

# Professional Electives Taught Outside the School of Pharmacy

Courses from other departments may require entry codes or that non-majors wait until after Period 1 to register. Please consult the Time Schedule for the most current information.

## **B A 470 Accounting and Finance for Non-business Majors (3)**

Addresses economic foundations of demand, supply, and costs as basis for accounting system. Focuses on using data for evaluating performance, budgeting and financial statement analysis. Short-term and long-term decision making compared. Not open for credit to students pursuing a Business degree. Offered: A.

**B A 471 Marketing Analysis and Strategy for Non-business Majors (3)** Provides understanding of marketing principles and their usefulness in diverse business and organizational situations. Includes study of controllable and uncontrollable factors in making marketing decisions; developing working knowledge of marketing strategy and understanding of implications of product life cycle for decision-making. Not open for credit to students pursuing a Business degree. Offered: W.

**B A 472 Managing Human Assets for Non-business Majors (3)** Deals with understanding management of human resources in businesses and other organizations. Includes study of relevant theories and research, analyses of cases, and experiential exercises including overview of new work place, diversity, leading, deciding, negotiations, attracting, motivating and rewarding, and team management. Not open for credit to students pursuing a Business degree. Offered: Sp.

**B CMU 301 Basic Written Business Communications (4)** Broad analytical approach to written communications as a management tool. Analysis of the psychology, semantics, planning, and principles of effective business writing. Practical application through messages that inform and persuade, grant and refuse; plus short business reports and applications for positions. Cannot be taken for credit if B CMU 302 already taken. Offered: AWSp.

**COM 320 Public Speaking (5)** Practice in preparation and presentation of a variety of types of public speeches based on study of their structure and form; emphasis on organization and delivery. Prerequisite: COM 220.

**COM 334 Essentials of Argument (5)** Argument as a technique in the investigation of social problems; evidence, proof, refutation, persuasion; training in argumentative speaking.

## **CONJ 515 Interdisciplinary Health and Human Services Delivery in Rural Communities (1)**

Provides opportunities for students in health and human services to explore current trends and issues of service delivery in rural communities. Demographics, economics, community structure, culture, and professional/personal issues are addressed. Prerequisite: major standing in a health or human services profession. Credit/no credit only.

**CONJ 550 P-Clinical Infectious Diseases (3)** Lecture series by faculty members from various departments, authorities in the field of clinically important infectious diseases. Lectures, reading assignments, and handouts emphasize epidemiology, clinical manifestations, laboratory findings, diagnosis, treatment, and prevention. Oriented for second-year medical students. Credit/no credit only. Prerequisite: HUBIO 521, Pharm 560 or permission of coordinator, Department of Medicine. W Class 3,4

**ECON 300 Intermediate Microeconomics (5)** Analysis of decisions by individuals and by firms and of outcomes in factor and product markets. Policy issues and applications. Prerequisite: ECON 200; either MATH 112, MATH 124, MATH 127, MATH 134, or MATH 145. Offered: AWSpS.

**ENV H 405 Toxic Chemicals and Human Health (3)** Basic principles governing the behavior and effects of toxic chemicals released into the environment; sources, distribution, and fate of toxic chemicals in the environment; chemicals and cancer; chemicals and birth defects; government regulation of chemical hazards. Focus on human health impacts of chemicals found in the workplace and general environment. Prerequisite: 2.0 in BIOL 220; and 2.0 in CHEM 224 or 2.0 in CHEM 239 or 2.0 in CHEM 337. Offered: Sp.

**EPI 511 Introduction to Epidemiology (3-4, max. 4)** Epidemiologic methods for non-epidemiology majors. Focuses on research designs and methods to describe disease occurrence and risk factor associations; uses quantitative and biomedical information to infer whether causal relationships exist between potential causes and disease in populations. Offered: A.

**FAMED 547 Spirituality in Medicine (2)** Examination of the beliefs, values, meaning, and spirituality of health professionals for the well-being of their patients as well as for themselves. Offered: jointly with MHE 518. Entry code required.

**FAMED 556 Spanish for Health Professionals (1)** Instruction in interviewing Spanish-speaking patient. Credit/no credit only. Prerequisite: health professions student. Entry code required.

**HSERV 504 Health Communication ([1-3]-, max. 3)** Downer Overview of the theory and practice of designing, producing, and evaluating public health communication campaigns, including the use of mass media. Develops greater capacity for critical judgment about the use of communication strategies for achieving public health goals.

