

Possible Courses for DNP Students

The following lists of existing courses are those courses recommended for DNP and GNM-DNP students as courses that might be applied towards individual programs of study. However, students need to be advised that each DNP student's program of study must be approved by his or her Practice Doctorate Supervisory Committee and the student must be able to justify why any course should apply.

ADVANCED PRACTICE

Note: Some courses listed in Advanced Practice could be considered Leadership or Practice Inquiry. A course may be used for requirements in only one dimension.

Graduate Nursing Courses

NSG 501 Teacher Practice Essentials-Models of Teaching & Learning (3)

Integrative approach to understanding teaching learning that explores how various educational models and principles frame the processes of teaching and learning. Focus toward advanced practice nurses interested in teaching. Prerequisite: permission of instructor and graduate student status. Concurrent Practicum NCLIN 509 (2)

NSG 502 Advanced Teacher Practice Essentials-Expertise in Teaching (3)

Critical analysis of how educational models and principles frame teaching to promote expertise in practice. Aimed toward advance practice nurses interested in teaching. Builds and expands content of NSG 501. Prerequisite: NSG 501 and graduate student status. Concurrent Practicum NCLIN 509 (2)

NSG 503 Advanced Teacher Practice Essentials-Diverse Learners (3)

Focus on relevance and inclusiveness of addressing diversity of learners within teaching and learning activities. Aimed toward advance practice nurses interested in teaching. Further expands content of NSG 501 and NSG 502. Prerequisite: NURS 501 and graduate student status. Concurrent Practicum NCLIN 509 (2)

NSG 504 Advanced Teacher Practice-Challenges in Teaching (3)

Focus on challenges facing educator during teaching encounters. Addresses influence of belief structures on learner's motivation for change. For advance practice nurses interested in teaching. Prerequisite: NSG 501 and graduate student status. Concurrent Practicum NCLIN 509 (2)

NURS 502 Human Responses in Health and Illness I (3)

Survey of selected human responses to environmental demands in health and illness as expressed at physiologic, pathophysiologic, experiential, and behavioral levels. Such concepts as host defenses, ventilation, circulation, elimination, and nutrition are discussed. Prerequisite: graduate standing.

Instructor Course Description: [Sandra Adams Motzer](#)

NURS 503 Human Responses in Health and Illness II (3)

Survey of selected human responses to environmental demands in health and illness at physiologic, pathophysiologic, experiential, and behavioral levels. Such concepts as immune response, stress response, circadian rhythms, pain, sleep, cognition, and consciousness. Prerequisite: graduate standing.

NURS 509 Issues in Violence and Aggression for Health Professionals (3)

Focuses on research and theory of violent/aggressive behavior. Perspectives of victim, offender, family, community, society examined. Focus is recognition of violence against women. Course is designed to challenge students to clarify beliefs, values related to topics such as rape, homicide, domestic violence. Prerequisite: graduate nursing student or permission of instructor.

Instructor Course Description: [Patricia Betrus](#)

NURS 512 Critical and Interdisciplinary Approaches to Women's Health (3)

Critical examination of the historical, socio-political, and scientific influences on women's health. Issues of sexism, racism, and heterosexism discussed from the perspective of different disciplines. Offered: jointly with WOMEN 512.

NURS 521 Computing Fundamentals for Health Providers (3)

Enables health professionals to solve work/practice challenges using existing features of desktop computers. Emphasizes productivity concepts. Introduces extended features of common software packages, as well as basic concepts/methods of small system management and support.

Prerequisite: admission to Health Informatics Certificate Program or by instructor permission.

Offered: jointly with MEDED 580;W.

NURS 523 Communities, Populations, and Systems: Theoretical Foundations (3)

Focus on construction and analysis of research-based philosophies and theories related to nursing practice at the community, population, and systems levels. Synthesize and apply knowledge about social and environmental justice, determinants of health, and human health responses to populations and communities. Examine and evaluate leadership roles for nurses in community settings.

NURS 524 Conceptual Foundations for Care Systems Management (3)

Critical analysis of nature and theoretical bases of care systems management practice. Concepts of nursing and organization science foundations to person-provider transaction management and leadership in context of economic, political, and social environments and health outcomes.

Prerequisite: graduate standing.

NURS 525 Managing Clinical Effectiveness Within Care Systems (3)

Optimizing person-provider clinical therapeutic transactions at multiple levels of care systems complexity and population aggregation. Emphasis on designing, managing and evaluating clinical effectiveness and efficiency within care systems. Prerequisite: NURS 524 or permission of instructor.

NURS 526 Managing Organizational Effectiveness Within Care Systems (3)

Analysis of management strategies for attaining effective and efficient organizational structures and processes within health care systems. Prerequisite: NURS 524 or permission of instructor.

NURS 527 Managing Effective Access and Utilization Within Care Systems (3-4)

In-depth inquiry into health care access and resource utilization patterns among diverse populations, with emphasis on management strategies for establishing effective population-system fit. Additional credit for exploring access and utilization patterns within specific populations.

NURS 546 Interpersonal Aspects of Behavior (3)

Selected theories in relation to psychosocial development and adaptation across life span for individuals, families, and small groups and as explanatory models of major psychosocial

disabilities. General and psychosocial nursing models evaluated for heuristic value for research and practice. Prerequisite: graduate standing or permission of instructor.

NURS 547 Biologic Aspects of Psychosocial Disabilities (3)

Analysis of biological processes influencing psychosocial behavior in response to internal and external stimuli. Research and theory of neuroendocrine mechanisms in psychosocial disabilities. Analysis of nursing management and evaluation of biopsychosocial modalities used in modification of behavior. Prerequisite: graduate standing in nursing or permission of instructor.

NURS 549 Assessment in Psychosocial Nursing (3)

Conceptual and clinical approaches to advanced-level data collection and diagnostic reasoning in psychiatric/psychosocial disorders. Synthesizes knowledge from psychosocial nursing and multiple allied fields to enhance learners' cognizance of principles for establishing accurate and comprehensive data bases and sound multifaceted diagnostic formulations. Emphasizes DSM diagnostic scheme.

NURS 550 White Privilege and Racism in Health and Human Services (3)

Explores relationships among the psychosocial health of people of color, American cultural patterns of intersecting forms of oppression (e.g., gender, race, and class) and the role of health professionals in defining, ameliorating and/or aggravating psychosocial distress. Credit/no credit only. Offered: jointly with WOMEN 550.

NURS 533 Healthcare of Cancer Survivors (2)

Focuses on teaching the health science graduate students about cancer survivorship issues. Discusses the health concerns of those who have been cured of their initial malignancy but are still at risk of long-term effects of chemotherapy, radiation, and surgery. Prerequisite: PHARM 560 (PHARM D students only). Offered: jointly with PHARM 568.

