**pharmacY**

**Doctor of Pharmacy (PharmD) Degree**

**DEGREE INFORMATION**

**Priority Admission Application Deadlines**

Fall Early Decision: September 6

Regular Decision: February 1

**Minimum Total Hours**: 152 hours

**Level** Doctoral / Professional

**CIP Code** 51.2001

**Dept Code** PHA

**Major/College Codes** Rx / PRY

**Approved**  Effective Fall 2016

**Concentration:**

Pharmacy and Health Education (RXHE)

**Also offered as Concurrent Degree Option**

**CONTACT INFORMATION**

College College of Pharmacy

Department Department of Pharmacy

Contact information

[www.health.usf.edu/pharmacy](http://www.health.usf.edu/pharmacy)

**Major Information**

The USF COP curriculum is very similar to that offered by other schools and colleges across the state of Florida and country. This is purposeful as there are standards that must be upheld by all pharmacy programs must to remain in accordance with national accreditation, financial aid and state regulatory requirements. The USF COP Mission, Vision and Goals serve to guide curricular content as well as other COP endeavors. The integration of technology, student engagement in the educational process, and interprofessional activities serve as the foundation for each course. The faculty will utilize a variety of instructional methods to foster student attainment course objectives.

All students will be enrolled on a full-time basis. Several courses may be taught predominantly on-line, however the majority of courses will include classroom contact. Lectures will be limited so that peer and faculty interactions can be maximized. For many courses students may be required to listen to lectures on-line, or complete activities and/or assignments in preparation for class. The emphasis of the USF COP is the comprehension and assimilation of knowledge, with subsequent demonstration of competency (skills and abilities).

**Accreditation**

Accredited by the Accreditation Council for Pharmacy Education (ACPE).

**Major Research Areas**

<http://health.usf.edu/pharmacy/research/index.htm>

**Admission Information**

All applications undergo a holistic review process whereby careful consideration is given to all the credentials presented by applicants. By utilizing this process, applicants’ academic record along with experiences and attributes are assessed for potential academic and clinical success.

* US Citizen or US Permanent Resident
* ≥ 2.75 Overall GPA (preferred).
* Completion of at least 72 prerequisite coursework
* PCAT is required. While 65th percentile composite PCAT score is preferred, we will consider applicants with lower scores that may have other strong academic indicators providing evidence of success. PCAT scores older than 3 years will NOT be accepted.

**Curriculum Requirements:**

Minimum Total Hours: 152 credit hours

Common Core Requirement: 136 hours

Concentration (Optional): 11 hours

Required Electives: 16-18 hours

Four year (9 term) major including 1 summer term

**Common Core Requirements - Curriculum (Didactic and Experiential) – 136 hours**

PHA 6114C 3 Drug Delivery Systems I (with lab)

PHA 6115C 3 Drug Delivery Systems II (with lab)

PHA 6124 3 Principles of Pharmacokinetics / Pharmacodynamics I

PHA 6129 3 Clinical Pharmacokinetics / Pharmacodynamics

PHA 6130C 3 Translational Pharmacogenomics- Principles and Clinical Application

PHA 6233C 3 Jurisprudence

PHA 6243 2 Medical Informatics & Technology

PHA 6261 3 Healthcare Administration & Economics

PHA 6270 2 HealthCare & Medication Safety

PHA 6451 2 Clinical Biochemistry

PHA 6562 4 Physiologic Basis of Disease

PHA 6575 3 Introduction to Principles of Drug Action

PHA 6577 4 Biochemical & Molecular Principles of Drug Action

PHA 6618C 3 Principles of Geriatric Pharmacotherapy

PHA 6740 2 Grant Writing & Clinical Research

PHA 6755 2 Medical Microbiology & Immunology

PHA 6760 3 Non-Prescription & Herbal Therapies

PHA 6782C 5 Pharmacotherapeutics I

PHA 6783C 5 Pharmacotherapeutics II

PHA 6784C 5 Pharmacotherapeutics III

PHA 6787C 5 Pharmacotherapeutics IV

PHA 6792C 2 Drug Information / Literature Evaluation

PHA 6795 3 Research Methods & Biostatistics

PHA 6804C 2 Pharmaceutical Calculations

PHA 6870C 2 Pharmaceutical Skills I

PHA 6871C 3 Pharmaceutical Skills II

PHA 6872C 3 Pharmaceutical Skills III

PHA 6873C 3 Pharmaceutical Skills IV

PHA 6874C 3Pharmaceutical Skills V

PHA 6875C 3Pharmaceutical Skills VI

PHA 6898 3 Foundations in Public Health

PHA 6915C 1 Pharmacy Longitudinal Research Project (Taken four times for a total of 4 hours)

