

School of Pharmacy

Medicinal Chemistry

MEDCH 435 Diagnostic Medicinal Chemistry (3) *S. Nelson* Examination of clinical diagnostic tests with regard to the chemical or biochemical rationale of the testing method, interpretation of test results, and major factors influencing test values with special emphasis on the effects of medications. Clinical laboratory data from patients considered in light of these factors. Prerequisite: MEDCH 451/BIOC 406 or equivalent, or permission of instructor. Offered: W. Class 2,3,4. Highly recommended in year 2.

MEDCH 495 Special Studies in Medicinal Chemistry (*, max. 6) Opportunity to expand the breadth and depth of understanding in specific areas. Credit/no credit only. Prerequisite: permission of instructor. Instructor ID required to register. Offered: AWSpS. Class 1,2,3,4.

MEDCH 499 Independent Study/Research (*, max. 24) Research problems in medicinal chemistry. Prerequisite: cumulative GPA of 2.50 and permission of instructor. Instructor ID required to register. Offered: AWSpS. Class 1,2,3,4.

Pharmaceutics

PCEUT 499 Undergraduate Research (1-6, max. 12) Research problems in drug disposition, drug targeting, and drug development. Prerequisite: Cumulative GPA of 2.5 and permission of the instructor. Instructor ID code required to register. Offered AWSpS. Class 1,2,3,4.

PCEUT 598 Independent Research (*, max. 24) Basic and clinical research problems in drug disposition and effect. Prerequisite: 2.5 GPA and permission of instructor. Instructor ID code required to register. Offered AWSpS. Class 1,2,3,4.

Pharmacy

PHARM 517 Product Development and Manufacturing Systems (3) *Hazlet* Surveys government oversight of drugs, devices, and biotechnology derived products; laws and regulations that apply to development, testing, and production. Offered W. Class 1,2,3,4. Permission of instructor (need entry code).

PHARM 521 P-Pharmacy Teaching Practicum (1-3, max 6) *Hammer, Dawson* Allows students the opportunity to apply learning about education in a mentored experience. Students serve as assistant instructors in existing pharmacy courses or engage in other

approved educational experiences. Prerequisite: PHARM 505. Offered AWSpS. Class 2,3,4 or permission of instructor.

PHARM 524 P-Institutional and Healthcare Systems Pharmacy Practice (2) *Somani*, Presentation of topics regarding current contemporary institutions pharmacy practice. Discussion of new systems technology, home care programs, managed care, computer applications, budgeting, formulary systems, drug information services, intravenous admixture programs, quality assurance process, and patient oriented services. Offered W. Class 1,2,3,4.

PHARM 526 P-Introductory Pharmacy Practicum (3) *O'Sullivan*, Preparation and dispensing of prescriptions at Rubenstein Memorial Pharmacy in Hall Health Center or other selected community pharmacies. Designed for Pharm.D. students with little or no experience in pharmacy. Under direct supervision of clinical faculty and other licensed pharmacy preceptors. Please submit 526 paperwork located on the practicum web site (depts.washington.edu/pharmopp/) to Mary Neyhart. Instructor ID code required. Credit/no credit only. Offered AWSpS. Class 1.

PHARM 529 P-Experiential Learning (1-6, max. 12) *O'Sullivan*, Under faculty supervision, pharmacy students gain experience working on advanced practice projects, in a pharmacy practice setting, prior to the final year of the pharmacy program. Prerequisite: satisfactory completion of the first quarter of pharmacy school. Credit/no credit only. Offered AWSpS. Class 2,3,4. (If replacing either PHARM 527 or PHARM 528 as a core course, cannot be applied toward professional elective credits.)

PHARM 535 Assessment Outcomes in Health and Medicine (3) *Patrick*, Concepts and methods for evaluating cost and outcomes of health and medical interventions with a focus on cost-effectiveness analysis, pharmacoeconomics, health and quality of life assessment, resource allocation, and medical decision-making. Offered: jointly with HSERV 584. Prerequisite: permission of instructor (entry code needed). Offered W. Class 3,4 with permission of instructor (entry code needed).

PHARM 538 P-Chemical Dependency Issues in Practice (3) *Kedzierski*, Emphasis on pharmacologic management of abstinence and withdrawal, drug testing, drug use in pregnancy, treatment options and recovery, codependency, impaired pharmacist rehabilitation and legal and ethical considerations. Prerequisite: PHARM 537 Credit/no credit only. Offered W. Class 2,3,4.

PHARM 542 P-Managed Care Pharmacy: Principles and Practice (3) *Fullerton, Penna*, Surveys the activities, tactics, and strategies used by managed care to deliver pharmacy services to their members. Includes: formulary development, clinical improvement programs, quality improvement measures, regulatory activities, contracting with pharmaceutical manufacturers, network management, financial issues, sales and market, and provider relations. Offered W. Class 2,3,4.

PHARM 544 Survey of Pharmacy Laws (1) *Hazlet*, Prepare, discuss and present responses to assigned questions developed by faculty regarding laws governing pharmacy practice in the course of reviewing for the Multistate Pharmacy Jurisprudence Examination. Class meets for two consecutive Saturdays in February -March. E-mail and web-access required. Non-matriculated students by permission only. Credit /no credit only. Offered W. Class 4 or UW Educational Outreach/Shared Access.