NURS 534 Seminar in Nursing in Gerontology (3)

Gerontological research findings applied to complex nursing problems in maintenance of health and maximum functioning in the aged.

NURS 535 Seminar in Neuroscience Nursing (3)

Guided survey of clinical and experimental literatures regarding selected concepts of human functioning mediated by the nervous system: consciousness, mentation, movement, sensation, integrated regulation, coping with disability. Clinical and research measurement, current research and implications for further research, clinical applications.

NURS 536 Biological Aspects of Cancer: Implications for Care (3)

Survey of major concepts from tumor biology and implications for advanced oncology nursing practice. Areas covered include carcinogenesis, cancer epidemiology, pathology, metastasis, treatments (chemotherapy, radiation, surgery, immunotherapy), and cancer detection and prevention. Discussion of role of advance nurse clinician and complex patient responses are incorporated into discussion of basic biological concepts.

NURS 537 Symptom Management in Cancer Care and Serious Illness (3) *Berry, Nguyen*

Focuses on assessment, integration of research findings into clinical decision-making, diagnostic reasoning, and management of common symptoms experienced by adult patients with cancer and/or serious illness. Explores individual and family responses to serious illness and malignant processes. Emphasizes concepts of prevention, tailored patient/family education, management and evaluation strategies. Offered: Sp.

NURS 539 Seminar in Critical-Care Nursing (3, max. 9)

Systematic inquiry into pathophysiology, initial nursing management, and systems of care for the critically ill adult or child.

NURS 546 Interpersonal Aspects of Behavior (3)

Selected theories in relation to psychosocial development and adaptation across life span for individuals, families, and small groups and as explanatory models of major psychosocial disabilities. General and psychosocial nursing models evaluated for heuristic value for research and practice. Prerequisite: graduate standing or permission of instructor.

NURS 547 Biologic Aspects of Psychosocial Disabilities (3)

Analysis of biological processes influencing psychosocial behavior in response to internal and external stimuli. Research and theory of neuroendocrine mechanisms in psychosocial disabilities. Analysis of nursing management and evaluation of biopsychosocial modalities used in modification of behavior. Prerequisite: graduate standing in nursing or permission of instructor.

NURS 550 White Privilege and Racism in Health and Human Services (3)

Explores relationships among the psychosocial health of people of color, American cultural patterns of intersecting forms of oppression (e.g., gender, race, and class) and the role of health professionals in defining, ameliorating and/or aggravating psychosocial distress. Credit/no credit only. Offered: jointly with WOMEN 550.

NURS 553 The Mentally Ill Offender in Correctional and Community Settings (3)

Survey of social, political, economic, legal, and moral problems posed by individuals with mental disorders who commit crimes. Covers historical antecedents and current responses of correctional and mental health systems to mentally ill offenders, prevalence and correlates of incarceration, and roles of professionals in correctional mental health field. Credit/no credit only. Offered: W.

NURS 554 Psychosocial Interventions in Nursing (3)

Course focuses on conceptual foundations and interpersonal skills for therapeutic interventions to promote personal change and effective adaptation. Emphasizes forming and maintaining a therapeutic alliance and utilizing a client-centered approach to define problems and select appropriate therapeutic interventions. Examines traditional, non-traditional, and multicultural therapeutic perspectives.

NURS 556 Addictions and Substance Abuse: Biopsychosocial Perspectives (3)

Psychosocial and pathophysiological aspects of substance use examined for their effects on individuals and families throughout life span. Theories and empirical findings serve as basis for evaluating preventive and therapeutic nursing approaches to substance use disorders, including those related to target populations. Prerequisite: basic course in biological sciences.

NURS 559 Theories of Psychiatric Disabilities (3)

Theories from psychosocial nursing, psychiatry, and behavioral sciences explanatory of psychiatric disabilities provide basis for identifying psychosocial problems. Structure and functions of mental health organizations and social networks analyzed. Prerequisite: NURS 547 or permission of instructor.

NURS 566 Occupational Stress and Stress Management (3)

Relationships between occupational stressors and worker's health, well-being, productivity. Analyzes models of occupational stress. Investigates similarities, differences between job-related

stressors and stress responses in various occupations. Explores elements of worksite stress management programs. Prerequisite: graduate standing in nursing or allied health discipline; advanced undergraduates with permission of instructor. Offered: jointly with ENVH 565.

NURS 567 Theoretical Basis of Management of Stress Response (3)

Theories of physiologic responses linked to theories of cognitive/affective and behavioral responses to stressors. Conceptual basis of self-management techniques. Research findings relevant to these theories and techniques examined and analyzed. Prerequisite: course in human physiology or physiologic psychology, permission of instructor.

NURS 568 Health Politics and Policy (3)

Analyzes the formal and informal political context of health care delivery, professionals, and institutions in the United States. Addresses medical coverage and public persuasion, as well as policy analysis. Special attention is paid to women's political resources and participation. Credit/no credit only.

NURS 570 Family Concepts: Health and Illness (3)

Emphasizes the family as unit of care across the life span. Predominant themes: factors influencing family health promotion, including resilience, vulnerability, risk reduction, and health policy; continuity, change and transition; and promotion of family health during acute and chronic illness episodes.

NURS 571 Advanced Interpersonal Therapeutics with Families (3)

Models and research on therapeutic relationships and interpersonal processes evaluated and applied to group interactions among family members, among professionals, and between the family, professionals, and macrosystems. Partnership building emphasized. Individual and group characteristics examined across the life span in social, cultural, and health contexts. Prerequisite: permission of instructor.

NURS 574 Family Interpretation and Management of Disordered Behavior across Cultures (3)

Examines interpretation and management of disordered behavior from the perspective of families -- intergenerational and across cultures. Critically reviews selected theoretical frameworks for understanding families. Emphasizes theory, cultural perspective, and family assessment skills to plan relevant family interventions to assist families in managing disordered behaviors of family members.

NURS 575 Grief and Loss in Clinical Practice (2-4, max. 4)

Analysis and study of social, cultural, and psychological conditions that influence human loss, grief, and death in modern society. Research findings, selected readings, and direct experience provide direction for examination of philosophic, theoretical, and pragmatic issues underlying choices and decisions in clinical practice. Open to graduate students with permission of instructor.

NURS 578 Social Determinants of Health (3)

Analyze the distribution and causes of health disparities in populations and communities, including but not limited to social, psychological, biological and environmental factors, to assess social determinants of health problems and their remedies.

