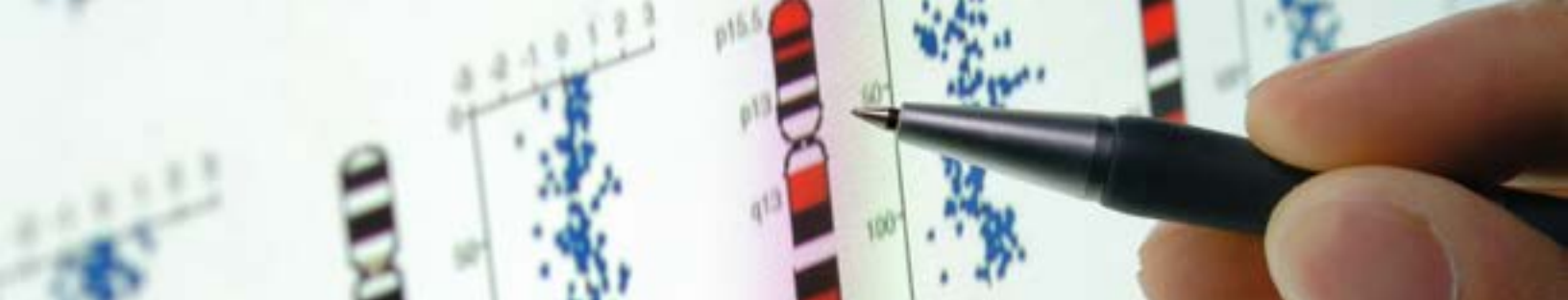




**Boston University** School of Medicine  
Graduate Medical Sciences



# **MASTER OF SCIENCE IN CLINICAL INVESTIGATION**



## MASTER OF SCIENCE IN CLINICAL INVESTIGATION



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### Program Highlights:

- The program covers all aspects of clinical investigation including designing research studies, good clinical practice, actively managing patient-based research, biostatistics and data analysis, as well as regulatory and compliance issues
- The program requires 32 credits of course work, a practicum and a research thesis
- Courses are offered through the Graduate Medical Sciences Division and delivered at BU's School of Medicine
- Students can choose practicum experiences (a minimum of 240 hours of hands-on, field-based learning), from a broad range of academic and industry settings
- Coursework emphasizes practical, applied learning. Faculty, all of whom are active practitioners in the field, share real world case histories, and there is a significant amount of group work, modeling the collaborative nature of clinical research
- Full-time students have the opportunity to complete the program in one academic year including summer. However, most full time students complete the program in 18 - 24 months, while part-time students have up to five years to complete the components required for the degree
- The degree is awarded by the Division of Graduate Medical Sciences at Boston University School of Medicine

### Program Overview

The Master of Science in Clinical Investigation trains individuals to fill the increasing demand for professionals at academic institutions and in the biotechnology, pharmaceutical and medical device industries who are capable of translating laboratory-based discoveries into research with human subjects. Graduates are well prepared to develop study protocols, work directly with patients, interpret data, and train and educate others in the field.

Program graduates are qualified to sit for several of the clinical research certification exams offered by the Association of Clinical Research Professionals (ACRP) and the Academy of Pharmaceutical Physicians and Investigators.



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### CURRICULUM

#### Required Courses:

|                                     |           |
|-------------------------------------|-----------|
| Management of Clinical Trials       | 4 credits |
| Regulatory and Compliance Issues    | 4 credits |
| Biostatistics with Computing        | 4 credits |
| Designing Clinical Research Studies | 4 credits |
| Seminar in Clinical Investigation   | 2 credits |

#### Elective Courses:

|   |           |
|---|-----------|
| Good Clinical Practices in Clinical Research  | 4 credits |
| Ethical Issues in Clinical Research   | 2 credits |
| Applied Regression Analysis with Computing  | 3 credits |
| Professionalism and Thesis Development  | 2 credits |
| Directed Studies in Clinical Investigation  | 2 credits |
| Thesis Research in Clinical Investigation   | 2 credits |
| Bench to Bedside: Translating Biomedical<br>Innovation from Laboratory to the Marketplace | 4 credits |
| Molecules to Molecular Therapeutics   | 4 credits |
| Introduction to Medical Pharmacology  | 4 credits |
| Advanced General Pharmacology   | 2 credits |
| Drug Discovery and Development  | 2 credits |
| Introduction to Epidemiology  | 3 credits |
| Topics in Biostatistics   | 4 credits |
| The Biotechnology Industry  | 4 credits |

Students may also choose from a wide variety of related elective courses offered through the Division of Graduate Medical Sciences. Students may also choose one elective course from outside of the Division.

## MASTER OF SCIENCE IN CLINICAL INVESTIGATION



### Admissions Criteria

Applicants for admission to the M.S. in Clinical Investigation should:

Meet the requirements for a bachelor's degree from an accredited institution – an undergraduate degree with an academic background that includes science courses is recommended, with a grade point average of 3.0 or higher.

Submit scores from the Graduate Record Examination (GRE) General Test or the Medical College Admissions Test (MCAT). GRE tests should reflect placement in the 70th percentile or above. The average standardized test scores for MCAT are 25-30 for verbal reasoning, biological and physical science tests and "0" for the writing sample. Other tests may be substituted for the GRE with special permission from the Program Director.

Submit the Test of English as a Foreign Language (TOEFL) if native language is not English. Results of the TOEFL must be 550 or higher.

### Application Deadline

We offer rolling admissions and review applications throughout the year. However, it is recommended that you submit your application by March 31 for September admission and October 15 for January admission.

### Application Requirements

A completed application consists of the application, a personal statement, three letters of recommendation, and official transcripts for all colleges and universities attended.

Please go to <https://bu-gms.liaisoncas.com/applicant-ux/#/login> to apply online.

### Interested in Sampling the Program?

Prospective students wishing to sample the program by completing one to two courses as a non-degree student are still required to complete the standard application.

### Program Options Through the Boston University School of Medicine Graduate Medical Sciences Include:

- Part-time / Full-time Option
- MS Medical Sciences / MS in Clinical Investigation (MSMS/MSCI dual degree)
- Doctor of Medicine / MS in Clinical Investigation (MD/MSCI dual degree)
- Campus-Based Graduate Certificate Program
- Online Graduate Certificate Program

### For more information contact:

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