FACULTY OF SCIENCE

DEPARTMENT OF PURE AND APPLIED CHEMISTRY

CHEMISTRY WITH DRUG DISCOVERY

Master of Chemistry in Chemistry with Drug Discovery
Bachelor of Science with Honours in Chemistry with Drug Discovery
Bachelor of Science with Honours in Chemistry (Professional Experience)
Bachelor of Science with Chemistry
Diploma of Higher Education in Chemical Sciences
Certificate of Higher Education in Chemical Sciences

These regulations are to be read in conjunction with General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.

Place of Study
1. The MChem programme includes an Industrial Placement normally outwith the campus.

Curriculum
2. **First Year** - All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
BM109	Cells and Their Molecules	1	20
CH106	Chemistry: Principles and Practice 1	1	20
CH107	Chemistry: Principles and Practice 2	1	20
CH108	Practical and Transferable	1	20
MM116	Mathematics 1C *	1	20

*Or in exceptional circumstances alternative mathematics module(s) approved by the programme director.

Optional Modules
No fewer than 20 credits chosen from:

Module Code	Module Title	Level	Credits
CH116	Foundation Science: Big Ideas for Chemists *	1	20
Or			
	Elective Module(s)		20

*Students without Physics at Higher (or equivalent) grade B or above must select CH116.

3. **Second Year** - All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
CH202	Inorganic Chemistry	2	20
CH205	Practical Physical and Applied Chemistry	2	20
CH208	Fundamental Organic Chemistry	2	20
CH212	Physical Chemistry 1	2	20
CH214	Practical Organic and Inorganic Chemistry	2	20
MP217	Pharmaceutics	2	20

4. **Third Year** - All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
CH309	Physical Chemistry 2	3	20
CH314	Practical Physical, Applied and Drug Discovery Chemistry	3	20
CH315	Practical Organic and Inorganic Chemistry	3	20
CH323	Chemical Biology	3	20
CH325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH326	Inorganic Chemistry, Structures and Spectroscopy	3	20

5. **Fourth Year** - All students shall normally undertake modules amounting to 120 credits as follows:

MChem Drug Discovery

Compulsory Modules

Module Code	Module Title	Level	Credits
CH450	Distance Learning Assignment	4	40
And either			
CH451	Industrial Placement	4	80
Or			
CH452	Research Placement	4	80

Or			
CH462	Knowledge Exchange Placement	4	80

BSc Hons Drug Discovery

Compulsory Modules

Module Code	Module Title	Level	Credits
CH473	BSc with Honours in Chemistry with Drug Discovery	4	120

CH 473 comprises:

Module Code	Module Title	Level	Credits
CH479	Core Topics in Chemistry	4	20
CH436	Honours Project and Dissertation	4	40
CH437	Career Skills	4	20
CH482	Drug Discovery Specialisation Topics	4	40

6. **Fifth Year** - All students shall undertake modules amounting to no fewer than 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
CH586	Chemistry with Drug Discovery	5	120

CH 586 comprises:

Module Code	Module Title	Level	Credits
CH589	Core Chemistry Topics in Drug Discovery	5	20
CH542	Drug Discovery Specialisation	5	40
CH592	MChem Project, Dissertation and Presentation	5	60

Curriculum (Part-time study)

7. Part-time students will normally take modules amounting to 60 credits in each year of study.

Progress

8. In order to progress to the second year of the programme in addition to satisfying the requirements of the General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level a student must also gain non-compensated passes in the following modules: CH106 Chemistry: Principles and Practice

1, CH107 Chemistry: Principles and Practice 2 and CH108 Practical and Transferable Skills.

9. In order to progress to the third year of the programme, the General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level shall apply.

10. In order to progress to the fourth year of the programme, the General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level shall apply.

11. In order to progress to the fifth year of the programme, the General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level shall apply.

Final Assessment and Classification

12. On successful completion of the fourth year, a BSc Hons Chemistry with Drug Discovery candidate will be awarded 120 Level 4 credits under the module code CH473.

13. On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the module code CH586.

14. The final classification for the degree of MChem will be based on the first assessed attempt at compulsory and specified optional modules taken in the third, fourth and fifth years.

Award

15. **MChem:** In order to qualify for the award of the degree of MChem in Chemistry with Drug Discovery, see General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.

16. **BSc Honours:** In order to qualify for the award of the degree of BSc Honours in Chemistry with Drug Discovery, see General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.

17. **BSc Honours in Chemistry (Professional Experience):** Students who have achieved 480 credits including modules CH450 and CH451 or CH452 or CH462 by the end of Year 4 and have not progressed to Year 5 (due to voluntary withdrawal) are eligible for the award of BSc Honours in Chemistry (Professional Experience).

18. **BSc:** In order to qualify for the award of the degree of BSc in Chemistry, see General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.

19. **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Chemical Sciences, see General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.

20. **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Chemical Sciences, see General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.

Transfer

21. A student who fails to satisfy the progress or award requirements for the degree of MChem may be transferred to the BSc with Honours in Chemistry with Drug Discovery.