NURS 579 Transcultural Nursing Practices (3)

Seminars examine four decades of nursing practice literature and other disciplines related to appropriate and competent care of diverse and multicultural populations. Concepts and methods

from anthropology and other behavior sciences are considered in relationship with current health practice guidelines. Graduate standing or instructor permission.

NURS 580 Current Issues in Occupational and Environmental Medicine (2, max. 12)

Kaufman

Interdisciplinary seminar on current and emerging topics in the practice of environmental and occupational health. Faculty- and student-led presentations with an interdisciplinary focus, including occupational hygiene, nursing, and medical issues. Prerequisite: environmental health graduate student, occupational health nursing student, or permission of instructor. Offered: jointly with ENV H 596; AWSp.

NURS 581 Study of International Health (2-3) *Hegyvary*

International health based on the concept of health ecology. Assigned readings, discussions, and analyses include different perspectives, strategies, systems, and the wide range of conditions and forces that affect global and local health and illness. Emphasizes roles of health care providers. Credit/no credit only.

NURS 582 Socio-Cultural Perspectives of Public Health Genetics (3)

Examines social and cultural issues of human genome sequencing and control of genetic expression. Attitudes and behaviors toward health, illness, and disability are studied using historical, contemporary, and cross-cultural case study material. Offered: jointly with ANTH 574/PHG 521.

Instructor Course Description: [*Barbara B. Mcgrath*](#)

NURS 583 Emotions and Mental Health: From Adversity to Adaptation (3) *Betrus, Elmore*

Provides an understanding of nature and function of emotions as well as relationship of emotion to mental health/illness. Emphasizes adversity arising from individual and community sources and its impact on emotional health. Addresses implications for interpersonal and social policy interventions.

Instructor Course Description: [*Patricia Betrus*](#)

NURS 593 Preventive Therapeutics (3)

Examines literature in the field of health promotion and illness prevention with the purpose of students developing their individual model of health promotion and illness prevention in their own foci of interest considering the social and political forces prevailing.

NURS 594 Advanced Seminar on Healing (3)

Advanced seminar to critically analyze current thinking and practice applications that fall under the heading of "healing."

University Conjoint Courses

UCONJ 515 Promoting Health Behavior for Individuals and Families (2/4, max. 4) *Brandt, Jordan, Kieckhefer, Lewis, Solchany, Spieker*

Practice-focused, evidence-based, theory-driven intervention strategies to promote healing and health behavior at selected points from birth to death. Relevant for clinicians from diverse health settings. Emphasis on clinical skill development including decision-making and outcome management applicable for individuals and families. Prerequisite: permission of instructor. Offered: Sp.

UCONJ 548 Current Issues in First Nations Behavioral Health: Mental Health and Substance Abuse (3)

Historical and intergenerational antecedents of tribal psychiatric and substance abuse disorders. Oppression, economic circumstances, and family functioning as shaping mechanisms for attachment. Implications of insufficient attachment for neuro-development and developmental psychopathology. Traditional vs. mental health and substance abuse assessment and treatment. Self as provider to tribal clients, communities, systems.
Related Fields

P BIO 405 Human Physiology (4-) Wordeman

Intensive coverage of physiology through lectures, conference. Autumn Quarter: excitable tissue, skeletal muscle; spinal reflex; cardiovascular, respiratory physiology; acid base balance; autonomic nervous system; temperature regulation. Winter Quarter: renal, body fluids; neuroendocrinology; reproductive, gastrointestinal, neurophysiology. Required for dental, graduate nursing, and bioengineering students. Also offered for graduate students. Offered: A. Instructor Course Description: [Linda Wordeman](#)

P BIO 406 Human Physiology (-4) Hlastala

Intensive coverage of physiology through lectures, conference. Autumn Quarter: excitable tissue, skeletal muscle; spinal reflex; cardiovascular, respiratory physiology; acid base balance; autonomic nervous system; temperature regulation. Winter Quarter: renal, body fluids; neuroendocrinology; reproductive, gastrointestinal, neurophysiology. Required for dental, graduate nursing, and bioengineering students. Also offered for graduate students. Offered: W. Instructor Course Description: [Donna J Koerker](#)

P BIO 507 Cardiovascular and Respiratory Physiology (3)

Cardiovascular physiology: the heart, microcirculation, hemodynamics, regional circulation, and reflex integration. Respiratory physiology: the lung, pulmonary circulation, alveolar ventilation, gas exchange, control of breathing, acid-base regulation, exercise. Offered: W.

P BIO 509 Neuroendocrinology (3) Steiner

Emphasizes the cellular and molecular aspects of several topics in neuroendocrinology, including neuropeptide genes, reproduction, steroid hormone regulation of gene expression, mechanisms of hormone action, endocrine rhythms, and neural oscillations. Prerequisite: either BIOL 201, BIOL 202, and BIOL 203, or BIOL 180, BIOL 200, and BIOL 220; BIOC 440, BIOC 441, BIOC 442 or permission of instructor. Offered: jointly with NEUBEH 541; W, odd years only. Instructor Course Description: [Robert A Steiner](#)

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.

HSERV 560 Adult Learning: Theory and Practice (3) Downer

Designed to help students apply Popular Education theory and practice to preparation, presentation, and evaluation of health education. Students design, teach, and evaluate four separate teaching sessions (one between each seminar) using theory and principles of Popular

Education learned to date. Prerequisite: graduate standing or permission of instructor.

Instructor Course Description: [Gail I. Greenwood](#)

HSERV 561 Introduction to Health Promotion and Planning (3) Downer

Overview of behavior change theory and comprehensive approach to planning, implementing, and evaluating health promotion interventions. Links theory to practice. Uses PRECEDE/PROCEED planning model by Green and Kreuter as framework. .

Instructor Course Description: [Gail I. Greenwood](#)

HSERV 581 Strategies of Health Promotion (4) Bowen, Drewnoski

Assessment of health promotion planning, implementation, and evaluation strategies for their strengths, weaknesses, and effectiveness. Students critique strategies to modify behavioral factors that influence lifestyles of individuals, including decisions influencing their reciprocal relationship with environmental factors affecting the health of individuals, organizations, and communities. Offered: jointly with NUTR 581. Prerequisite: HSERV 511.

HSERV 582 Theoretical Perspectives on Health Behavior Change ([3-4, max. 4]-) Meischke

Overview of theoretical perspectives in health behavior at the individual, interpersonal, and community level. Focuses on increasing skills in describing, applying, and integrating these frameworks in the design and evaluation of health promotion interventions. Prerequisite: HSERV 511 or permission of instructor.

