Eligibility

Students must be pursuing one of the following undergraduate degrees:

- BS Biology
- BS Biochemistry
- BS Biotechnology
- BS Cell and Molecular Biology
- BS Chemistry

A minimum cumulative 3.000 GPA is required.

COURSE PREREQUISITES

BS Biology
- BS Biochemistry
- BS Cell and Molecular Biology
  - BIOL 3611/3612 Biochemistry
  - BIOL 2301/2302 Genetics and Molecular Biology
  - CHEM 2313/2314 Organic Chemistry

BS Chemistry
- CHEM 2317/2318 Organic Chemistry
  2 for Majors
- CHEM 2331 Bioanalytical Chemistry

CO-OP PREREQUISITES

- A total of two co-ops are required prior to completing the undergraduate degree.
- At least one co-op in the biotechnology/biopharmaceutical industry or an academic laboratory involved in regenerative biology or basic biological research is required prior to applying.

Curriculum Requirements

A maximum of 17 graduate credits completed as an undergraduate can be used toward the Master of Science degree.

A fixed series of prescribed courses taken as an undergraduate (see below) replaces some of the required courses and science electives taken for the Bachelor of Science degree.
REQUIRED COURSES TO COMPLETE AS AN UNDERGRADUATE STUDENT

**BS Biology**

**BS Biochemistry**

**BS Cell and Molecular Biology**
- BIOL 4707 Cell & Molecular Biology (4 SH) (this undergraduate course replaces the requirement but not the credits for the 3-credit graduate version BIOT 5750)
- BIOT 5621 Protein Principles in Biotechnology (3 SH)
- BIOL 5591 Advanced Genomics (4 SH)
- BIOT 5120 Foundations in Biotechnology (3 SH)
- BIOT 5401 Scientific Communication (3 SH)
- BIOT 5219 The Biotech Enterprise (2 SH)
- BIOT 6214 Experimental Design and Biostatistics (2 SH)

**BS Biotechnology (CPS)**
- BIOT 5120 Foundations in Biotechnology (3 SH)
- BIOT 5401 Scientific Communication (3 SH)
- BIOT 5219 The Biotech Enterprise (2 SH)
- BIOT 5145 Basic Biotech Lab Skills (1 SH) or if waived via the pre-test a 1 SH elective such as BIOT 5220 Patents in the Biotech Industry
- BIOT 5621 Protein Principles in Biotechnology (3 SH)
- BIOT 5750 Molecular Approaches in Biotechnology (3 SH)
- BIOT 6214 Experimental Design and Biostatistics (2 SH)
- INT 2000 Experiential Project Preparation (0 SH) or BIOT 6500 Professional Development for Co-op (0 SH)

**BS Chemistry**
- BIOT 5120 Foundations in Biotechnology (3 SH)
- BIOT 5401 Scientific Communication (3 SH)
- BIOT 5219 The Biotech Enterprise (2 SH)
- BIOT 5145 Basic Biotech Lab Skills (1 SH) or if waived via the pre-test a 1 SH elective such as BIOT 5220 Patents in the Biotech Industry
- BIOT 5621 Protein Principles in Biotechnology (3 SH)
- BIOT 5750 Molecular Approaches in Biotechnology
- BIOT 6214 Experimental Design and Biostatistics (2 SH)

**REQUIRED COURSES TO COMPLETE AS GRADUATE STUDENT**

Once you complete the undergraduate degree you become a full-time graduate student, enrolling in the same courses (17 credits) as other second year graduate students in the MS in Biotechnology program, including BIOT 6500 Professional Development for Co-op and BIOT 6964 Co-op Work Experience. A minimum of 34 graduate credits are required to complete Master of Science degree.

**Other Information**

PlusOne students meet with the graduate co-op coordinator within one month of starting the program in order to plan the timing of the graduate co-op.

Questions? Contact Graduate Student Services at COSGradAdmissions@northeastern.edu or 617.373.4275