

PlusOne Programs

MS Cell and Gene Therapies

Northeastern University
College of Science

Eligibility

Students must be pursuing one of the following undergraduate degrees:

- BS Biochemistry
- BS Biology
- BS Biology and English
- BS Biology and Mathematics
- BS Biology and Political Science
- BS Biological Sciences (CPS)
- BS Biotechnology (CPS)
- BS Behavioral Neuroscience
- BS Behavioral Neuroscience and Design
- BS Behavioral Neuroscience and Philosophy
- BS Cell and Molecular Biology
- BS Computer Science and Biology
- BS Data Science and Biology

A minimum cumulative 3.000 GPA is required.

COURSE PREREQUISITES (CPS)

- BS Biological Sciences
 - BIO 3100 Biochemistry
 - BIO 2500 Genetics and Molecular Biology
- BS Biotechnology

Curriculum Requirements

A minimum of 32 graduate credits are required to complete a Master of Science degree.

REQUIRED COURSES TO COMPLETE AS AN UNDERGRADUATE STUDENT

- BIOL 5821 Cell and Gene Therapies (4 SH)
- BIOL 5583 Immunology (4 SH)
- BIOL 5543 Stem Cells and Regeneration (4SH)
- INT 2000 Experiential Project Preparation (0 SH) (Optional)
- One of these courses:
 - BIOL 5591 Advanced Genomics (4 SH)
 - BIOL 5595 Cell and Molecular Neuroscience (4 SH)
 - *BINF 6200 Bioinformatics Programming (4 SH)

REQUIRED COURSES TO COMPLETE AS A GRADUATE STUDENT

- BIOT 5830 Regulatory Landscape of Cell and Gene Therapies (2 SH)
- BIOT 5840 Cell and Gene Therapy Lab (3 SH)
- BIOL 6381 Ethics in Biological Research (2 SH)
- BIOT 5630 Cell Culture Applications (2 SH)
- PMST 6254 Advanced Drug Delivery Systems (3 SH)
- EESC 6500 Professional Development for Co-op (OSH) (If the student had not taken the Co-op prep course as part of their undergraduate program).
- *BINF 6200 Bioinformatics Programming (4 SH) OR a minimum of 4 SH from the elective list.
- EESC 6964 Co-op Work Experience

**BINF 6200 is required to complete the MS in Cell and Gene Therapies degree.*

CO-OP

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.

Scan for
application
requirements