HSERV 528 Critically Appraising and Applying Evidence in Health Care (3) Pinsky, Wolf

Literature appraisal skills for various articles (therapy effectiveness, diagnostic tests, literature reviews, clinical measurement, prognosis, quality of care, decision analysis, causation/etiology, guidelines, and economic evaluation). Appraisal of clinical information from literature, strengths/weaknesses of data, analyses, study design/applicability to a current patient's problem. Prerequisite: permission of instructor. Offered: jointly with MEDED 540; W.

HSERV 529 Introduction to Systematic Reviews and Meta-analysis of Evidence (2) Wolf

Conceptual understanding of the quantitative methods used to synthesize evidence. Methods for pooling evidence across independent studies, pooling binary/continuous outcomes, differences between fixed and random effects models, and guidelines for appraising published systematic reviews/meta-analyses. Prerequisite: introductory-level courses in statistics, epidemiology, or biostatistics. Offered: jointly with MEDED 541; S

HSERV 512 U.S. Health and Health Care: Organization, Financing, and Delivery (3) Dowling, Wickizer

Students review and examine selected topics from literature. Includes: need and access to care; theory and effects of health insurance; private and public insurance programs; managed care; costs/expenditures; availability and organization of health resources; and quality assessment and improvement. Enrollment priority for Health Services PhD students. Prerequisite: HSERV 511. Offered: A

HSMGMT 523 Informatics in Health Care Management (3) Masuda (NURS 5XX)

Medical informatics concerns the representation, organization, and manipulation of biomedical information and knowledge. Exposes students to a high-level understanding of informatics and its health care applications. Discussion of successes and failures in implementing information technology focuses on gaining leadership and management knowledge that embraces informatics. Offered: W. Instructor Course Description: [David Masuda](#)

EPI 503 Public Health Informatics and Surveillance (3)

Covers collection and use of public health surveillance data in formulating policy and managing programs through lectures and real-world interactive exercises. Discusses surveillance for birth defects, environmental exposures, and hospital-acquired infections, and use of tools such as small area analysis and geographic information systems. Offered: jointly with HSERV 503

EPI 510 Epidemiologic Data Analysis (2) Hawes

Intended for students planning to take 514. Introduces skills and concepts to effectively analyze large data sets for case-control and cohort studies. A beyond-theory approach provides students hands-on experience in using epidemiologic data sets for stratified or multivariate analyses with SAS. Credit/no credit only. Prerequisite: EPI 511 or EPI 512. Offered: W.

EPI 512 Epidemiologic Methods I (4) Koepsell, Weiss

Principles and methods of epidemiology. Covers measures of disease frequency, measures of effect, causal inferences, descriptive epidemiology, study types, misclassification, and effect modification. Designed for students who want to take 513. Prerequisite: prior or concurrent enrollment in BOST 511 or equivalent. Offered: A.

Instructor Course Description: [Thomas D Koepsell](#)

EPI 513 Epidemiologic Methods II (4) Koepsell, Weiss

Continuation of 512. Considers how designs of epidemiologic studies may be constructed to maximize etiologic inferences. Covers confounding, randomized trials, cohort studies, case-control studies, and selected topics. Prerequisite: EPI 512. Offered: W.

EPI 514 Application of Epidemiologic Methods (4) Hawes, Mueller, Schiff

Practical experience in analysis of data. Students analyze data sets currently on file using contemporary epidemiologic methods as taught in 512 and 513. Prerequisite: EPI 510 or experience in statistical programming; EPI 512, EPI 513 and epidemiology major. Offered: Sp.

Instructor Course Description: [Beth A. Mueller](#)

LEADERSHIP

Note: Some courses listed under Leadership could be considered Advanced Practice or Practice Inquiry as well. A course may be used for requirements in only one dimension.

NMETH 527 Introduction to Health Informatics and Systems Thinking (3) Masuda, Oyler

Examines how informatics aids in the transformation of healthcare delivery and how to most effectively use the theories and best practices in informatics toward building and deploying informatics solutions. Offered: A.

NSG 501 Teacher Practice Essentials-Models of Teaching & Learning (3)

Integrative approach to understanding teaching learning that explores how various educational models and principles frame the processes of teaching and learning. Focus toward advanced practice nurses interested in teaching. Prerequisite: permission of instructor and graduate student status. Concurrent Practicum NCLIN 509 (2)

NSG 502 Advanced Teacher Practice Essentials-Expertise in Teaching (3)

Critical analysis of how educational models and principles frame teaching to promote expertise in practice. Aimed toward advanced practice nurses interested in teaching. Builds and expands content of NSG 501. Prerequisite: NSG 501 and graduate student status. Concurrent Practicum NCLIN 509 (2)

NSG 503 Advanced Teacher Practice Essentials-Diverse Learners (3)

Focus on relevance and inclusiveness of addressing diversity of learners within teaching and learning activities. Aimed toward advance practice nurses interested in teaching. Further expands content of NSG 501 and NSG 502. Prerequisite: NURS 501 and graduate student status. Concurrent Practicum NCLIN 509 (2)

NSG 504 Advanced Teacher Practice-Challenges in Teaching (3)

Focus on challenges facing educator during teaching encounters. Addresses influence of belief structures on learner's motivation for change. For advance practice nurses interested in teaching. Prerequisite: NSG 501 and graduate student status. Concurrent Practicum NCLIN 509 (2)

NURS 522 Legal and Ethical Issues in Advanced Practice Nursing (3) Shannon

Reviews selected ethical issues in health care and legal guidelines relevant to health care decision-making. Explores bioethics as a type of applied ethics. Focuses on preparing students for ethical challenges in advanced nursing roles. Offered: jointly with MHE 542; Sp.

NURS 523 Communities, Populations, and Systems: Theoretical Foundations (3)

Focus on construction and analysis of research-based philosophies and theories related to nursing practice at the community, population, and systems levels. Synthesize and apply knowledge about social and environmental justice, determinants of health, and human health responses to populations and communities. Examine and evaluate leadership roles for nurses in community settings.

NURS 524 Conceptual Foundations for Care Systems Management (3)

Critical analysis of nature and theoretical bases of care systems management practice. Concepts of nursing and organization science foundations to person-provider transaction management and leadership in context of economic, political, and social environments and health outcomes. Prerequisite: graduate standing. Offered: A.

NURS 525 Managing Clinical Effectiveness Within Care Systems (3)

Optimizing person-provider clinical therapeutic transactions at multiple levels of care systems complexity and population aggregation. Emphasis on designing, managing and evaluating clinical effectiveness and efficiency within care systems. Prerequisite: NURS 524 or permission of instructor. Offered: W.

NURS 526 Managing Organizational Effectiveness Within Care Systems (3)

Analysis of management strategies for attaining effective and efficient organizational structures and processes within health care systems. Prerequisite: NURS 524 or permission of instructor. Offered: Sp.

