

# Graduate & Residency Programs *We offer various graduate training programs.*



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## Graduate Programs

The School offers graduate programs leading to master's and doctoral degrees in pharmacology, in physiology, and in molecular biology, microbiology and biochemistry. It also offers year-round continuing medical education programs.

### **Molecular Biology, Microbiology and Biochemistry**

The Department of Medical Microbiology, Immunology and Cell Biology (MMICB) (Springfield) and the Department of Biochemistry and Molecular Biology (Carbondale), in cooperation with the Department of Microbiology in the College of Science (Carbondale), offer a joint graduate program leading to master's or doctoral degrees. MMICB offers a master's in public health laboratory science. The program is designed to provide a broad base of knowledge, as well as to allow the student to develop in-depth research skills and specialization in a variety of areas.

Students can complete their graduate courses and thesis or dissertation research on the Springfield or Carbondale campus.

### **Pharmacology**

The Department of Pharmacology in Springfield delivers graduate training leading to master's and doctoral degrees. Course work emphasizes basic principles and understanding of the major drug classes, mechanisms underlying drug actions and

laboratory methods in pharmacology. Specialized advanced courses include cellular, molecular, and neuropharmacology and toxicology.

Graduate students must develop and complete a research project that provides the basis for their thesis or dissertation. Since the faculty is heavily involved in research supported by extramural funds, students have a variety of areas from which to select projects. The laboratories and modern research equipment allow students to accomplish sophisticated research projects.

### **Physiology**

The Department of Physiology in Carbondale offers graduate training in molecular, cellular and systemic physiology leading to master's and doctoral degrees. The department's advisory system helps students plan course work in order to acquire a broad knowledge of the field before focusing on subdisciplines. Courses are available in mammalian physiology, cellular physiology, endocrinology, pharmacology, neural science, reproduction, molecular biology and anatomy.

To gain teaching experience, graduate students are expected to teach in the undergraduate laboratories at least one semester. Each student must complete a research project under the mentorship of a faculty member and prepare a thesis or dissertation. The faculty conducts a variety of research projects that are supported by extramural funds.

## Residency Programs

**Dermatology – 4 years**

**Emergency Medicine – 3 years**

**Family and Community Medicine – 3 years**

**Carbondale**

**Decatur**

**Quincy**

**Springfield**

**Internal Medicine – Categorical – 3 years;**

**Preliminary – 1 year**

**Medicine/Psychiatry – 5 years**

**Neurology – 4 years**

**Obstetrics/Gynecology – 4 years**

**Pediatrics – 3 years**

**Psychiatry – 4 years**

**Diagnostic Radiology – 5 years**

**Surgical Programs**

**General Surgery – 5 years**

**Orthopaedic/Rehabilitation – 5 years**

**Otolaryngology – 5 years**

**Plastic/Reconstructive Surgery – 6 years**

**Urology – 5 years**

**Vascular Surgery-Integrated – 5 years**



## Residency Programs

Graduate medical education at the School of Medicine includes a wide spectrum of residency programs as well as various fellowships. Each program introduces resident physicians to the scientific, clinical and humanistic aspects of a specific area of medicine. Our educational environment has numerous clinical settings where residents can apply knowledge and experience in individual patient encounters. Successful completion of each residency program fulfills the requirements to be board eligible for that specialty. Many residency programs also offer specialized one- or two-year fellowships.

Residencies are offered in cooperation with the affiliated hospitals in Springfield, Memorial Medical Center and St. John's Hospital. Training in family medicine takes place at the Center for Family Medicine and the two affiliated hospitals in Springfield or at the SIU family medicine centers in Carbondale, Decatur and Quincy.

## Continuing Medical Education

The Office of Continuing Medical Education in Springfield, accredited by the Accreditation Council for Continuing Medical Education, is responsible for the organization, development and coordination of the School's continuing education program. Commitment to continuing education is inherent in the responsibilities of each faculty member.

One-day symposia in Springfield and Carbondale reflect current information and skills in medicine. They usually feature guest faculty and faculty members from the School. Other on-campus activities include Grand Rounds, tumor boards and clinical conferences.

Off-campus activities include conferences and meetings at the School's affiliated hospitals and other regionally presented symposia.