

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 5583: Immunology (4 SH)
- BIOL 5821: Cell and Gene Therapies (4 SH)
- BIOT 5840: Cell and Gene Therapy Lab (3 SH)
 - *BIOT 5840 cannot be taken before BIOL 5821. BIOT 5840 must be taken either after or concurrently with BIOL 5821*
- EITHER EESC 6500: Pathways to Professional Success (1 SH) OR Elective (1 SH)*

One of these courses:

- BIOL 5543: Stem Cells and Regeneration (4 SH)
- BIOL 5591: Advanced Genomics (4 SH)
- BIOL 5595: Cell and Molecular Neuroscience (4 SH)

REQUIRED COURSES TO COMPLETE AS A GRADUATE STUDENT

- BIOL 5543: Stem Cells and Regeneration (4 SH) (or Elective Course/s if 5543 was taken as UG student)
- PMST 6254: Advanced Drug Delivery Systems (3 SH)
- BIOT 5830: Regulatory Landscape of Cell and Gene Therapies (2 SH)
- BINF 6200: Bioinformatics Programming (4 SH) or BIOL 6216: Applied Bioinformatics (4 SH)
- BIOL 6381: Ethics in Biological Research (2 SH)
- Elective (1 SH) OR EESC 6500 (1 SH)**

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.

**If completing EESC 6500 during undergraduate degree, can only be completed in final two semesters*

***If not completed as an undergraduate*

***If completing EESC 6500 during graduate degree, can only be completed in first semester*

Scan for
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requirements