NURS 527 Managing Effective Access and Utilization Within Care Systems (3-4)

In-depth inquiry into health care access and resource utilization patterns among diverse populations, with emphasis on management strategies for establishing effective population-system fit. Additional credit for exploring access and utilization patterns within specific populations. Offered: S.

NURS 534 Seminar in Nursing in Gerontology (3)

Gerontological research findings applied to complex nursing problems in maintenance of health and maximum functioning in the aged.

NURS 548 Introduction to Infant Mental Health (3)

Reviews the basics of infant mental health (IMH) and development from a development interdisciplinary perspective. Special attention on brain development, sensory integration, early communication, emotion regulation. Emphasizes history of infant mental health field, incorporating IMH into policies, systems, and various treatment approaches.

NURS 560 Dynamics of Community Health Practice (3/5)

Examination of and experience with principles of clinical practice in community settings. Included are family as community constituent, populations at risk, community assessment, and community development. Prerequisite: graduate standing or permission. Offered: jointly with HSERV 508.

NURS 568 Health Politics and Policy (3)

Analyzes the formal and informal political context of health care delivery, professionals, and institutions in the United States. Addresses medical coverage and public persuasion, as well as policy analysis. Special attention is paid to women's political resources and participation. Credit/no credit only.

NURS 579 Transcultural Nursing Practices (3)

Seminars examine four decades of nursing practice literature and other disciplines related to appropriate and competent care of diverse and multicultural populations. Concepts and methods from anthropology and other behavior sciences are considered in relationship with current health practice guidelines. Graduate standing or instructor permission.

NURS 581 Study of International Health (2-3) *Hegyvary*

International health based on the concept of health ecology. Assigned readings, discussions, and analyses include different perspectives, strategies, systems, and the wide range of conditions and forces that affect global and local health and illness. Emphasizes roles of health care providers. Credit/no credit only.

NURS 584 Critical and Interdisciplinary Approach to Health Policy (3)

Advanced seminar to critically analyze various public health policies from a social justice framework.

NURS 592 The Science of Nursing Therapeutics (4)

Addresses the state of the science of nursing therapeutics. Students examine the practices of nursing to promote, maintain, and restore human health from an ecological perspective. Therapeutics considered from the perspectives of the individual, family, and community systems.

EPI 544 Maternal and Child Health in Developing Countries (3) *Mercer*

Emphasizes critical health problems of women and children in developing countries in social, economic, and cultural contexts. Practical approaches to developing MCH programs shared via lecture/discussions, exercises, and small group work. Students acquire skills in baseline assessment, setting objectives, planning and evaluating interventions, and involving communities. Offered: jointly with HSERV 544; Sp.

G H 511 Problems in International Health (4)

Explores social, political, economic, environmental determinants of developing countries' health; traces development of societal responses to problems. Includes: origins of primary health care; child survival; traditional systems; population; water; sanitation; international agencies; impact of economic policies. Case study formulating pharmaceutical policy in a developing country.

ENV H 517 Children's Environmental Health (3) *Burbacher*

Discussion of environmental health issues as they pertain to children's health. Includes historical perspective of public health research and policies directed at protecting children's health and emerging scientific and public health issues such as childhood exposure to mercury and pesticides, childhood asthma, cancer, and environmental justice. Offered: Sp.

Instructor Course Description: [Thomas M Burbacher](#)

HSERV 511 Introduction to Health Services and Public Health (3-4) *Thompson*

History, organization, and effectiveness of United States health care and public health systems. Determinants of health, need, and utilization. Public and private financing. Supply and provision of personal and public health services. Managed care. Government and private sector roles.

Prerequisite: graduate standing or permission of instructor.

HSERV 512 U.S. Health and Health Care: Organization, Financing, and Delivery (3) *Dowling, Wickizer*

Students review and examine selected topics from literature. Includes: need and access to care; theory and effects of health insurance; private and public insurance programs; managed care; costs/expenditures; availability and organization of health resources; and quality assessment and improvement. Enrollment priority for Health Services PhD students. Prerequisite: HSERV 511.

Offered: A.

HSERV 513 U.S. Health and Health Care: Population Health, Social Determinants, and Health Disparities (3) *Patrick*

Explores the elements and actions of a population health approach, including conceptualizing the determinants of health, synthesizing knowledge about major social determinants, and applying knowledge to improve population health and reduce health disparities. Enrollment priority for Health Services PhD students. Prerequisite: HSERV 511, and permission of instructor;

recommended: HSERV 512. Offered: W

HSERV 518 Social and Ethical Issues (2-4, max. 4) *Mastroianni*

Presents introduction to ethical issues in public health policy and practice. Additional one credit option focuses on health administration/managed care. Coursework designed to train students in basic skills of ethical analysis and increase competency in recognizing, researching, and analyzing issues arising in public health and health services delivery.

HSERV 531 Problems in International Health (4) *Gloyd*

Explores social, political, economic, environmental determinants of developing countries' health; traces development of societal responses to problems. Includes: origins of primary health care; child survival; traditional systems; population; water; sanitation; international agencies; impact of economic policies. Case study formulating pharmaceutical policy in a developing country. Offered: jointly with EPI 531; A.

Instructor Course Description: [Stephen S. Gloyd](#)

HSERV 533 Population, Health, and Development (2) *Povey*

Provides students with an introduction to demographic conditions in Third World countries and an understanding of the consequences of rapid population growth on health and the environment. The context and effectiveness of family planning programs is a major focus.

HSERV 534 Global Population Health and Development (3) *Bezruchka*

Looks at determinants of population health in different countries, to learn about the constraints of typical public health and development paradigms. Topics include colonialism, development and

underdevelopment, political economy, culture, health behaviors, hierarchy, health care and medical harm. Prerequisite: experience working in a health program.

Instructor Course Description: [Stephen A. Bezruchka](#)

HSERV 541 Topics in Maternal and Child Health I (3-, max. 3) Bell

Historic, legislative, organizational, and financial basis of health and social services for families and children in United States. Effects of changing family structure and norms; factors affecting health care needs of specific populations, including racially and ethnically diverse groups; impact of policies/programs on health and well-being of families and children.

Instructor Course Description: [Gail I. Greenwood](#)

HSERV 543 Topics in Maternal and Child Health III (3) Huebner

Provides an overview of contextually based frameworks for understanding growth and development. Identifies and describes the conceptual basis and theory of change that underlie successful preventive intervention efforts to promote the well being of children and reduce common MCH problems.

