

# PROGRAMS

## MD Program

- Doctor of Medicine, MD (<http://catalog.upenn.edu/graduate/programs/doctor-medicine-md/>)

## PhD & Research Master's Programs - Biomedical Graduate Studies

- Biochemistry, Biophysics and Chemical Biology, PhD (<http://catalog.upenn.edu/graduate/programs/biochemistry-biophysics-chemical-biology-phd/>)
- Biostatistics, MS (<http://catalog.upenn.edu/graduate/programs/epidemiology-biostatistics-biostatistics-ms/>)
- Cell and Molecular Biology, PhD
  - Cancer Biology (<http://catalog.upenn.edu/graduate/programs/cell-molecular-biology-cancer-biology-phd/>)
  - Cell Biology, Physiology, and Metabolism (<http://catalog.upenn.edu/graduate/programs/cell-molecular-biology-cell-biology-physiology-metabolism-phd/>)
  - Developmental, Stem Cell, and Regenerative Biology (<http://catalog.upenn.edu/graduate/programs/cell-molecular-biology-development-stem-cell-regenerative-biology-phd/>)
  - Gene Therapy and Vaccines (<http://catalog.upenn.edu/graduate/programs/cell-molecular-biology-gene-therapy-vaccines-phd/>)
  - Genetics and Epigenetics (<http://catalog.upenn.edu/graduate/programs/cell-molecular-biology-genetics-epigenetics-phd/>)
  - Microbiology, Virology, and Parasitology (<http://catalog.upenn.edu/graduate/programs/cell-molecular-biology-microbiology-virology-parasitology-phd/>)
- Epidemiology and Biostatistics, PhD
  - Biostatistics (<http://catalog.upenn.edu/graduate/programs/epidemiology-biostatistics-biostatistics-phd/>)
  - Epidemiology (<http://catalog.upenn.edu/graduate/programs/epidemiology-biostatistics-epidemiology-phd/>)
- Genomics and Computational Biology, PhD (<http://catalog.upenn.edu/graduate/programs/genomics-computational-biology-phd/>)
- Immunology, PhD (<http://catalog.upenn.edu/graduate/programs/immunology-phd/>)
- Neuroscience, PhD (<http://catalog.upenn.edu/graduate/programs/neuroscience-phd/>)
- Pharmacology, PhD (<http://catalog.upenn.edu/graduate/programs/pharmacology-phd/>)

## Professional Master's Programs - MaC

- Bioethics, MBE (<http://catalog.upenn.edu/graduate/programs/bioethics-mbe/>)
- Biomedical Informatics, MBMI (<http://catalog.upenn.edu/graduate/programs/biomedical-informatics-mbmi/>)
- Clinical Epidemiology, MSCE (<http://catalog.upenn.edu/graduate/programs/clinical-epidemiology-msce/>)
- Genetic Counseling, MSGC (<http://catalog.upenn.edu/graduate/programs/genetic-counseling-msgc/>)
- Health Care Innovation, MHCI (<http://catalog.upenn.edu/graduate/programs/health-care-innovation-mhci/>)

- Health Policy Research, MSHP (<http://catalog.upenn.edu/graduate/programs/health-policy-research-mshp/>)
- Healthcare Quality and Safety, MHQS (<http://catalog.upenn.edu/graduate/programs/healthcare-quality-safety-mhqs/>)
- Medical Ethics, MSME (<http://catalog.upenn.edu/graduate/programs/medical-ethics-msme/>)
- Medical Physics, MSMP (<http://catalog.upenn.edu/graduate/programs/medical-physics-mmp/>)
- Public Health, MPH (<http://catalog.upenn.edu/graduate/programs/public-health-mp/>)
- Regulatory Affairs, MRA (<http://catalog.upenn.edu/graduate/programs/regulatory-affairs-mra/>)
- Regulatory Science, MSRS (<http://catalog.upenn.edu/graduate/programs/regulatory-science-msrs/>)
- Translational Research, MSTR (<http://catalog.upenn.edu/graduate/programs/translational-research-mstr/>)

