10	10	

- All candidates who do have A level Mathematics at grade C or above shall take the following modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*
CHY1202	Fundamentals of Chemistry	10	10	
CHY1102	Fundamentals of Biological and Medicinal Chemistry	10	10	