HSERV 544 Maternal and Child Health in Developing Countries (3) Mercer

Emphasizes critical health problems of women and children in developing countries in social, economic, and cultural contexts. Practical approaches to developing MCH programs shared via lecture/discussions, exercises, and small group work. Students acquire skills in baseline assessment, setting objectives, planning and evaluating interventions, and involving communities. Offered: jointly with EPI 544; Sp.

Instructor Course Description: [Mary Anne Mercer](#)

HSERV 550 Policy and Economics: Fundamentals and Applications (3) Katz, Watts

Explores how values drive the structure of societies, economic systems, public policies, and ultimately, allocation and distribution of resources. Explores how science and community values intertwine in the development of health policy, and how ideology, culture, and history influence structure and change a nation's health system. Offered: W.

HSERV 551 Health Law (2)

Analysis of law, the legal system and current legal problems as they relate to the financing and delivery of health care services. Offered: jointly with LAW H 512; Sp.

HSERV 552 Health Policy Development (3-, max. 3) Katz, Watts

Focuses on development of public policy concerning medical care and public health and the relationship between public decisions and the market place. Using contemporary policy issues as case studies, examines the role science, ideology, culture, and history play in influencing the structure of and changes to a nation's health system.

Instructor Course Description: [Gail I. Greenwood](#)

HSERV 553 Politics of Health Care (3) Hagens

Understanding of health policy making within the context of American politics. Health policy making is examined in light of political leadership, the legislature, the initiative process, rule making, interest groups, and lobbying. Prerequisite: HSERV 551, a basic understanding of the American health care system, or permission of instructor.

HSERV 554 Health Legislation Seminar (1) Beyer, Seib

Discussion of current state of health policy, topics with legislative staff and others involved with state health policy. In addition to four sessions on campus, course meets once in Olympia during

legislative session. Credit/no credit only.

Instructor Course Description: [Patricia Lichiello](#)

HSERV 571 Cultural Competency for Public Health Practice (1-4, max. 4) Thornton

Application of cultural competency to clinical practice, health care management, and health services research when working with culturally diverse populations. Methodological orientation is qualitative, historical, and ethnographic. Lecture, narratives, discussions, guest presentations, film, video. Interdisciplinary perspective appropriate for graduate students in public health, health administration, nursing, social work, and anthropology. Offered: Sp.

HSERV 572 Community Development for Health (4) Hagopian, House

Learn the literature, theory, history, and accepted knowledge in the fields of community development, activism, and community organizing within a health systems context. Provides a forum for exploring approaches to community development and organizing. Gain specific skills and master techniques. Offered: W.

Instructor Course Description: [Gail I. Greenwood](#) [Amy Hagopian](#)

HSERV 573 Community Development for Health Seminar (1)

Explores the importance of community as a determinant of health, and how public health workers can help strengthen communities. Companion course to HSERV 572. Meets Friday afternoons to hear community organizers and leaders in community development.

Instructor Course Description: [Amy Hagopian](#)

HSERV 576 Health, Culture, and Community (3)

A theory and skills class concerning development of personal and organizational cultural competence in community-based participatory research. Core concepts of cultural competence are considered as they are practiced in community settings. Fieldwork required. Offered: jointly with NURS 557.

HSERV 583 Economic Evaluation in Health and Medicine (3) Sullivan, Veenstra

Methods and techniques for evaluating costs and cost-effectiveness of health, medical, and pharmaceutical interventions. Emphasis on economic evaluation, decision analysis, and modeling techniques for resource allocation and decision making. Applications to technology assessment, health policy, clinical practice, and resource allocation. Prerequisite: permission of instructor. Offered: jointly with PHARM 534; A.

HSERV 584 Evaluating Cost and Outcomes in Health and Medicine 2 (3) Patrick, Sullivan, Veenstra

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. Prerequisite: permission of instructor. Offered: jointly with PHARM 535.

Instructor Course Description: [Emily E. Devine](#)

HSERV 587 Health Policy Economics (3) Watts

Applies economic theory to selected topics in health care, including information, risk and insurance, industry organization, government regulation, and public health issues. Emphasizes policy implications of these applications.

HSMGMT 513 Seminar in Healthcare Finance (4) Conrad

Focuses on case studies and modern theory in managerial finance relevant to health services.

Students prepare group presentations and individual case study analyses of health services finance problems. Builds on accounting and finance principles ACCTG 503 and HSMGMT 574, or the equivalent, are recommended prerequisites, but not required. Offered: Sp.
Instructor Course Description: [Douglas A Conrad](#)

HSMGMT 514 Health Economics (3/4) Wickizer

Uses economic concepts and tools to examine range of issues pertaining to health care, delivery of health care services. Includes demand analysis, production of health services, expenditure growth, markets for hospital and physician services, externalities. Emphasis on using economics to examine issues and solve problems. Prior economics courses not required. Offered: W.

HSMGMT 523 Informatics in Health Care Management (3) Masuda

Medical informatics concerns the representation, organization, and manipulation of biomedical information and knowledge. Exposes students to a high-level understanding of informatics and its health care applications. Discussion of successes and failures in implementing information technology focuses on gaining leadership and management knowledge that embraces informatics. Offered: W. Instructor Course Description: [David Masuda](#)

HSMGMT 560 Management Practice in Health Care and Public Health Organizations (1-3, max. 3) Richardson, Sappington

Introduction to leadership and management, focusing on effective strategies for creating a productive work environment. Organizational structure and strategy introduced. Case studies and other problem-solving methods, using health services applications are utilized in order to apply theoretical material. Prerequisite: graduate student. Offered: Sp.
Instructor Course Description: [Ray Michael Nicola](#) [Gail I. Greenwood](#)

HSMGMT 562 Strategic Management of Health Care Organizations (3-4, max. 4) Dowling

Management of goals, strategy, and structure in health care organizations. Design of external relationships and internal structures., strategy-formulation, decision-making, and change. Integration of professional, social, and organizational values. Theory, student and practitioner experience, and case studies used to enhance repertoire of management approaches and skills. Prerequisite: HSERV 511 and HSMGMT 560 or equivalent.

HSMGMT 574 Financial Management I (3-4) Stillman

Prepares clinical professionals for participating intelligently in, and contributing to, financial decisions of health care organizations. Learn the language and fundamental concepts of accounting and finance, and become comfortable with what is required in formal financial analysis. Offered: A.

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

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.
Instructor Course Description: [Helen D. Adams](#)

B A 471 Marketing Analysis and Strategy for Non-business Majors (3) I&S

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) I&S

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.

COM 578 Intercultural Communications (5) *Manusov, Rivenburgh*

Focuses on the nature of communication between different cultures, including the processes as they occur on sojourns, immigration, negotiations, and conversations across national boundaries. Specific topics include identity formation and expression, intercultural relationships, stereotyping, prejudice, and group affiliation.

