

WesternU COP
Fall 2021 Elective Course Summary

PHRM ELC1 Introduction to Clinical Research (1 Credit, Letter Grade)

Facilitator: Dr. Patrick Chan
Eligibility: P-1 & P-2
Term: Fall
Time: Thursdays 3:00-5:00pm (8 weeks)
Capacity: 5 - 40
Format: Combination of didactic and active learning
Grading: Letter Grade

Clinical research is defined as the study of a drug, biologic, or device in human subjects with the intent to discover potential beneficial effects and/or determine its safety and efficacy. This elective introduces students to clinical trials and basic clinical research principles for those interested in pursuing residency or a field of clinical research (fellowship, industry, FDA career). Throughout the elective course we will discuss principles of clinical research, experimental design, managing and monitoring clinical trials, and data management and analysis.

PHRM ELC3 Diabetes Advanced Elective – Online DM Educate (2 credits, Letter Grade)

Facilitators: Dr. David Pham
Eligibility: P2 & P3
Term: Fall & Spring
Capacity: 1-25
Format: Online modules, class does not meet in person
Grading: Letter Grade

This is a self-paced online series of videos and post-quizzes after the videos that expand your knowledge in diabetes care. There are multiple topics that each take varying amount of time, but overall accounts to about 2 hours/wk (30hrs overall) which can be done whenever throughout the course.

This comprehensive diabetes series includes drug therapy, but also history of diabetes, exercise and nutrition, how to manage inpatient diabetes, gestational diabetes, children with diabetes, physiological issues, and motivation interviewing. The course was created by the University of Pittsburgh (<https://www.dmecourse.pharmacy.pitt.edu/>), but the modules were created by Certified Diabetes Educators (CDEs) from all over the country.

PHRM ELC4 Independent Research (1 Credit, CR/NCR) FALL & SPRING

Facilitators:	Individual Faculty Preceptors
Eligibility:	P1-P3
Prerequisite:	Consent from faculty preceptor
Term:	Fall & Spring
Time:	Depends on faculty preceptor
Capacity:	Unlimited
Format:	Research
Grading:	CR/NCR

This block introduces the student pharmacists to independent research experiences under the supervision of a faculty member. The research experience may vary from bench research (pharmaceutical sciences) to clinical translational research (pharmacy practice). Student pharmacists will be expected to participate in research activities at the rate of 3 hours per week per credit. 30 hours of research must be completed by the end of the semester to earn a grade for the elective course. Schedules for research will be determined by the student pharmacist in consultation with the faculty preceptor. Student pharmacists will only be allowed a maximum of 2 professional elective credits over two semesters (1 credit each). Any additional research elective course while eligible for course credit, will not be counted towards the overall elective degree requirement.

Please note that all faculty members may not be able to offer the research elective course. Thus, the student pharmacist must email the faculty member directly to enquire about any openings for the desired semester (see faculty research and specialty profiles <http://www.westernu.edu/pharmacy/>). If a position is available, the student pharmacist must choose the “independent research” elective course during semester course registration.

PHRM ELC6A Seminar in Professional Development (1 credit, CR/NCR)

Facilitator:	Dr. Jason Wong
Eligibility:	P1, P2 and P3
Term:	Fall
Time:	Wednesdays 12-1pm
Capacity:	50 – 140
Format:	Seminar by guest speakers, self-reflections
Grading:	Cr/NCR

This seminar elective provides presentations related to careers, leadership, management, legal and regulatory issues and other topics related to professional and personal development. This seminar course will give 1 unit of credit for attending a minimum number of these presentations and writing a minimum number of reflections. Open to year 1 PharmD students and year 2 PharmD students that have not taken the course previously. Course is offered in both fall and spring terms. See registration notification for capacity, course dates/times.

PHRM ELC12 Immunotherapies (1 Credit, CR/NCR)

Facilitator: Dr. David Sanchez
Eligibility: P2 or P3
Term: Fall
Time: Fridays 1:00 pm – 3:00 pm
Capacity: 6 - 25
Format: Didactic/Discussion
Grading: CR/NCR

Course Description

This course provides an overview of commonly used immunotherapies and discussion of the disease states they can target. Discussions on the pros and cons of the immunotherapies are presented. Additional presentations from clinical and industry perspective are presented to give an overview of the role of pharmacists in working with these therapies.

