

TRANSLATIONAL RESEARCH: TRANSLATIONAL SCIENCE, CERTIFICATE

Penn offers three certificates in Translational Research: the Certificate in Translational Science, the Certificate in Entrepreneurial Science, or the Certificate in Regulatory Science. The Certificate in Translational Science aims to develop a strong foundation in the fundamental techniques of translational research.

The certificate can be finished in one year and must be completed within two years.

For more information: <http://www.itmat.upenn.edu/certificate/>

Curriculum

The certificate requires the completion of 4 course units with a passing grade of B- or better.

| First Year | | Course Units |
|--|--|--------------------------|
| Fall | | |
| MTR 5100 | Introduction to Clinical and Translational Research | 1 |
| MTR 6000 | Introduction to Biostatistics 1 | 1 |
| | | Course Units 2.00 |
| Spring | | |
| Select 2 electives from the following: | | 2 |
| MTR 6040 | Scientific & Ethical Conduct | |
| MTR 6200 | Medical Entrepreneurial Commercial Translational Science | |
| MTR 5350 | Introduction to Bioinformatics | |
| REG 6100 | Fundamentals of FDA Regulation | |
| REG 6110 | Clinical Trial Management | |
| REG 6120 | Introduction to Drug Development | |
| REG 6210 | Cell and Gene Therapy | |
| REG 6220 | New Trends in Medicine and Vaccine Discovery | |

| Other Electives ² | |
|------------------------------|-------------|
| Course Units | 2.00 |
| Total Course Units | 4.00 |

- ¹ Other biostatistics courses may be substituted if taken in the past two years with a grade of B- or better.
- ² Students may take elective courses outside of these recommendations, by substituting a different MTR/REG course or a course outside of MTR/REG, but must obtain permission before enrolling.

Research Project

The certificate requires a one-year engagement in clinical and translational research. This will take the form of a new research project or as a translational arm to research currently being conducted. Prospective students will identify a mentor and define the research project at the time of application.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2023 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.