LAW 489 Law and Aging (3) I&S

Survey of principal areas of law of special concern to aging population, considering health care and health care decision-making, public and private income maintenance programs, taxation, guardianships, conservatorships and other methods of protecting the property of the elderly, counseling, and professional responsibility.

LAW H 508 Beginning of Life: Rights and Choices (2)

Addresses the controversial legal issues engendered by our increasing control over the beginning of life. Focuses on the law, regulation, and policy implications of contraception; new reproductive and genetic technologies, including surrogate parenthood, sperm and egg donation, in-vitro fertilization, and other methods of conquering infertility; and abortion.

Instructor Course Description: [Anna C. Mastroianni](#)

PBSCI 548 P-Aging and Adult Development (1-3, max. 3)

Aging in Western technologically advanced societies frequently involves losses in status, stamina, and economic and social supports. Consideration given to losses among the aged. Students select projects in the area of aging and work at their own levels of expertise and sophistication. Seminar format with guided reading.

SOC W 501 Poverty and Inequality (3)

Analysis of poverty and inequality in United States. Analytic and descriptive focus on measurement, processes of production and perpetuation, and public policy responses. Examines causes of poverty, the role of policy, and socioeconomic dimensions of stratification, including race, ethnicity, class, gender, immigration status, disability, age, sexual orientation, and family structure.

SOC W 521 Child and Family Inequalities: Policy/Services Platform (3)

Advanced study of policy and services relevant to practice with children, adolescents, and families. Applies social justice framework to understanding policy context and organization of services responses to child and family inequalities, especially for historically oppressed and marginalized populations. Examines social construction of policies in historical, political, and comparative context.

SOC W 526 Multigenerational Policy-Services Platform: A Feminist, Multicultural Lens (3)

Builds social workers' competencies to analyze, critique, and advocate for policies and processes

that will support growing numbers of multigenerational families. Presents a feminist, multicultural and multigenerational perspective to analyze how historical and current service structures, policies, and regulations support or undermine families across the lifespan.

SOC W 533 Multigenerational Advanced Practice with Older Adults (3)

Emphasizes a multigenerational, culturally competent empowerment approach and in-depth knowledge on "best practices" related to assessment, diagnosis, and clinical interventions with older adults and their families. Builds on other multigenerational classes.

SOC W 541 Social Work Practice: Inpatient, Hospice, and Long-Term Care (3)

Health care theory and practice skills relevant to adults and children in secondary and tertiary care settings, using multicultural, family systems, contextual, and lifespan perspectives. Skills include biopsychosocial and mental status assessments, ethical decision making, discharge planning, crisis intervention, cross-cultural practice, and counseling regarding life-threatening illness.

SOC W 574 Collaborative Community-Based Program Evaluation (3)

Focuses on carrying out a formative and process evaluation of a community program in conjunction with program staff and clients. In addition to learning about program theory, measurement construction, study design, and data analysis, students develop consultative and presentation skills needed in utilization-focused evaluation.

SOC W 583 Multicultural and Multigenerational Approaches to Healing Grief and Loss (3)

Uses critical analysis to expand Western symptom-oriented grief and loss theory to include multicultural approaches, exploring new constructionist models of meaning-making, narrative biography, and cultural tradition through case studies. Assessment and intervention exercises include journaling, art, and ritual, allowing students to explore how their own grief affects practice.

SOC W 591 Social Work Practice in Long-Term Care Across the Lifespan (3)

Applies a multigenerational framework to introduce values, skills, and knowledge necessary for social work practice in long-term care settings across all age groups. Meets at a nearby continuing care community and provides regular opportunities to interact with persons requiring long-term care, their families, and formal caregivers.

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.

PRACTICE INQUIRY

Note: Some courses listed under Practice Inquiry could be considered Leadership or Advanced Practice. A course may be used for requirements in only one dimension.

SCHOOL OF NURSING COURSES

NURSING METHODS (NMETH)

NMETH 5xx/NURS 540 Database Concepts & Applications in Clinical Informatics (3-6, max. 9)

Guided survey of the experimental literature of major topics in physiological nursing, including cardiopulmonary, biology of aging, neuromuscular, cancer, and endocrine. Course conducted as a seminar with analysis and discussion of selected topics and readings. Implications for future research and health care are emphasized. Offered: Sp.

NMETH 5xx/HSMGMT 523/MEBI 598c Healthcare Information Systems and the EHR (3)

Medical informatics concerns the representation, organization, and manipulation of biomedical information and knowledge. Exposes students to a high-level understanding of informatics and its health care applications. Discussion of successes and failures in implementing information technology focuses on gaining leadership and management knowledge that embraces informatics. Offered: W.

NMETH 523/MEBI 598a Systems Design and Project Management (3)

Provides an overview of project management principles. Focus on principles that are applied in health informatics. Opportunity to define, plan, implement, and evaluate a real project. Emphasis on teamwork and total systems approach to planning and implementation. Offered: Sp.

NMETH 524 Analysis and Design of Information Systems in Health Care (3)

Introduction to systems analysis and design. Topics include analyzing the business case, requirements modeling, enterprise modeling, and development strategies. Also covers data design, the user interface, input and output design, system architecture, systems implementation and systems operations and support.

NMETH 526 Patient-Centered Interactive Health Communication Technologies (3)

Overview of current and emerging consumer-centric eHealth tools and technologies. Researchers and practitioners from multiple disciplines present theories, concepts, and principles from health, information, cognition, and human-factors sciences as they relate to the development and use of these tools and technologies. Offered: Sp.

NMETH 528/MEBI 580 Foundations in Information Technology (3)

Enables health professionals to solve work/practice challenges using existing features of desktop computers. Emphasizes productivity concepts. Introduces extended features of common software packages, as well as basic concepts/methods of small system management and support. Prerequisite: admission to Health Informatics Certificate Program or by instructor permission. Offered: W.

NMETH 530 Scholarly Proposal Development (2)

Focuses on the application of methods of inquiry to develop a scholarly proposal through faculty-guided small group discussion and individual composition. Prerequisite: NMETH 520. Offered: AWSpS.

NMETH 532 Developing an Evidence Base for Complementary and Alternative Medicine Practices (2/3)

Focuses on skill enhancement for evaluation CAM-related evidence and the implications for translating evidence to practice. Examines the challenges of CAM studies and describes strategies for improvement. Examines factors such as environment, culture, provider-patient relationship, and personal characteristics influencing research. Prerequisite: NMETH 520 or equivalent. Offered: Su.