PHRM ELC20 STRESS MANAGEMENT FOR STUDENT PHARMACISTS: MMY METHOD (MINDFULNESS, MEDITATION AND YOGA) (1 Credit, CR/NCR)

Facilitators: Dr. Anandi V. Law, B.Pharm, PhD, FAPhA, *Certified Yoga Instructor*
Eligibility: Fall P1, P2 & P3; Spring P1 & P2
Prerequisite: None
Term: Fall & Spring
Time: Friday 1:00-3:00PM and offline (other days 3:00-5:00PM possibility)
Capacity: minimum 5, maximum 15
Format: Combination of in-class and homework
Grading: CR/NCR

This elective is designed as an introductory to intermediate level course for the student pharmacist to learn basic techniques of Yogic breathing (Pranayama), postures (asanas), mindfulness and meditation towards relaxation and stress reduction. The benefits of the course are intended to be both short and long term, dependent on individual levels of practice.

PHRM ELC22 The Pharmacist & Patient Centered Diabetes Care Certificate Training Program (APhA) (2 Credit, Letter Grade)

Facilitator:	Dr. Hyma Gogineni & Dr. Josephine Aranda
Eligibility:	P-2 & P-3 (Fall) P2 (Spring/Summer)
Term:	Fall, Spring & Summer
Time:	Saturdays 8:00-5:00pm (1 Weekend)
Capacity:	20-60
Format:	Self-Study Component - Pre-requisite before attending the live session Self-Study Assessment (two opportunities to pass with a score of 70% or higher) Pre-seminar patient cases Live seminar component – required to attend full 8-hours Post-seminar component – post-test, complete evaluations & claim credit Combination of didactic and active learning
Grading:	Letter Grade
Cost:	\$130.00 to be paid by student for APhA certificate

The Pharmacist and Patient-Centered Diabetes Care is an APhA Certificate Training Program that many employers are requiring this certification program in both community and ambulatory care settings to advance the profession of pharmacy. This is an intensive training program designed for student pharmacists to equip with the knowledge, skills, and confidence needed to provide effective, evidence-based diabetes care. Five self-study modules provide comprehensive instruction in current diabetes concepts and standards of care. The live seminar incorporates case studies and hands-on skills focused on the situations most likely to be encountered in community and ambulatory care practice settings. Students will refine their skills on evaluating and adjusting drug therapy regimens for patients with type 1 and type 2 diabetes, counseling patients about lifestyle interventions, analyzing and interpreting self-monitoring of blood glucose results, and assessing the overall health status of patients to identify needed monitoring and interventions.

NEW ELECTIVES FOR 2021-2022 ACADEMIC YEAR

PHRM ELC27 Transgender Health (2 Credit, Letter Grade)

Facilitator: Dr. Hyma Gogineni
Eligibility: P2 & P3 (Fall); P2 (Spring)
Term: Fall, Spring
Time: Saturday 8 am - 5 pm (1 weekend)
Capacity: 20 - 60
Format: Self-Study Component - Pre-requisite before attending the live session
Self-Study Assessment (two opportunities to pass with a score of 70% or higher)
Pre-seminar patient cases
Live seminar component – required to attend full 8-hours
Combination of didactic and active learning
Grading: Letter Grade

This course will introduce student pharmacists to the terms, concepts and guidelines related to transgender health. In addition, student pharmacists' will gain insights into cross-sex hormonal therapy (CSHT) specific to transgender health and addressing primary care, preventive, and mental health perspectives of transgender patients. The live seminar incorporates active learning through interactive case studies and group discussions.

PHRM ELC28 Advanced Informatics (1 Credit, CR/NCR)

Facilitator: Dr. Don Roosan
Eligibility: P-2 & P-3 (Fall) P2 (Spring/Summer)
Pre-requisites: None
Term: Fall, Spring
Time: TBD
Capacity: 6-12
Format: Self-Study Component - Prerequisite learning from papers and video sessions
Didactic
Team-Based Component
Student Presentations
Grading: CR/NCR

This elective will serve as a project-based course in various areas of how health informatics relates to the real world. Students will be partnered in teams to work on specific project as required at the time. Students will have the ability to work together to create presentations on assigned research topics and projects in regard to health technology and the impact on patient care. The elective will be a mixed approach with current papers and topics in informatics as well as project based. Student pharmacists will learn about advanced topics about various aspects of informatics. At the end of the course, a presentation of findings will be given by the student teams.

PHRM ELC30 Introduction to Pharmaceutical Research (1.0 credit, CR/NCR, Fall)

Facilitator: Dr. Jeffrey Wang
Eligibility: P-1, P-2, P-3
Term: Fall
Time: Thursdays 3:00-5:00 pm (8 weeks)
Capacity: 5 - 25
Format: Combination of didactic and active learning
Grading: CR/NCR

Pharmaceutical research produces drug products for treating various human diseases. This elective introduces the student pharmacist to the interdisciplinary nature and practice of pharmaceutical research. Throughout the course the student pharmacist will learn the history, science, scope, experimental design, intellectual property, and the skills to critically evaluate pharmaceutical research publications. The emphasis will be placed on pharmaceutical innovation.