

Fall 2017 Electives for 2PD & 3PD Students

The PharmD curriculum requires completion of 4 credit hours (eg, two 2 credit hour courses) of electives by end of summer in both the 2PD and 3PD years.

Only the courses below are approved for this elective requirement.

Approved Electives that are Covered by Block Tuition and a Scheduled PharmD Elective Course:

Course Title; Credits; Grading	Faculty	Course Purpose	Su 1PD	2PD	3PD	Other Information
First Response, Emergency, and Disaster Planning (2 Cr Hr – Pass-fail grading)	Dr. Randell Doty & Dr. Sven Normann	The purpose of this course is to expose pharmacy students (or students in patient care professions) to the learning experience of being a health care provider at the point of injury/event with a patient or number of patients in a disaster or emergency situation. The course will focus on realistic emergency preparedness for the health care needs of multiple patients in a disaster scenario (mass casualty event, hurricane, tornado, global health event, etc.) Student interaction with the instructors, content and learning activities of this course will sharpen the knowledge, skills and readiness of the developing pharmacist.		X	X	This course begins at the start of fall semester with an orientation and then experiential activities. Approximately 15 contact hours occur during the Fall elective block.
History of Pharmacy (2 Cr Hr – Pass-fail grading)	Prof. Janet Schmittgen	This course introduces students to the history and development of the Profession of Pharmacy with special emphasis placed on the history of pharmacy in Florida. Students will explore the growth of professionalism and professional organizations, commercial and industrial growth, development of education, governance of pharmacy, establishment of literature, and the development of the pharmaceutical sciences. Using primary sources and narratives, students will foster an interest in history of pharmacy and understand the impact that visionary leaders and		X	X	

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		entrepreneurs have made on the development of the profession by analyzing the personal and professional characteristics of these pharmacy heroes.				
Leadership for Pharmacy (2 Cr Hr – A-E grading)	Dr. Karen Whalen & Dr. Kate Smith	The purpose of this course is to introduce students to principles of leadership for pharmacists. The course emphasizes the process for leading change and the leader’s role in creating vision and serving as an agent of change. The student will learn how to use natural talents to strengthen leadership skills, develop strategies for overcoming common dysfunctions of a patient care team, and create and communicate a compelling vision for leading change in pharmacy practice. Topics in leadership are examined in the context of the patient care process, with the intent of encouraging students to be leaders within the pharmacy profession and on the interprofessional care team.		X	X	
Managed Care Pharmacy Practice (2 Cr Hr – A-E grading)	Dr. Robert Navarro	This elective course will provide student pharmacists with a practical understanding of managed prescription drug program operations found in Medicare, Medicaid, Exchange, and employer prescription drug benefits offered by insurance companies, health plans, and pharmacy benefit managers (PBMs). Students will apply managed care and patient care principles through active learning sessions that focus on population-based pharmacy benefit design, drug formulary development and management, quality and clinical programs, and pharmaceutical industry relationships. Active learning session case studies allow students to apply managed		X	X	

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		<p>care pharmacist activities to design population-based prescription drug benefit programs to achieve clinical and economic outcomes. Students will learn how managed prescription drug programs interact with community pharmacy practice and patient access to prescription drugs. This elective allows student pharmacists to apply managed care resources in care and disease management programs to improve patient engagement and health outcomes. Finally, this course will expose student pharmacists to numerous non-traditional professional practice opportunities through the synthesis of business and health care in various managed care organizations.</p>				
<p>Pharmaceutical Biotechnology (2 Cr Hr – A-E grading)</p>	<p>Dr. Sihong Song</p>	<p>This course offers the students comprehensive information about research related to pharmaceutical biotechnology and the development of biopharmaceuticals. The students will gain an understanding in both scientific knowledge of designing and producing novel biologics, and business challenges including regulatory issues.</p>		<p>X</p>	<p>X</p>	
<p>Thinking Skills in Pharmacy (2 Cr Hr – Contract grading)</p>	<p>Dr. Michael Schwartz</p>	<p>To develop an awareness through practice of how to think critically and creatively and to apply these skills both personally and professionally in pharmacy practice.</p>		<p>X</p>	<p>X</p>	
<p>Advanced Practices in Community Pharmacy (2 Cr Hr – A-E grading)</p>	<p>Dr. Stacey Curtis & Entrepreneurial Pharmacists</p>	<p>Develops skills for community practice related to entrepreneurial activities, sales and marketing, personal management, and best practices.</p>		<p>X</p>	<p>X</p>	