**HSERV 505 Topics in Preventive Medicine (2)** Goldbaum Examines current scientific knowledge and state of the art of preventive medical interventions. Discusses and considers options for current practice. Recommended for MDs, RNs, and others with a clinical background. Credit/no credit only. Offered: jointly with EPI 525.

**HSERV 507 Communication for Health Promotion: Theory and Application (3)** Meischke Discuss and evaluate health communications theories and applications at the individual level (i.e., persuasion), interpersonal level (i.e. doctor/patient communication), and societal level (i.e., mass media). Investigate intercultural communication cutting across all levels of health communication. Examines the steps involved in the design of a health communication intervention.

**MEBI 520 Teaching Methods in Medical Education (2)** Empirical and theoretical merits of different teaching methods as applied to medical education. Structuring and leading group discussions, using questions, organizing and delivering lectures, identifying styles of clinical supervision, providing constructive feedback, and presenting effective clinical demonstrations. Offered: W.

**MEBI 521 Evaluation of Learning in the Health Sciences (3)** Basic issues and methods for evaluation of learning: cognitive performance, psychomotor skills, and reasoning abilities in classroom, laboratory, and clinical settings. Practical applications of instruments such

as multiple-choice questions, essays, oral examinations, checklists, rating scales, simulations, and patient management problems. Recommended: 520. Offered: Sp.

**MEBI 522 Research in Medical Education (2)** Individualized, problem-based overviews of research methods and research design pertinent to research and scholarship in medical education. Development and sequencing of research projects from conceptualization through literature review, including proposal development, project implementation, data management, analysis, and write-up. Assessment and critical reading of related literature stressed. Offered: A.

**MHE 474 Justice in Health Care (5)**

Examination of the ethical problem of allocating scarce medical resources. Emphasis on fundamental principles of justice that support alternative health policies. Recommended: prior courses in philosophy or medical ethics. Offered: jointly with PHIL 411. Entry code needed.

**MHE 481 The Pursuit of Health in American Society (3)** Examination of the development of concern for personal health over the past two centuries, and of the evolution of philosophies and practices of health promotion. Emphasis on the influence of both medicine and popular culture on shaping of attitudes toward diet, exercise, dress, sex, and other health behavior. Entry code needed.

**MHE 501 Alternative Approaches to Healing (2)** Philosophies and practices of the major alternative approaches to healing. Historical characterization of alternative medicine accompanied by presentations by practitioners of chiropractic, naturopathic, homeopathic, and traditional Chinese medicine. Credit/no credit only.

**MHE 518 Spirituality in Medicine (2)** Examination of the beliefs, values, meaning, and spirituality of health professionals for the well-being of their patients as well as for themselves. Offered: jointly with FAMED 547. Entry code needed.

**MHE 521 The Ethical Challenges of Modern Medicine (3)** Case-study approach to contemporary ethical issues in medicine, utilizing techniques of ethical analysis and argument in examining actual cases arising in our pluralistic culture, where values are often in conflict. Open to graduate and professional students and others with appropriate background. Entry code needed.

**MHE 522 Ethical Problems Surrounding Death (3)** Issues arising in care and treatment of dying patients and their families, including truthful disclosure, use of life-supports, "euthanasia," coping with death and grief. Intersection of patient and professional values related to care in terminal phase of illness. Open to graduate and professional students and others with appropriate background. Entry code needed.

**MHE 523 Biomedical Ethics (3)** Selected topics in medical ethics emphasizing methods of ethical reasoning about moral dilemmas and contributions of philosophical theories and principles to practical problems of medicine. Students provided with opportunities to test their value assumptions and analytical skills. Open to graduate and professional students and others with appropriate background. Entry code needed.

**MHE 535 Medical Ethics and Jurisprudence (3)** Relationship between bioethics and law. Review of basic concepts of both disciplines; their theoretical and practical connections. Analysis

of principal legal cases and statutes illustrating such issues as informed consent to treatment, foregoing life support, research with human subjects, confidentiality, allocation of health care resources. For graduate and professional students. Entry code needed.

**MHE 541 Exercise in Modern Medicine (1)** Survey of role and place of exercise in modern medicine. Historical and contemporary analysis of physical activity and sports medicine in the American health system. Presentations by clinicians about their experiences in: orthopaedics, exercise physiology, sports nutrition, sports psychology, pediatric sports medicine, special issues of female athletes, environmental medicine. Entry code needed.

