

BIOCHEMISTRY (THESIS) (M.SC.) (45 CREDITS)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Biochemistry focuses on the chemistry, structure and function of biological molecules through seminars, courses and a major part of work in a research laboratory.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
BIOC 697	Thesis Research 1.	9
BIOC 698	Thesis Research 2.	12
BIOC 699	Thesis Research 3.	15

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
BIOC 696D1	Seminars in Biochemistry. ¹	1.5
BIOC 696D2	Seminars in Biochemistry. ¹	1.5
BIOC 696N1	Seminars in Biochemistry. ¹	1.5
BIOC 696N2	Seminars in Biochemistry. ¹	1.5

¹ Students choose either BIOC 696D1/D2 or BIOC 696N1/N2.

Complementary Courses (6 credits)

¹ Complementary courses are chosen in consultation with the Research Director.

At least 3 credits must be chosen from the following:

Expand allContract all

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
EXMD 615	Essentials of Glycobiology.	3

EXMD 635D1	Experimental/Clinical Oncology.	3
EXMD 635D2	Experimental/Clinical Oncology.	3

0-3 credits, at the 500 level or higher in biomedical and allied sciences.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 Protein Structure and Function. and BIOC 454 Nucleic Acids. are additional requirements for those who have not previously completed equivalent courses in their prior training.