

## MASTER OF SCIENCE IN **MEDICAL PHYSICS**

The Master of Science in Medical Physics program is intended for individuals holding a B.S. in Physics, Engineering or a related discipline, who desire a career in Medical Physics. Medical Physicists work primarily in the hospital setting to help physicians diagnose and treat disease. Medical physicists may also teach resident physicians, medical students, and technologists the physical foundations and operation of medical imaging and radiation treatments.

### **PROGRAM STRUCTURE**

The degree offers full-time enrollment.

*Average time to completion (full-time): 2 years*

The degree offers part-time enrollment.

*Average time to completion (part-time) 3-4 years.*

Specific goals from the Commission on Accreditation of Medical Physics Education Programs (CAMPEP) are to provide students with the following:

- An understanding of the role of patient safety in the clinical practice of medical physics
- An understanding of the physics, mathematics, anatomy and radiation biology required for a career in medical physics
- An understanding of how research and inquiry lead to the creation of new knowledge
- The ability to critically evaluate research and scholarship in medical physics
- The competent use of research to pose new questions and to solve problems in research and clinical settings
- The communication and interpersonal skills that are necessary to function in a collaborative, multidisciplinary environment
- The professional attributes and the ethical conduct and actions that are required of medical physicists
- A valuing of career-long continuing education to keep scientific knowledge and skills current.

### **EXPECTATIONS AFTER GRADUATION**

The goal of this program is to prepare graduates to be competitive for Medical Physics residency programs in Radiation Oncology, Imaging and Nuclear Medicine. Since students may not desire to work in the clinical setting after graduation, an additional goal is to provide you with a breadth of educational experience that will help you pursue careers in related fields including, radiation safety, industry, and regulatory oversight.

### **PROGRAM DISTINCTIONS**

Loyola's Department of Radiation Oncology has a proven track record in Medical Physics education with their successful CAMPEP-approved Medical Physics residency program.

## STUDENT LIFE

- **STUDENT ORGANIZATION:** Student Committee on InterProfessional Education (SCIPPEC)
- **SERVICE LEARNING:** You will have an opportunity to participate in an International Service Immersions as part of a collaboration between Campus Ministry and the School of Health Sciences and Public Health.

## FACULTY

Our faculty are experts in their fields, and all hold advanced degrees. They have a wide variety of clinical and research interests, and are well respected in their areas of professional specialty. Expertise includes radiation dosimetry, image reconstruction, informatics and automation.

## PREREQUISITES

Students entering for the program will be required to have a strong foundation in Physics. This foundation shall be demonstrated either by having an undergraduate (BA/BS) or graduate (MS/PhD) degree in Physics. Other majors will be considered including a degree in engineering or other physical sciences, however, you will have to demonstrate that you have coursework equivalent to a minor in Physics, including three upper-level undergraduate courses required for a Physics major.

Admissions will be limited to the fall semester. The deadline for application is March 15. You will be expected to complete the GRE general test with minimum combined score (verbal + analytical) of 300. The GRE subject test in Physics is recommended, but not required. The minimum undergraduate GPA is 3.0 (out of 4.0). English language testing requirements for international students include: TOEFL: 550 paper, 79 IBT, IELTS: 6.5.

## LEARN MORE

APPLICATION REQUIREMENTS  
AND DEADLINES

[gpem.LUC.edu/apply](https://gpem.LUC.edu/apply)

## CONTACT INFORMATION

*For further information about academic programs, or to arrange a visit, please contact:*

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