

# PHARMACOLOGY, MS

## One Year Masters Program

- A one year post-baccalaureate program leading to the MS degree in Pharmacology
- Designed for those interested in improving their credentials to gain admission to a medical or dental school
- Class size is maintained at less than 25 to create a more personal connection between students & faculty
- Students in our MS program take the School of Medicine's 2nd year Medical Pharmacology course (taught separately in a different sequence)
- All graduate courses are taught within the School of Medicine by full time Medical School faculty
- Successful performance will significantly improve ones credentials for applying to medical or dental school.
- Students who took the MCAT a second time after completing our MS program between 2009-2013 significantly increased their MCAT score by  $3.5 \pm 1.8$  ( $n=47$ ,  $P < 0.0001$ ) (based upon the pre-2015 MCAT scale of 3-45).
- **The average graduate GPA after successful completion of our program over the past eight years was 3.8, and over 78% matriculated into a medical or doctoral program of their choice.**

## Objectives

- To train students in the principles underlying the discipline of pharmacology
- To learn the approach, rationale, and methods required to design and conduct research in pharmacology

Tulane became the first national research institution to integrate public service into its core curriculum for undergraduates in 2006. Now, the entire university community, including the schools of Architecture and Built Environment, Business, Law, Liberal Arts, Medicine, Public Health and Tropical Medicine, Science and Engineering and Social Work – is committed to public service.

Public service is of particular importance to those entering our one year masters program, because providing a track record of significant public or community service has become a prerequisite for admission to most US medical schools. Students are expected to move beyond the scope of academics and work in a community to improve the health of a population. This is "what medicine is all about".

As a result, a core requirement of our Masters program in Pharmacology is that students provide public or community service for a minimum of 12 hours for the Fall semester (1 credit hour) per semester, and 24 hours for the Spring semester. Students are also required to post monthly blogs summarizing their community service activities.

Tulane has a Center for Public Service that helps connect students with numerous community partners & outreach programs that are active in the New Orleans area. As a part of the pharmacology curriculum, students are required to document their service activities in short essays, posted photos or video clips, and reflect upon the learning garnered from such activities in an online blog or wiki page. In addition, students are also expected to reflect on what they have learned from their academic and classroom activities.

Tulane is setting the standard for public service for the next generation of universities. When you receive a Tulane education, you will get a little something extra from community service activities that most other institutions don't offer. Our students get a unique educational experience that can be found Only in New Orleans. Only at Tulane.

## Requirements

**Community Service:** A track record of community or public service has become a prerequisite for admission to most US medical schools. During the Fall semester students must complete 1 hour of community service per week, or a minimum of 12 hours per semester. Documentation & reflection on what students learn from community service activities is a component of the Pharmacology ePortfolio course. During the Spring semester students must perform a minimum of 24 hours of community service for 2 credit hours in the ePortfolio course. This will be used to complete 32 total credit hours at the end of the program.

## Curriculum

### Fall and Spring Semesters

Year 1		Credit Hours
<b>Fall</b>		
GPHR 7210	Pharm Advances	1
GPHR 7250	Medical Pharmacology <sup>1</sup>	6
GPHR 7530	Molecular & Cellular Pharmacol	2
GPHR 7520	Pharmacology ePortfolio	2
GPHR 7230	Principles of Pharmacol	3
GPHR 7190	Pharmacology Seminar	1

**Research Electives**

1-2

GPHR 7510	Pharmacological Lab Research	
GPHR 7505	Master's Research	

**Credit Hours**
**16-17**
**Spring**

GPHR 7220	Adv In Pharmacology	1
GPHR 7260	Medical Pharmacology <sup>1</sup>	4
GPHR 7520	Pharmacology ePortfolio	2
GPHR 7200	Seminar Pharmacology	1
GPHR 7240	Principles of Pharmacol	2
Spring Thematic Courses		6

**Credit Hours**
**16**
**Total Credit Hours**
**32-33**

<sup>1</sup> Requires concurrent registration for Principles of Pharmacology, or prior completion of Medical Physiology

Course ID	Title	Credits
<b>Spring Thematic courses</b>		
GPHR 7040	Neuropharmacology	2
GPHR 7050	Cellular Control Mechanm	2
GPHR 7060	Endocrine Pharmacology	2

## Contact

For more information, contact the School of Medicine (<https://medicine.tulane.edu/biomedical-sciences-graduate-program/contact-us/>).