

PlusOne Programs

MS Biotechnology

Northeastern University
College of Science

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

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 on the next page) replaces some of the required courses and science electives taken for the Bachelor of Science degree.

Scan for
application
requirements



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 graduate courses BIOT 5750 (3 SH) and BIOT 5145 (1 SH).
- 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 EESC 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 EESC 6500 Professional Development for Co-op and EESC 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.