PHARM 545 P-Pharmacy Business Plan Development (1) *Downing, Gardner*, Develop a business plan for purchasing an independent pharmacy. Prerequisite PHARM 540. Offered WSp. Credit/no credit only.

PHARM 547 P-Gerontological Communication Skills Seminar (2) *Dawson*, Addresses special communication needs of the elderly, ranging from individualized patient counseling to patient advocacy through development and provision of pharmacy services. Communication techniques applicable to teaching, developing innovative services, supervising, motivating, conflict resolution, and interdisciplinary interactions are explored in lecture and laboratory. Geriatric Certificate students have priority registration. Credit/no credit only. Offered W. Class 2,3,4.

PHARM 548 P-Pharmaceutical Services for Long-Term Care (2) *Lam*, Scope of pharmaceutical services for long-term care (LTC) and systems for services. Responsibilities of the pharmacist for distributive, administrative, and clinical pharmacy services for nursing homes and other long-term-care facilities. Economic considerations in provision of LTC pharmaceutical services, role of the consultant pharmacist for home-health-care organizations. Pharmaceutical services for independently living elderly. First year students should consult instructor prior to enrolling. Offered W. Class 1,2,3,4.

PHARM 550 Current Topics in Geriatric Pharmacotherapy (1) *Gray*, Review primary medical literature to discuss contemporary issues related to geriatric pharmacotherapy. Prerequisite: PHARM 509 or permission of instructor. Credit/no credit only. Offered W. Class 3,4.

PHARM 567 P-Cancer Pharmacotherapeutics (2) *Kwok*, Pharmacotherapy of cancer, covering supportive care (antibiotics, antiemetics, analgesics, nutrition) to the antineoplastic agents themselves. Specialists in each area serve as guest lecturers. Offered W. Class 3,4.

PHARM 578 Advanced Elective Practicum (1-10, max. 20) *O'Sullivan*, Faculty-supervised practicums either in areas of traditional practice or in innovative practice plans designed by faculty and student. Objectives, activities, schedules, and lengths are site- and preceptor- specific. Entry code required. Credit/no credit only. Offered AWSpS. Class 4.

PHARM 580 P-Cases in Pharmaceutical Care (3, max. 9) *Dawson*, Small groups of students work with an instructor to review cases illustrating various aspects of specific diseases: pathophysiology, clinical features, psychosocial factors, therapeutic interventions with emphasis on drug therapies, and community resources. Analytic reasoning, self-study skills, and knowledge are emphasized. Offered AWSp. Class 2,3,4 or permission of instructor (entry code needed).

PHARM 581 P-Global Health Pharmacy: Medicines, Practice, and Policy (2) *Garrison, Stergachis* Introduces the critical role of pharmaceuticals in addressing the major diseases, such as HIV/AIDS, malaria, tuberculosis, affecting persons in resource-limited settings. Multidisciplinary faculty address the wide range of relevant issues, including burden of disease, human resource capacity, regulation, drug safety/pharmacovigilance, drug distribution, pharmacoeconomics, financing, intellectual property, and drug trade policies. Credit/no credit only. Offered W. Class 1,2,3,4.

PHARM 584 P-Pharmacy and Patient Advocacy (1/2, max, 3) *Capoccia, Dawson, Downing, Gardner, Hazlet, Murphy, Odegard*, Prepares PharmD students to become aware of and put into action their role as change agents in the advocacy of patients and the pharmacy profession. Prerequisite: two credit option requires satisfactory completion of the 1 credit lecture/discussion component. Offered W. Class 1,2,3,4.

PHARM 588 Diabetes Care (2) *Odegard, Capoccia*, The purpose of this course is to further develop the student's foundation in the principles of diabetes management and provide practice in application of diabetes care principles. The student will develop their knowledge and ability to assess, manage, educate and monitor patients with diabetes. This course includes internet-based self-study. Credit/ no credit. Offered W. Class 3,4.

PHARM 595 Special Studies in Pharmacy (1-6, max. 24) Special studies of professional topics in pharmacy. An opportunity to expand the breadth and depth of understanding in specific pharmaceutical areas. Students may undertake independent study under the individual direction of a faculty member. Instructor ID code required to register. Credit/no credit only. Offered AWSpS. Class 1,2,3,4.

PHARM 596 Seminars in Pediatric Pharmacotherapy (2) *Weber, Harvey*, Overview of drug disposition and medication utilization as it applies to the pediatric patient. Specific emphasis on neonatology and ambulatory pediatrics. Credit/no credit only. Offered W. Class 3,4 or permission of instructor.

PHARM 598 Case Conference: Geriatrics (1) *Plein*, Students taking geriatric pharmacy clerkships in various clinical settings meet with faculty to present case studies of elderly patients requiring complex drug therapies. Credit/no credit only. Prerequisite: Geriatric Certificate program student or permission of instructor. Offered AWSp, Class 4.

PHARM 599 Independent Study/Research (1-6, max. 24) Applied pharmaceutical research problems. Instructor ID code required to register. Credit/no credit only. Offered AWSpS. Class 1,2,3,4.