

# SCHOOL OF MEDICINE

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*Associate Dean for Student Affairs:* Eric R. Williams, M.D.

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*Assistant Dean for Clinical Curriculum and Assessment:* Brian D. Keisler, M.D.

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*Assistant Dean for Executive Affairs and Director of Library Services:* Ruth A. Riley, M.S.

*Assistant Dean for Information Technology and Chief Information Officer:* D. Lindsie Cone, M.D.

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*Assistant Dean of Student Professional Development and Director of Educational Innovation:* Donna Ray, M.D.

*Assistant Dean for Clinical Graduate Programs:* Paul Toriello, Ph.D.

*Director of Medical Student Recruitment:* James R. Stallworth, M.D.

A national leader in primary care medical education, the University of South Carolina School of Medicine also sponsors research and professional training focused on health care needs. In addition to the degree of Doctor of Medicine, the School of Medicine offers the Doctor of Philosophy degree with a major in biomedical science, the Master of Science degree with a major in biomedical science, the Master of Science in Genetic Counseling, the Master of Nurse Anesthesia, and the Master of Rehabilitation Counseling. A Certificate of Graduate Study in Psychiatric Rehabilitation has also been recently developed. An M.D./Ph.D. plan is available to students interested in careers in academic medicine or medical research. Correspondence concerning admission to the M.D. program and requests for the School of Medicine Bulletin should be addressed to:

School of Medicine  
Office of Admissions  
University of South Carolina  
Columbia, SC 29208  
phone: 803-733-3325

Extensive information about the School of Medicine may be accessed via our Web site at <http://www.med.sc.edu/academic.asp>. ([https://sc.edu/study/colleges\\_schools/medicine/](https://sc.edu/study/colleges_schools/medicine/))

The school's administrative offices and basic science departments, which adjoin the Dorn VA Medical Center, have the advantages both of a beautiful, historic campus and well-equipped, modern laboratories and classrooms. Clinical departments are located on the rapidly expanding USC School of Medicine campus at Richland Medical Park in Columbia. Affiliated hospitals are the Byrnes Center for Geriatric Medicine, Education, and Research; the Dorn VA Medical Center; the Greenville Hospital System; the William S. Hall Psychiatric Institute; Moncrief Army Hospital; and Palmetto Richland Memorial Hospital. The school also collaborates closely with state agencies involved in health service delivery.

The University of South Carolina School of Medicine emphasizes research partnerships with affiliated hospitals and agencies to direct investigations to areas of greatest potential health benefit. The Centers of Research Excellence, a joint interdisciplinary venture with Palmetto Richland Memorial Hospital, includes research centers focused on cancer, cardiovascular disease and stroke, biomedical ethics, and primary health care. The Rural Primary Care Education Projects in Winnsboro, Kershaw, and Bennettsville, S.C., serve as centers for research on rural health care delivery, including telemedicine.

Innovative research on geriatric health care and child and community mental health issues is under way in cooperation with the Byrnes Center for Geriatric Medicine, Education, and Research and the William S. Hall Psychiatric Institute. Other areas of research strength include developmental disabilities, neuroscience, infectious diseases and immunology, inflammation, cardiovascular disease, cancer, tissue engineering and reproductive biology and endocrinology.

## Degree Programs

### Ph.D. and MS, Biomedical Science

Designed to train students for careers in teaching and research, the doctoral program in biomedical science is an interdisciplinary program with participation of the basic medical science Departments of Pharmacology, Physiology, and Neuroscience; Cell and Developmental Biology and Anatomy; and Pathology, Microbiology and Immunology.

The Biomedical Science PhD program at the School of Medicine is a component of the Integrated Biomedical Science Graduate Program at the University. This is a cooperation between the graduate programs of the Schools of Medicine and Public Health (Exercise Science), the Departments of Biology, Chemistry (Biochemistry) and Psychology and the South Carolina College of Pharmacy (Basic Pharmaceutical Science). Doctoral students are admitted to the integrated program and pursue required common core courses. They also carry out up to three laboratory rotations from a choice of more than 80 laboratories in the participating departments.

Students who choose to work with a mentor from the School of Medicine transfer to the School's Biomedical Science Graduate Program for the remainder of their graduate studies. The curriculum includes elective courses and seminars as well as supervised laboratory research. The program's size of approximately 40 students provides extensive student/faculty interaction.