**MKTG 490 Special Topics and Issues in Marketing (1-6, max. 12)** Contemporary topics and issues in marketing: marketing in nonprofit organizations, marketing of services, marketing in the public sector, and marketing in an economy of scarcity. Ordinarily only one topic area is addressed in any one quarter. Course content reflects contemporary developments and the current interests of instructors and students. Prerequisite: MKTG 301. Entry code required.

**MKTG 495 Marketing Internship (1-4, max. 8)** An internship with a company, not for profit organization, or government agency in a marketing capacity. Prerequisite: MKTG 301. Credit/no credit only. Entry code required.

**NUTR 562 Nutrition and Chronic Disease (4)** Epidemiology/pathophysiology of chronic disease related to nutrition (e.g., obesity, cardiovascular disease, osteoporosis, hypertension, diabetes). Examines nutritional risk/protective factors in relation to public health, individual nutrition, and clinical intervention. Prerequisite: physiology, biochemistry. Offered Sp. Entry code needed.

**OPMGT 301 Principles of Operations Management (4)** Examines problems encountered in planning, operating, and controlling production of goods and services. Topics include: waiting-line management, quality assurance, production systems, project management, and inventory management. Computer and quantitative models used in formulating managerial problems. Prerequisite: ACCTG 225; ECON 200; either MATH 112, MATH 124, MATH 134, or MATH 145; either ECON 311, IND E 315, QMETH 201, Q SCI 381, PSYCH 315, PSYCH 318, STAT 220, STAT 301, STAT 311, or STAT 390.

**PATH 444 General and Systemic Pathology ([2-3])** Basic pathologic processes that underlie disease, including cell alterations, genetic and developmental pathology, environmental pathology, neoplasia, immunopathology, inflammation, infection, and systemic diseases. Correlates gross, functional, and biochemical alterations. For first-year dental students and graduate students. Requires reasonable grounding in biological and chemical sciences. Prerequisite for nondental students: permission of instructor. **Must take both Winter and Spring quarter courses to receive credit.**

**PEDS 506 Interdisciplinary Seminars in Adolescent Health (1)** Focus on interviewing adolescents, health problems, public health issues, and health care policy. Prerequisite: graduate or professional student status.

**PHG 513 Basic Concepts in Pharmacogenetics and Toxicogenomics (3)** Addresses current DNA sequencing and genotyping approaches, and basic concepts of pharmacogenetics and toxicogenomics. Emphasis placed on applications of genomic technologies to the understanding of "gene-environment interactions" that cause diseases of public health importance, including

cancer, chronic neurological diseases, and adverse drug reactions. Prerequisite: GENET 372 or equivalent. Offered: jointly with ENV H 513/PCEUT 513

**PSYCH 345 Social Psychology (5)** The scientific study of how people's thought, feeling, and action influence, and are influenced by, other people. Prerequisite: 2.0 in either PSYCH 202 or PSYCH 209.

**PSYCH 451 Health Psychology (5)** Overview of the psychological and behavioral factors in health and disease. Includes research on both psychological causes and treatments. Topics include stress, risky behaviors, patient-provider interactions, pain, behavioral/medical treatments, and lifestyle interventions. Prerequisite: 2.0 in PSYCH 202; 2.0 in PSYCH 209; 2.0 in either PSYCH 303, or PSYCH 345.

**UCONJ 411 Psychology of Aging (3)** Focuses on developing the skills necessary for critically evaluating current psychological theories of aging, research findings in this area, and the implications of findings on the aging person. Special consideration given to the effects of socioeconomic, sex, and ethnic differences in the psychology of aging. Open to upper-division undergraduates and beginning graduate students interested in the field of gerontology.

**UCONJ 440 Biological Aspects of Aging (3)** Introductory course on aspects of the biology of human aging and of functional changes associated with normal aging and with those illnesses that may be present in the elderly. Focus on the relationship between changes in physical function, environment, and quality of life. Includes theoretical perspective on aging as well as the aging process in specific physiological systems. Designed for upper-level undergraduate students with an interest in aging.

**UCONJ 442 Social and Cultural Aspects of Aging (3)** Involves faculty members from the various social science fields examining the range and variation of relationships among age-linked attitudes and cultural values related to aging; the social and economic factors that influence the elderly in contemporary society; the effects of ethnic and sex differences in sociocultural aging. Open to upper-division undergraduates and beginning graduate students interested in gerontology.

