### 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:**

1. **1.0 credits in:**
   - BIOL 5002 [0.5] Seminar in Biochemistry I
   - BIOL 5004 [0.5] Advances in Applied Biochemistry

2. **4.0 credits in:**

Total Credits 5.0

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

**Requirements:**

1. **1.0 credit in:**
   - CHEM 5800 [0.5] Seminar in Biochemistry I
   - CHEM 5806 [0.5] Advances in Applied Biochemistry

2. **1.0 credit in:**
   - CHEM 5801 [1.0] Seminar I

3. **3.0 credits in:**

Total Credits 5.0

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

**Requirements:**

1. **1.0 credit in:**
   - BIOL 6102 [0.5] Seminar in Biochemistry II
   - BIOL 5004 [0.5] Advances in Applied Biochemistry

3. **9.0 credits in:**
   - BIOL 6909 [9.0] Ph.D. Thesis (in the specialization)

Total Credits 10.0

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

**Requirements:**

1. **1.0 credit in:**
   - CHEM 5806 [0.5] Advances in Applied Biochemistry
   - CHEM 6800 [0.5] Seminar in Biochemistry II

2. **2.0 credits in:**
   - CHEM 5801 [1.0] Seminar I

3. **1.0 credit in:**
   - CHEM 5806 [0.5] Advances in Applied Biochemistry

4. A two-part comprehensive in Chemistry (see Note below).

5. **6.0 credits in:**
   - CHEM 6909 [6.0] Ph.D. Thesis (in the specialization)

6. At least three years of full-time study

Total Credits 10.0

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 the the participating units offering this specialization.