PHA 6940 1 Introductory Pharmacy Practice Experience I (IPPE)

PHA 6945 1 IPPE – Community Pharmacy Practice I

PHA 6946 1 IPPE – Community Pharmacy Practice II

PHA 6947 1 IPPE - Institutional Pharmacy Practice I

PHA 6948 1 IPPE - Institutional Pharmacy Practice II

PHA 7626 6 (APPE) Advanced Health- System Pharmacy Experience (Institutional)

PHA 7627 6 (APPE) Advanced Community Pharmacy Practice Experience

PHA 7644 6 (APPE) Geriatrics Patient Care Pharmacy Practice Experience

PHA 7692 6 (APPE) Advanced Ambulatory Pharmacy Practice Experience

PHA 7694 6 (APPE) Advanced Adult Medicine Pharmacy Practice Experience

PHA 7928Var (2) Professional Forum

**Concentration Option**

The Pharmacy and Health Education Concentration provides students with a background in teaching and learning theory and the skill sets necessary to provide Pharmacy and Health Education in various formats (e.g.,. continuing education, precepting, in-services). The Concentration also provides the opportunity to become engaged in the scholarship of teaching and learning. Students interested in pursuing the Concentration must formally notify the Concentration Coordinator by the end of their PY2 year.

Upon completion of the Pharmacy and Health Education Concentrationcoursework, a student will be able to:

1. Articulate the role of life-long learning in the Pharmacy Profession and utilize self-reflection to identify areas of need.

2. Describe career paths in health education and corresponding roles and responsibilities.

3. Employ effective teaching and assessment methods to provide appropriate education to various population (e.g., peers, other health professionals, and the general public).

4. Create effective learning environments, teaching tools and assessments based-upon evidence-based learning theory and cognitive practice.

**Pharmacy and Health Education Concentration (RXHE) – 11 credit hours minimum**

HSC 6261 2 Teaching Essentials

HSC 6261L 1 Teaching Essentials Lab

PHA 7684 ± 6 Elective 1 Pharmacy Practice Experience: Academia

And one of the following:

PHA  6877C 2 Critical Care Pharmacotherapy

PHA 6780C 2 Oncology Pharmacy Practice

PHA 6907\* 2-3 Directed Independent Study

PHA 6935\* Var (1-5) Special Topics in Pharmacy

PHA 6915 \* 4 Pharmacy Longitudinal Research Project

*± In the instance this course is unavailable, an amended rotation with a faculty member to meet concentration requirements may suffice, pending Concentration Coordinator and Academic Affairs Dean approval.*

*\* Concentration Coordinator must approve courses to ensure content or project topics align with concentration for credit.*

Students may enroll in HSC 6261 and HSC 6261L courses in their PY2 or PY3 year and may take this course on-top of another elective if desired. Due to the enhanced workload and rigors of the course, students must meet eligibility requirements in addition to completion of the application. Eligibility requirements are as follows:

1. PY2 or PY3 standing
2. GPA ≥ 3.00
3. Support from your student success coach and at least (1) course coordinator via signature on the application form.

The concentration will be noted on the USF official transcript. No other documentation or certificate will be provided by the College of Pharmacy. Additional details pertaining to the Concentration Track can be found at <http://health.usf.edu/pharmacy/>

**Electives – 16-18 hours minimum**

Students complete 16-18 hours of electives minimum from the list below. Students in the Concentration complete the concentration requirements in lieu of 11 hours of the electives, and then complete additional electives from the list noted with (\*) below.