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Advanced Nonsterile Compounding (2 Cr Hr– A-E grading)	Dr. Cary Mobley	Discover the scope of non-sterile compounding practice and what this practice offers to help fulfill unmet needs in pharmaceutical care.			X	
Pharmacy Research in XXX (Variable Cr Hr {1-3}– Pass-fail grading) Course Numbers are by Dept: PHA 5901 Research in Pharmaceutical Outcomes PHAA 5902 Research in Pharmacodynamics PHA 5905 Research in Pharmaceutics PHA 5906 Research in Medicinal Chemistry PHA 5907 Research in Pharmacotherapy & Translational Research	See Syllabus for Faculty List	The purpose of this course is to introduce students to the scientific method and the process of research by participation in supervised pharmacy-related research. This opportunity will also allow the student to explore career opportunities in research. The student will participate in research under the direction of a College of Pharmacy faculty member. The student may also work closely with a graduate student or postdoctoral associate who is performing research supervised by a College of Pharmacy faculty member. It is expected that the exact format of the research experience will vary depending on the faculty, the type of research, and the student’s prior research experience. In some cases students may be participating in research conducted by more senior students, postdoctoral associates or graduate students; in other cases students may work independently on a project. In all cases, this course is expected to develop the student’s knowledge of research methods and skills in inquiry-based thinking and self-directed learning as well as allow the student to practice hands-on research skills, data collection, analysis and presentation.	X	X	X	Notes: 1. This course requires a pre-approval process. Students must identify a mentor/faculty member willing to supervise research. Both must sign “Appendix B” 2. Class sessions will occur across the Fall semester and therefore, is considered a course overload. Approval to take this course must be obtained from the Associate Dean of Student Affairs. 3. See course syllabus for number of laboratory hours per week/semester depending on the credit hours. Note: Tuition for these courses are included in the PharmD tuition block (and therefore, additional tuition is not paid).

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PHA 5XXX Special Populations (2 Cr Hr –TBD grading)				X	X	

Approved Elective Courses that are Outside of Block Tuition and are offered outside the PharmD Program Elective Blocks:

Course Title; Credits; Grading	Faculty	Course Purpose	1PD	2PD	3PD	Other Information
PHA 6935 Veterinary Pharmacy (2 Cr Hr – A-E grading)	Dr. Elaine Blythe	This one-of-a-kind course serves as the premier source for education of pharmacy students in veterinary pharmacy utilizing distance education. The courses allow all interested students the opportunity to gain knowledge and skills in this growing field of veterinary pharmacy and veterinary therapeutics. In the 10+ years that the course has been offered, over 2000 pharmacy students have participated from 60 different schools of pharmacy in North America.		X	X	Tuition is <u>not</u> covered under the Pharm.D block tuition. The tuition cost is \$575 per credit hr. (\$1150 for course) Summer Classes are May 8 - August 4, 2017
PHA 6557 Clinical Toxicology I (3 Cr Hr – A-E grading)	Dr. Oliver Grundman	This course provides students with knowledge about the toxic effects of a number of important therapeutic drug classes as well as additional insight into a number of organ systems that have not been covered in General Toxicology. Specifically, the course will cover the cardiovascular principles and which important drug classes are commonly involved with toxic side effects that might present to healthcare professionals. A number of medications used for the treatment of neurological and psychiatric disorders is also commonly associated with a wide range of toxic effects that require immediate attention in a clinical setting. Also, inherently linked to toxicity is the use of antibiotics and chemotherapeutics which display a number of specific toxic effects. Link to Details: https://clintox.cop.ufl.edu/programs/courses/pha-6557-clinical-toxicology-1/		X	X	Tuition is <u>not</u> covered under the Pharm.D block tuition. The tuition cost is \$575 per credit hr. (\$1725 for course) Summer Classes are May 8 - August 4, 2017

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PHRD 624 APhA Institute on Alcoholism and Drug Dependencies Semester (Offered by Notre Dame of Maryland University School of Pharmacy)		<p>For information see: https://www.pharmacist.com/sites/default/files/files/APhA%20Institute%20-%20PHRD%20624%20Course%20Syllabus%20-%20June%202016.pdf</p> <p>Although Notre Dame provides 2 credit hours for this course, the UF COP curriculum committee has approved this course for <u>one hour of transfer credit (pass/fail)</u>. This is based on the number of direct instructor contact hours and the lack of significant outside study or assignments.</p> <p>The COP Office of Student Affairs will accept the transfer credit, but only count it as <u>one credit hour</u>.</p>	X	X	X	<p>This is <u>not</u> covered by UF tuition. The student is responsible for all costs in registration and travel.</p> <p>Although Notre Dame provides 2 credit hours for this course, the UF COP curriculum committee has approved this course for <u>one hour of transfer credit (pass/fail)</u>. This is based on the number of direct instructor contact hours and the lack of significant outside study or assignments.</p> <p>The COP Office of Student Affairs will accept the transfer credit, but only count it as <u>one credit hour</u>.</p>

Only the courses listed above are approved for the elective requirements for the Pharm.D. degree.

The Curriculum Committee will not retroactively approve courses as an “approved elective.” If there are questions about a possible elective not on this list, the student should first seek approval by the Associate Dean for Curricular Affairs and the Curriculum Chair.