## Certificate Programs

- Advanced Research Training for Genetic Counselors, Certificate (<http://catalog.upenn.edu/graduate/programs/advanced-research-training-genetic-counselors-certificate/>)
- Biomedical Informatics, Certificate (<http://catalog.upenn.edu/graduate/programs/biomedical-informatics-certificate/>)
- Clinical Ethics Mediation, Certificate (<http://catalog.upenn.edu/graduate/programs/clinical-ethics-mediation-certificate/>)
- Clinical Research Nursing, Certificate (<http://catalog.upenn.edu/graduate/programs/clinical-research-nursing-certificate/>)
- Environmental Health Sciences, Certificate (<http://catalog.upenn.edu/graduate/programs/environmental-health-sciences-certificate/>)
- Graduate Training in Medical Sciences, Certificate (<http://catalog.upenn.edu/graduate/programs/graduate-training-medical-science-certificate/>)
- Health Care and Technology, Certificate (<http://catalog.upenn.edu/graduate/programs/health-care-technology-certificate/>)
- Health Care Innovation, Certificate (<http://catalog.upenn.edu/graduate/programs/health-care-innovation-certificate/>)
- Health Care Quality & Safety, Certificate (<http://catalog.upenn.edu/graduate/programs/health-care-quality-safety-certificate/>)
- Implementation Science, Certificate (<http://catalog.upenn.edu/graduate/programs/implementation-science-certificate/>)
- Medical Physics, Certificate (<http://catalog.upenn.edu/graduate/programs/medical-physics-certificate/>)
- Public Health, Certificate (<http://catalog.upenn.edu/graduate/programs/public-health-certificate/>)
- Regulatory Affairs, Certificate (<http://catalog.upenn.edu/graduate/programs/regulatory-affairs-certificate/>)
- Translational Research, Certificate
  - Entrepreneurial Science (<http://catalog.upenn.edu/graduate/programs/translational-research-entrepreneurial-science-certificate/>)
  - Regulatory Science (<http://catalog.upenn.edu/graduate/programs/translational-research-regulatory-science-certificate/>)
  - Translational Science (<http://catalog.upenn.edu/graduate/programs/translational-research-translational-science-certificate/>)

## Joint Degree Programs

### MD/PhD Program

- Medical Scientist Training Program (MSTP) MD/PhD ([http://www.med.upenn.edu/educ\\_combdeg/md-phd.html](http://www.med.upenn.edu/educ_combdeg/md-phd.html))

### MD/JD Program

- Juris Doctor (JD) Program ([http://www.med.upenn.edu/educ\\_combdeg/md-jd.html](http://www.med.upenn.edu/educ_combdeg/md-jd.html))

### MD/Master's Programs

- Master of Bioethics (MBE) ([http://www.med.upenn.edu/educ\\_combdeg/md-mbe.html](http://www.med.upenn.edu/educ_combdeg/md-mbe.html))
- Master of Business Administration (MBA) ([http://www.med.upenn.edu/educ\\_combdeg/md-mba.html](http://www.med.upenn.edu/educ_combdeg/md-mba.html))
- Master in Law (ML), Health Law Track ([http://www.med.upenn.edu/educ\\_combdeg/md-ml.html](http://www.med.upenn.edu/educ_combdeg/md-ml.html))
- Master of Public Health (MPH) ([http://www.med.upenn.edu/educ\\_combdeg/md-mph.html](http://www.med.upenn.edu/educ_combdeg/md-mph.html))
- Master of Science in Clinical Epidemiology (MSCE) ([http://www.med.upenn.edu/educ\\_combdeg/md-msce.html](http://www.med.upenn.edu/educ_combdeg/md-msce.html))
- Master of Science in Health Policy Research (MSHP) ([http://www.med.upenn.edu/educ\\_combdeg/md-mshp.html](http://www.med.upenn.edu/educ_combdeg/md-mshp.html))
- Master of Science in Medical Ethics (MSME) ([http://www.med.upenn.edu/educ\\_combdeg/md-msme.html](http://www.med.upenn.edu/educ_combdeg/md-msme.html))
- Master of Science in Translational Research (MSTR) ([https://www.med.upenn.edu/educ\\_combdeg/md-mstr.html](https://www.med.upenn.edu/educ_combdeg/md-mstr.html))