**UCONJ 444 Interdisciplinary Collaborative Teams in Health Care (1-5, max. 10)** Course open to students in UW Health Sciences schools. Students function as an interdisciplinary learning group within a problem based learning framework. The primary goal of the course is to promote the development of interdisciplinary practice in the care of urban and rural underserved patient populations. Credit/no credit only. Entry code needed.

**UCONJ 445 Bioterrorism Awareness for Health Professionals (1)** Provides content in bioterrorism awareness for students in the health professions. First in a two-course interdisciplinary sequence focusing on awareness level training designed to enhance recognition of an injury of illness potentially arising as a result of exposure to select chemical and biological agents. Credit/no credit only. Entry code needed.

**UCONJ 446 Bioterrorism Preparedness and Response for Health Professionals (2, max. 6)** Focuses on bioterrorism preparedness and response for health professionals. Includes planning, system, and policy issues with an emphasis on clinical relevance. Content compliments UCONJ 445 (not a prerequisite). Credit/no credit only. Entry code needed.

**UCONJ 450 Health Care in the Underserved Community (1)**

Recommended for students who will be working with underserved communities. Students will practice interprofessional patient care. Credit/no credit. Offered W

**UCONJ 490 Social Sensitivity in Health Care (3)** Multidisciplinary course for health professions students. Health professionals' roles in dealing with social, cultural, and physical barriers to health care of low-income groups and ethnic people of color. Personal involvement through field experiences and faculty drawn from affected communities as well as health sciences, social work schools. Credit/no credit only.

**UCONJ 497 Health Care in a Rural Community (3)** Critical analysis built upon concepts relative to interdisciplinary health-care delivery in a rural community. Students develop an organizational model for rural health care and study innovative ways of mobilizing community resources and support for a comprehensive rural health-care system. Pharmacy students, nurses, and other health professionals study application of theory in an appropriate clinical setting within the conceptual framework of each student's professional field.

**UCONJ 501 International Health (1)** Weekly seminar introduces students to issues and opportunities of participating in health care systems in other countries. Guest speakers bring many perspectives of international health care experiences. Class discussions help prepare students for international placements. Credit/no credit only.

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**UCONJ 503 International Health (1)** Weekly seminar introduces students to issues and opportunities of participating in health care systems in other countries. Guest speakers bring many perspectives of international health care experiences. Class discussions help prepare students for international placements. Credit/no credit only.

**UCONJ 505 Professional Interpersonal Styles of Communication with Families to Enhance Health Outcomes (3)** Complex communication processes evaluated and applied to the family as unit of interaction within interdisciplinary context. Empirical based communication practices analyzed considering family variables adherence, satisfaction, health outcomes, and cost effectiveness. Engagement in experiential learning through challenging clinical scenarios. Emphasizes cultural competencies. Prerequisite: professional student or permission of instructor.

**UCONJ 513 Dynamics of Patient Management: Diabetes Mellitus (2)** Analysis of advanced knowledge related to interdisciplinary management of diabetes. Commonalities and differences in provider approaches, recent research and its effect on management practices, collaborative communication, knowledge application. Brief interactive presentations, decision-making opportunities, discussion. Credit/no credit only. Prerequisite: graduate standing in pharmacy, dietetics, nursing; third- or fourth-year medical student; or permission of instructor.

**UCONJ 530 Issues in Indian Health (3)** Survey of historical and contemporary issues in Indian Health. Covers Indian contributions to health, traditional Indian Medicine, current disease epidemiology, development of Federal Indian Health policy, the Indian Health Service, tribal

health programs, and consequences of major legislation on Indian Health. Prerequisite: current health science student or permission of instructor.

**University of Utah School of Alcoholism and Drug Dependencies (3)** To provide information, motivation and guidance for pharmacists or pharmacy students who currently participate in or wish to become involved in the planning, implementation, or strengthening of state-level and campus-level programs to help pharmacists or pharmacy students whose competence to perform their responsibilities has become impaired due to chemical dependency or other causes and assisting them in finding treatment, ongoing recovery and reentry into the practice of pharmacy or their pharmacy education. Contact Micki Kedzierski for more information.

### **Elective Alternatives**

There may be instances where a student has an alternative pharmacy career goal that is not addressed by these electives. If this is the case, the student should discuss specific career goals with an academic adviser or faculty member. The student may then request the course be applied to professional electives by contacting Nanci Murphy ([murphyna@u.washington.edu](mailto:murphyna@u.washington.edu)) in the Office of Academic and Student Programs.

Please note that courses may not be taught every year. This list is subject to change upon action of the Curriculum Committee of the School of Pharmacy and the University of Washington.