

Dual Master of Science in Pharmacogenomics and Doctor of Pharmacy

Overview

The College of Pharmacy and Health Sciences offers both the professional Doctorate of Pharmacy (PharmD) and the Master of Science in Pharmacogenomics (MSPGx). The intent of this dual degree option is to expand the opportunities available to pharmacy graduates, particularly those pursuing clinical fellowships or residencies with an eventual goal of working in clinical pharmacogenomics-based positions, the pharmaceutical industry, or academics.

This is a dual degree program, where students completing the requirements for each program will receive two separate degrees, the PharmD degree and the MSPGx degree, within four years of entry as a PharmD student. Initially, students admitted by the College's Admissions are only admitted into the PharmD degree portion of the program. Transition into the MSPGx program is not automatic, nor is acceptance into the MSPGx program guaranteed, but requires application and acceptance into the MSPGx program. The MSPGx program admission requirements can be found in the "Master of Science in Pharmacogenomics" program description in this catalogue.

PharmD students would be eligible to apply for admission to the MSPGx degree program during their first semester in the PharmD program. Application to the MSPGx program could occur later in the PharmD program; however, such later application and enrollment in the MSPGx program could have an impact on the timeline to completion. Candidates must successfully submit their application materials to be considered for enrollment in the MSPGx portion of the dual degree option.

The PharmD program consists of 146 credits (refer to "Doctor of Pharmacy Major" in this catalogue for details) and the MSPGx program consists of 41 credits (refer to "Master of Science in Pharmacogenomics" in this catalogue for details). The dual degree option was designed to take advantage of courses already part of the PharmD program, so the two programs share 14 required, and possibly, 9 elective credits. With required and elective course sharing, and taking the 2nd and 3rd year PHAR IPPE courses during the prior summer semesters, and taking the Applied Pharmacogenomics experiential course during the summer, the dual degree program can be accomplished in 4 years, essentially at the same time as the PharmD degree.

Total Credit Hours: 41

Degree Requirements

The semester-by-semester PharmD-MSPGx dual degree program course listings below only show those courses required in both programs (PHAR-designated courses), those that are required in one program but count as an elective in the other (PHRSC 527, 551, and 553), or those specific to the MSPGx (the remaining PHRSC-designated courses).

Course Sequence

1st Year PharmD - Fall Semester

PHAR 513	Biochemistry	3 cr.
PHAR 516	Pharmacy Ethics	3 cr.
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		Subtotal: 6

1st Year PharmD - Spring Semester

PHAR 522	Pathophysiology	3 cr.
PHAR 523	Basic Prin. Genetics & Genomics	2 cr.
PHAR 526	Pharmacy Outcomes	2 cr.
PHRSC 552	Advanced Genetics and Genomics	1 cr.
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		Subtotal: 8

2nd Year PharmD/1st Year MSPGx - Fall Semester

PHAR 611	Principles of Pharmacology	3 cr.
PHRSC 510	Seminar & Journal Club 1	1 cr.
PHRSC 551	Introduction to Genetics and Genetic Counseling	3 cr.
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		Subtotal: 7

2nd Year PharmD/1st Year MSPGx - Spring Semester

PHRSC 520	Seminar & Journal Club 2	1 cr.
PHRSC 553	Genetic Data Analysis - Bioinformatics	3 cr.
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		Subtotal: 4

3rd Year PharmD/2nd Year MSPGx - Summer Semester

PHRSC 554	Applied Pharmacogenomics Experience	6 cr.
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		Subtotal: 6

3rd Year PharmD/2nd Year MSPGx - Fall Semester

PHRSC 527	Data Analysis & Biostatistics	3 cr.
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Subtotal: 3

3rd Year PharmD/2nd Year MSPGx - Spring Semester

PHRSC 526	Analytical Techniques Lab	1 cr.
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Subtotal: 1

4th Year PharmD/3rd Year MSPGx – Summer, Fall, or Spring Semesters

PHRSC 555	Clinical Pharmacogenomics Experience	6 cr.
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Subtotal: 6

Subtotal: 41

Total Credit Hours: 41

MSPGx Degree completion requirements:

- 1) All courses passed (“C” or better), with no more than two courses with a grade of “C” or “C+” and
- 2) Attain an overall grade point average of 3.0 or higher.