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GRADUATE STUDIES
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Master of Science in Pharmacology

DEGREE PROGRAM

Designed to improve your credentials for admission to a medical school

2008 - 09

Tulane University
Health Sciences Center

MASTER OF SCIENCE IN PHARMACOLOGY

This one year post-baccalaureate program leading to the degree of Master of Science in Pharmacology has been designed for those students who are interested in improving their credentials to compete for admission to a medical school, as well as those individuals who are interested in this degree to achieve other professional goals. The students in this M.S. program take the Medical Pharmacology course along with the medical students at Tulane Medical School. Thus, successful performance of students in this program will improve their credentials significantly. The students will learn analytical thought processes needed in the approach, rationale, and in a variety of methods required to design and conduct experiments in biomedical research. This training will prepare the students for further education in either medical or graduate school. There is also a significant need in the pharmaceutical industry for individuals with advanced training in pharmacology, at the level of technical management, research and manufacturing.

From this 9 year-old program, approximately 80% of the graduated students have been accepted for admission to various U.S. Medical Schools that include:

- Loyola School of Medicine, Chicago
- Texas Tech University Health Sciences Center
- University of Colorado
- University of Illinois, Chicago
- University of Minnesota
- University of Nevada
- University of Tennessee
- University of Texas, Houston
- Wake Forest University
- Medical College of Georgia
- Louisiana State University, New Orleans
- Louisiana State University, Shreveport
- Albany Medical College
- Medical College of Wisconsin
- SUNY Upstate School of Medicine
- UMDNJ, New Jersey
- University of Hawaii
- University of Miami
- University of Mississippi, Jackson
- University of Pennsylvania
- University of Texas, San Antonio
- University of Wisconsin
- Uniformed Services Univ of the Health Sciences
- Tulane University School of Medicine
- University of Southern Illinois
- University of South Carolina

PROGRAM CALENDAR

The M.S. in Pharmacology curriculum is designed for completion within one year. The classes in the M.S. program start during the first week of August and students complete their thesis research by the end of July of the following year.

ADMISSION REQUIRMENTS

Applicants for admission to this M.S. program should have successfully completed the requirements for a baccalaureate degree including basic course work in biology and chemistry. Admission is competitive and applicants should have a minimum GPA (3.0) and MCAT (24) or GRE (1100).

DEGREE REQUIREMENTS

Students must take 24 credit hours of course work during the fall, spring and summer semesters and complete the requirements for a thesis which may be based on either laboratory or library research.

APPLICATION PROCESS

The application for admission to the Master of Science degree program in Pharmacology should be submitted to the Department of Pharmacology along with a fee of $75.00 payable to Tulane University. This fee is non-refundable. The deadline for submission of completed applications is June 6, 2008. However, applications will be reviewed as they are received and applicants will be admitted on a competitive basis. Therefore early submission of applications is highly encouraged. To apply, download application forms for the Master of Science degree program in Pharmacology at the following web site: **www.pharmacology.tulane.edu**

TUITION

Full time tuition for the 2008-09 academic year is $22,920 for 24 credit hours ($955 per credit hour). No tuition waivers are available for this program. During the summer semester, students must also register for Thesis Research and pay a fee of $250. Students will also be charged the following estimated fees on a per semester basis: $698 Academic Support Service fee, $300; the Student Activity fee, $60; the Student Health Service fee, $218; and the Reily Recreation Center fee, $120.

PROGRAM CURRICULUM

FALL SEMESTER COURSES (Credits)

GPHR 723 – Principles of Pharmacology I (4)
Designed to provide basic physiological principles and the elements of interaction of drugs with biological systems

GPHR 725 – Medical Pharmacology (4)
This course is taken along with the medical students. Provides basic knowledge of drugs, the mechanism of their action, pharmacokinetics, therapeutics and adverse effects

GPHR 750 – Pharmacological Research (1)
Discussion on approaches for experimental design employing state-of-the-art molecular biology and other techniques used in pharmacological research

GPHR 719 – Pharmacology Seminar (1)
Weekly series of seminars presented by faculty and invited speakers on a variety of topics in the field of medical pharmacology, physiology and pathophysiology

GPHR 721 – Advances in Pharmacology (1)
Weekly series of presentations by students on current topics in pharmacological research

SPRING SEMESTER COURSES (Credits)

GPHR 724 – Principles of Pharmacology II (3)
Emphasizes basic principles of signal transduction, second messengers, behavioral and immunopharmacology

GPHR 750 – Pharmacological Research (1)
Continuation of the course from the previous semester

GPHR 726 – Medical Pharmacology (2)
Continuation of the Medical Pharmacology course taken along with medical students

GPHR 719 – Pharmacology Seminar (1)

GPHR 722 – Advances in Pharmacology (1)

Two of the following three elective courses:

GPHR 705 – Cellular Control Mechanisms (2)
Offers an insight into factors controlling cellular growth and control mechanisms for regulation at the biochemical and molecular level

GPHR 706 – Endocrine Pharmacology (2)
Focuses on discussions in the field of hormonal mechanism of action

GPHR 712/ GPHR 704 – Advanced Topics in Cardiobiology and the Physiological and Biochemical Basis of Neuropharmacology (2)
Discussion of journal articles

SUMMER SEMESTER

GPHR 750 – Pharmacological Research (1)
Continuation of the course from the previous semester

GPHR 998 – Masters Thesis Research