Overview
The Miller School of Medicine Medical Science Training Program (MD-PhD Program) provides a unique training environment for exceptionally qualified individuals pursuing careers combining medicine and research. The curriculum comprises the school's outstanding preclinical and clinical training, rigorous Ph.D. graduate training, and several elements, including professional development workshops, clinical case reviews, MSTP symposium, and other activities designed to provide an integrated research/clinical training experience for M.D./Ph.D. students. There has been a long tradition of research excellence and physician-scientist training at the Miller School of Medicine. With the opportunities for basic, translational, and clinical research here, Miami's diverse population and access to Latin America and the Caribbean, the backdrop of a vibrant city, make the Miller School a unique place for physician-scientist training.

PhD Programs
The following doctoral programs, described elsewhere in this bulletin, participate in the MSTP. The MSTP office can provide you with further information about these programs and the research interests of their faculty.

- Biochemistry & Molecular Biology (http://biomed.med.miami.edu/graduate-programs/biochemistry-and-molecular-biology/)
- Biomedical Engineering (http://bulletin.miami.edu/graduate-academic-programs/engineering/biomedical-engineering/biomedical-engineering-phd/)
- Biostatistics (http://www.biostat.med.miami.edu/academics/phd-in-biostatistics/)
- Cancer Biology (http://biomed.med.miami.edu/graduate-programs/cancer-biology/)
- Cellular Physiology and Molecular Biophysics (http://biomed.med.miami.edu/graduate-programs/physiology-and-biophysics/)
- Epidemiology (http://publichealth.med.miami.edu/graduate-academic-programs/phd-in-epidemiology/)
- Human Genetics & Genomics (http://biomed.med.miami.edu/graduate-programs/human-genetics-and-genomics/)
- Microbiology and Immunology (http://biomed.med.miami.edu/graduate-programs/microbiology-and-immunology/)
- Molecular Cell & Developmental Biology (http://biomed.med.miami.edu/graduate-programs/molecular-cell-and-developmental-biology/)
- Molecular and Cellular Pharmacology (http://biomed.med.miami.edu/graduate-programs/molecular-and-cellular-pharmacology/)
- Neuroscience (http://biomed.med.miami.edu/graduate-programs/neuroscience/)
- Prevention Science & Community Health (http://publichealth.med.miami.edu/graduate/academic-programs/phd-in-prevention-science/)

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Admission Requirements
Admission to the MSTP is highly competitive, and interested applicants are advised to apply early in the fall. AMCAS applications must be received by the Medical Admissions Office no later than December 15. Applicants must complete the minimum course requirements (http://admissions.med.miami.edu/md-programs/general-md/prerequisites/) of the M.D. Program to be considered for the MSTP. The Graduate Record Examination (GRE) is not required for matriculation into the MSTP.

Competitive applicants will have the following:
- Completed AMCAS & Secondary Application for MSTP
- Excellent academic record
Medical Scientist Training Program (MD/PHD)

- Strong MCAT scores
- Significant research experience
- Co-authorship on abstracts and/or peer-reviewed papers is desirable
- Strong letters of recommendation from research mentors and other scientists who can specifically address the applicant's potential as a physician-scientist
- Motivation to pursue a career as a physician-scientist

Applications from under-represented groups, including minorities, individuals with disabilities, and women, are encouraged.

The MD Program Admissions Committee and the MSTP Program Admissions Committee review all MSTP applicants. These evaluations proceed independently, and a student will still be considered for the M.D. program even after an unfavorable review by the MSTP. A successful applicant is granted admission to the M.D. Program and the MSTP.

Full application instructions can be found (http://mdphd.med.miami.edu/Admissions/).

### Curriculum Requirements - Medicine

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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| MD Degree Requirements | Refer to the link below for more information on the MD Dual/Joint Degree Program requirements.  
https://bulletin.miami.edu/graduate-academic-programs/medicine/md/#curriculumtext | 136          |
| PhD Requirements | Refer to the links below for specific information on the individual PhD requirements.  
PhD in Biochemistry and Molecular Biology  
https://bulletin.miami.edu/graduate-academic-programs/medicine/biochemistry-molecular-biology/biochemistry-and-molecular-biology-phd/#curriculumtext | 60           |
| PhD in Biomedical Engineering  
https://bulletin.miami.edu/graduate-academic-programs/engineering/biomedical-engineering/biomedical-engineering-phd/#curriculumtext | 60           |
| PhD in Biostatistics  
https://bulletin.miami.edu/graduate-academic-programs/medicine/biostatistics/biostatistics-phd/#curriculumtext | 60           |
| PhD in Cancer Biology  
https://bulletin.miami.edu/graduate-academic-programs/medicine/cancer-biology/cancer-biology-phd/#curriculumtext | 60           |
| PhD in Cellular Physiology and Molecular Biophysics  
https://bulletin.miami.edu/graduate-academic-programs/medicine/physiology-biophysics/phd (https://bulletin.miami.edu/graduate-academic-programs/medicine/physiology-biophysics/phd/) | 60           |
| PhD in Epidemiology  
https://bulletin.miami.edu/graduate-academic-programs/medicine/public-health/epidemiology-phd/#curriculumtext | 60           |
| PhD in Human Genetics and Genomics  
| PhD in Microbiology and Immunology  
https://bulletin.miami.edu/graduate-academic-programs/medicine/microbiology-immunology/microbiology-and-immunology-phd/#curriculumtext | 60           |
| PhD in Molecular and Cellular Pharmacology  
https://bulletin.miami.edu/graduate-academic-programs/medicine/molecular-cellular-pharmacology/#curriculumtext | 60           |
| PhD in Molecular Cell and Developmental Biology  
https://bulletin.miami.edu/graduate-academic-programs/medicine/molecular-cell-developmental-biology/#curriculumtext | 60           |
| PhD in Neuroscience  
https://bulletin.miami.edu/graduate-academic-programs/medicine/neuroscience/#programplantext | 60           |
| PhD in Prevention Science and Community Health  
https://bulletin.miami.edu/graduate-academic-programs/medicine/public-health/prevention-science-community-health-phd/#curriculumtext | 60           |

Total Credit Hours 196