The purpose of the MS program is to provide broadly based interdisciplinary training in biomedical science to individuals who wish

to expand or change their educational background and training to fulfill personal, pre-professional, or other career advancement goals. This two year program consists of one year of core courses with a heavy emphasis on biochemistry and molecular and cellular biology and one year of research which can either be laboratory- or library-based.

### **Certificate of Graduate Study in Biomedical Studies**

This one-year certificate program offers advanced graduate level training in a number of areas of biomedical sciences. It is designed for individuals seeking to enhance further their background in the basic health sciences prior to entry into professional schools including medical, dental, veterinary and osteopathic medicine schools. This program is not intended to provide undergraduate-level training in pre-medical course work needed to get admission into medical or professional schools. Instead, the program is designed to make postbaccalaureate students more competitive for admission through extensive graduate-level course work in the areas of physiology, pharmacology, biochemistry, cell and molecular biology, and neuroscience along with several other elective courses in the biomedical sciences. In addition, students will take courses in the ethics of medical science, MCAT (or similar) preparation and the preparation of a professional school application. Completion of the certificate requires 18 credit hours at the graduate level with required courses and additional electives.

### **Master of Science, Genetic Counseling**

The master's program in genetic counseling prepares genetic counselors to work with families at risk for genetic disease or birth defects. Graduates are also involved in teaching, research, and administrative aspects of this growing field. The curriculum includes course work and internship opportunities at the University of South Carolina, the Medical University of South Carolina, the Medical College of Georgia, the Greenwood Genetic Center, the Carolinas Medical Center in Charlotte, Savannah Perinatology Associates, UNC-Chapel Hill, Fullerton Genetic Center, the Duke University Medical Center, and Emory University. The first of its kind in the Southeast and one of only 32 in the United States, the genetic counseling master's program is accredited by the American Board of Genetic Counseling.

### **Master of Nurse Anesthesia**

The master's program in nurse anesthesia trains registered nurses to develop, implement, and evaluate the anesthetic care of patients. Cosponsored with Palmetto Richland Memorial Hospital and Greenville Hospital System University Medical Center, the program includes both course work and clinical experience. The master's program in nurse anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs. Graduates are eligible for certification by the Council on Certification of Nurse Anesthetists.

### **Master of Counseling and Rehabilitation**

The Masters of Arts degree in Counseling and Rehabilitation offers three specialized practice areas: Clinical Rehabilitation Counseling, Clinical Addiction Counseling, and Career Counseling. The curriculum focuses on preparing students to develop practical, ethical, and culturally responsive professional counseling skills to help enhance the quality of life for those living with and without disabilities. Each specialized practice area pathway prepares students for practice as Licensed Counselors (LPC or LAC) and Certified Counselors (CRC, NCC, MAC, or CCC) in diverse settings such as state and community agencies, private practices, industry, hospitals, schools, and colleges. The program was accredited by the Council for Accreditation of Counseling and Related Educational Programs for a full 8- year period through March 2029.

### **Certificate of Graduate Study in Psychiatric Rehabilitation**

This cross-disciplinary program provides focused training in the area of psychiatric rehabilitation to meet a need for trained professionals with specialized knowledge and skills in assisting individuals with severe, long-term mental illnesses in securing and maintaining employment. Individuals with training in vocational rehabilitation have not typically been trained in working with mental illness, and individuals with expertise in mental health issues are not typically trained in vocational rehabilitation. This program presents a unique opportunity to address this need for professionals who are cross-trained to work with both mental health issues and vocational concerns. Key content areas of study in the certificate program include the characteristics of severe long-term mental illnesses, assessment, treatment, rehabilitation methods, and the recovery process. All course work is available on campus or online in distance education format.

### **Programs**

- Biomedical Sciences, M.S.
- Biomedical Sciences, Ph.D.
- Biomedical Studies, Certificate
- Counseling and Rehabilitation, M.A.
- Genetic Counseling, M.S.
- Medicine, M.D.
- Nurse Anesthesia, M.N.A.
- Nursing Anesthesia, D.N.P.
- Physician Assistant Studies M.S.P.A.S.
- Psychiatric Rehabilitation, Certificate