PHA 6780C\* 2 Oncology Pharmacy Practice

PHA 6877C\* 2 Critical Care Pharmacotherapy

PHA 6916\* 2 Directed Independent Research

PHA 7684\* 12 Elective 1 Pharmacy Practice Experience X 2

PHA 6177 3 Advanced Compounding and Industrial Pharmacy

PHA 6185 3 Drug Discovery and Frontier

PHA 6221 2 Pharmacists Role In Transitions of Care

PHA 6223C 2 Pharmacy Leadership

PHA 6224 2 Pharmaceutical Debates On Recent Issues Affecting the Profession

PHA 6352 2 Herbal Medicines and Alternative Therapy

PHA 6428C 2 Advanced Topics In Metabolic Syndrome Treatment

PHA 6531 2 Clinical Toxicology

PHA 6592C 2 Advanced Cardiology Pharmacotherapy

PHA 6598 2 Current Perspectives in Mental Health

PHA 6602 3 Pediatric Pharmacotherapy

PHA 6615C 2 Ambulatory Care Pharmacy Practice Elective

PHA 6628 2 Introduction to Post Graduate Residency Training

PHA 6730C 2 Drugs of Abuse, Addiction, and Law Enforcement

PHA 6771C 2 Clinical Nutrition In Pharmacy Practice

PHA 6786 3 Travel Medicine

PHA 6907 2-3 Directed Independent Study

PHA 6879 2-3 Death & Dying for Healthcare Professionals

PHA 6563C 3 Internal Medicine Elective

PHA 6935 1-5 Special Topics in Pharmacy

**COURSE SEQUENCES / SCHEDULE**

Go to <http://health.usf.edu/pharmacy/curriculum>) for course sequence/schedule information

**Internship**

***Introductory Pharmacy Practice Experiences (IPPE)***

The IPPE sequence begins during the second semester of the first year of the curriculum, and focuses on public health principles. Students will participate in local community health centers and other clinics that treat underserved populations (60 contact hours).

The second year IPPE encompasses activities within community pharmacy practice sites across the Tampa Bay region (retail, independent, supermarket, etc.). Students will participate in a minimum of 60 contact hours per semester, 120 hours for the academic year.

The third year IPPE encompasses activities within institutional pharmacy practice sites across the Tampa Bay region (hospitals, long-term care facilities, etc.). Students will participate in a minimum of 60 contact hours per semester, 120 hours for the academic year.

**Advanced Pharmacy Practice Experiences (APPE)**

The fourth professional year APPE begins the summer semester immediately following the conclusion of the third professional year. The APPE are comprised of seven six-week rotations, encompassing a minimum of 1600 hours of clinical instruction. The APPE will primarily occur within practice environments throughout the state of Florida. Students are able to pursue rotations beyond the state of Florida if the site and preceptor are deemed acceptable, and arrangements can be coordinated to align with the academic calendar.

**Graduation Requirements**

* A minimum cumulative grade point average (CGPA) of 2.50
* Successful completion of the following within 7 years from the original date of admission:
  + All Didactic (GPA 2.00 or higher)
  + Attend all MPJE and NAPLEX reviews
  + All Experiential Education (GPA 2.00 or higher)
  + Professionalism (proficiency in professionalism, clinical skills, effective judgment and decision making)
* Timely Submission of the application for graduation
  + Graduate application fee due at time of submission

**Concurrent Degree Options:**

Students may apply to pursue one of the Concurrent Degree Options. Applicants must meet University Admission Requirements (see Graduate Admissions section) as well as the requirements for each major. Refer to the individual listings for the each major for admission and curriculum requirements specific to the major. Admission into one major does not guarantee admission in the other major.

**Concurrent Pharmacy (PharmD) and Public Health (MPH)**

**PharmD in Pharmacy – total minimum hours – 152 credit hours**

**M.P.H. in Public Health - total minimum hours – 42 credit hours**

**Shared Courses – 9 credit hours**

PHA 6898 3 Foundations of Public Health

PHC 6145 3 Translation to Practice

PHC 6950 3 Integrative Learning Experience

Total combined hours after sharing: 185

All other requirements of each major must be completed. Refer to the curriculum requirements for each major and also to the Concurrent Policy for more information.

**Concurrent PharmD/ MBA**

**PharmD in Pharmacy – total minimum hours – 152 credit hours**

**M.B.A. in Business Administration - total minimum hours – 33 credit hours (49 hours if foundational courses are needed)**

**Shared Courses – 9 credit hours**

PHA 6261 3 Healthcare Administration and Economics

PHA 6270 2 Healthcare and Medication Safety

QMB 6603 2 Operations Management and Quality Enhancement

FIN 6466 2 Financial Analysis

Total combined hours after sharing: 176 (192 with foundation courses)

All other requirements of each major must be completed. Refer to the curriculum requirements for each major and also to the Concurrent Policy for more information.

**Concurrent PharmD/ MS**

**PharmD in Pharmacy – total minimum hours – 152 credit hours**

**M.S.P.N. – Pharmaceutical Nanotechnology - 32 total minimum hours**

**Shared Courses – 9 credit hours**

PHA 6185 3 Drug Discovery & Frontier

PHA 6124 3 Principles of Pharmacokinetics/Pharmacodynamics I

PHA 6148 3 Nanoformulations and Nanopharmaceutics

Total combined hours after sharing: 175

All other requirements of each major must be completed. Refer to the curriculum requirements for each major and also to the Concurrent Policy for more information.