

# Biochemistry

This section presents the requirements for programs in:

- M.Sc. Biology with Collaborative Specialization in Biochemistry
- M.Sc. Chemistry with Collaborative Specialization in Biochemistry
- Ph.D. Biology with Collaborative Specialization in Biochemistry
- Ph.D. Chemistry with Collaborative Specialization in Biochemistry

## M.Sc. Biology with Collaborative Specialization in Biochemistry (5.0 credits)

### Requirements:

<b>1. 1.0 credits in:</b>	1.0
BIOL 5002 [0.5] Seminar in Biochemistry I	
BIOL 5004 [0.5] Advances in Applied Biochemistry	
<b>4. 4.0 credits in:</b>	4.0
BIOL 5909 [4.0] M.Sc. Thesis (in the specialization)	
<b>Total Credits</b>	<b>5.0</b>

## M.Sc. Chemistry with Collaborative Specialization in Biochemistry (5.0 credits)

### Requirements:

<b>1. 1.0 credit in:</b>	1.0
CHEM 5800 [0.5] Seminar in Biochemistry I	
CHEM 5806 [0.5] Advances in Applied Biochemistry	
<b>2. 1.0 credit in:</b>	1.0
CHEM 5801 [1.0] Seminar I	
<b>3. 3.0 credits in:</b>	3.0
CHEM 5909 [3.0] M.Sc. Thesis (in the Specialization)	
<b>Total Credits</b>	<b>5.0</b>

## Ph.D. Biology with Collaborative Specialization in Biochemistry (10.0 credits)

### Requirements:

<b>1. 1.0 credit in:</b>	1.0
BIOL 6102 [0.5] Seminar in Biochemistry II	
BIOL 5004 [0.5] Advances in Applied Biochemistry	
<b>3. 9.0 credits in:</b>	9.0
BIOL 6909 [9.0] Ph.D. Thesis (in the specialization)	
<b>Total Credits</b>	<b>10.0</b>

## Ph.D. Chemistry with Collaborative Specialization in Biochemistry (10.0 credits)

### Requirements:

<b>1. 1.0 credit in:</b>	1.0
CHEM 5806 [0.5] Advances in Applied Biochemistry	
CHEM 6800 [0.5] Seminar in Biochemistry II	
<b>2. 2.0 credits in:</b>	2.0
CHEM 5801 [1.0] Seminar I	

CHEM 5802 [1.0] Seminar II	
<b>3. 1.0 credit in graduate courses</b>	<b>1.0</b>
4. A two-part comprehensive in Chemistry (see Note below).	0.0
<b>5. 6.0 credits in:</b>	<b>6.0</b>
CHEM 6909 [6.0] Ph.D. Thesis (in the specialization)	
<b>6. At least three years of full-time study</b>	
<b>Total Credits</b>	<b>10.0</b>

Comprehensive examination Part 1 examines the depth and breadth of knowledge in the student's own research area.

Comprehensive examination Part 2 will involve the submission of a research proposal that is both novel and of a sound scientific basis that may be loosely related to the thesis research of the student but not a topic that the student has investigated in any manner. The research proposal will be submitted to a committee for oral defense.

Failure to pass either part of the comprehensive examination will result in deregistration from the graduate program.

## Regulations

See the General Regulations section of this Calendar, and the regulations pertaining to the participating units offering this specialization.