NMETH 570 Seminar in Clinical Research in Nursing (3)

Philosophy, problems of design; use of criterion measures in terms of patient care.

NMETH 585 Meta-Analysis (4)

Meta-analysis examined as a method to synthesize research. Overview of meta-analytic methods; description of the collection, analysis, synthesis, and reporting of studies; explanation of statistical calculations; and discussion of reliability and validity measures incorporated into meta-analytic design. Prerequisite: permission of instructor.

NMETH 593 Preventative Therapeutics (4)

Basic introduction to terminology and methods of time series and sequential analysis as applicable to nursing-relevant processes in the form of samples of interval and categorical data collected over time; autocorrelation, autoregression, spectrum, socinor, Markovian, lag sequential, and log-linear analyses. Development of practical analysis skills on real data sets. Prerequisite: permission of instructor. Credit/no credit only.

NURSING (NURS)

NURS 524 Conceptual Foundations for Care Systems Management (3)

Critical analysis of nature and theoretical bases of care systems management practice. Concepts of nursing and organization science foundations to person-provider transaction management and leadership in context of economic, political, and social environments and health outcomes. Prerequisite: graduate standing. Offered: A.

NURS 525 Managing Clinical Effectiveness Within Care Systems (3)

Optimizing person-provider clinical therapeutic transactions at multiple levels of care systems complexity and population aggregation. Emphasis on designing, managing and evaluating clinical effectiveness and efficiency within care systems. Prerequisite: NURS 524 or permission of instructor. Offered: W.

NURS 526 Managing Organizational Effectiveness Within Care Systems (3)

Analysis of management strategies for attaining effective and efficient organizational structures and processes within health care systems. Prerequisite: NURS 524 or permission of instructor. Offered: Sp.

NURS 527 Managing Effective Access and Utilization Within Care Systems (3-4)

In-depth inquiry into health care access and resource utilization patterns among diverse populations, with emphasis on management strategies for establishing effective population-system fit. Additional credit for exploring access and utilization patterns within specific populations. Offered: S.

NURS 576 Assessment and Collaboration with Communities and Systems (3)

Examine, critique and apply theory and practice in assessing and collaborating with communities, populations and systems cross-culturally. Develop techniques for working with communities and systems, including using multiple data sources, performance indicators, community mobilization, capacity building, and coalition development. Graduate level.

NURS 592 The Science of Nursing Therapeutics (4)

Addresses the state of the science of nursing therapeutics. Students examine the practices of nursing to promote, maintain, and restore human health from an ecological perspective. Therapeutics considered from the perspectives of the individual, family, and community systems.

SCHOOL OF PUBLIC HEALTH COURSES

CLINICAL EPIDEMIOLOGY

EPI 510 Epidemiologic Data Analysis (2) Hawes

Intended for students planning to take 514. Introduces skills and concepts to effectively analyze large data sets for case-control and cohort studies. A beyond-theory approach provides students hands-on experience in using epidemiologic data sets for stratified or multivariate analyses with SAS. Credit/no credit only. Prerequisite: EPI 511 or EPI 512. Offered: W.

EPI 511 Introduction to Epidemiology (3-4, max. 4) Kukull

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.

EPI 512 Epidemiologic Methods I (4) Koepsell, Weiss

Principles and methods of epidemiology. Covers measures of disease frequency, measures of effect, causal inferences, descriptive epidemiology, study types, misclassification, and effect modification. Designed for students who want to take 513. Prerequisite: prior or concurrent enrollment in BOST 511 or equivalent. Offered: A.

Instructor Course Description: [Thomas D Koepsell](#)

EPI 513 Epidemiologic Methods II (4) Koepsell, Weiss

Continuation of 512. Considers how designs of epidemiologic studies may be constructed to maximize etiologic inferences. Covers confounding, randomized trials, cohort studies, case-control studies, and selected topics. Prerequisite: EPI 512. Offered: W.

EPI 514 Application of Epidemiologic Methods (4) Hawes, Mueller, Schiff

Practical experience in analysis of data. Students analyze data sets currently on file using contemporary epidemiologic methods as taught in 512 and 513. Prerequisite: EPI 510 or experience in statistical programming; EPI 512, EPI 513 and epidemiology major. Offered: Sp.

Instructor Course Description: [Beth A. Mueller](#)

(Note: Other EPI focuses on specific topics.)

HSMGMT 501 Epidemiology/Critical Evidence Appraisal (3-4) Kopjar

Basic knowledge about methods used in epidemiology and their application to critical appraisal of clinical, epidemiological, and health administration literature for evidence-based management of healthcare organizations, improvement of delivery of health services, and for creating health policies. Offered: W

QUALITY OF CARE IMPROVEMENT RESEARCH/ PROGRAM EVALUATION

HSERV 522 Health Program Evaluation ([1-4]-, max. 4) Grembowski

Politics, theory, methods of evaluation, from simple health programs to evaluation of large-scale interventions. Emphasizes experimental and quasi-experimental designs to estimate program impacts, as well as evaluation of program implementation. Case studies drawn from health field illustrate various types of evaluations. Prerequisite: background in introductory statistics.

Instructor Course Description: [Gail I. Greenwood](#) [David Grembowski](#)

HSERV 523 Advanced Health Services Research Methods I (4) *Diehr, Maciejewski*

Examines how to apply research methods and addresses recurring issues in health services research. Covers statistical theory that motivates the methods and empirical work that demonstrates a method's use. Enrollment priority for Health Services PhD. students. Prerequisite: either HSERV 511, BIOST 511/512/513, BIOST 517/518, or EPI 511/512, and permission of instructor. Offered: A.

HSERV 524 Advanced Health Services Research Methods II (4) *Zimmerman*

Emphasizes the application of advanced biostatistical/econometric techniques in applied research. Examines a wide variety of posed research questions and demonstrates how to best obtain answers. Enrollment priority for Health Services PhD students. Prerequisite: either HSERV 511, BIOST 511/512/513, BIOST 517/518, or EPI 511/512, and permission of instructor. Offered: W.

HSERV 525 Advanced Health Services Research Methods III (4) *Sales*

Introduction to methods of handling data and conducting basic analyses in the broad and heterogeneous field of health services research. Examine concepts and conduct hands-on research using large, public use data. Enrollment priority for Health Services PhD students. Prerequisite: either HSERV 511, BIOST 511/512/513, BIOST 517/518, or EPI 511/512, and permission of instructor. Offered: Sp.

Instructor Course Description: [Anne Sales](#)

HSERV 528 Critically Appraising and Applying Evidence in Health Care (3) *Pinsky, Wolf*

Literature appraisal skills for various articles (therapy effectiveness, diagnostic tests, literature reviews, clinical measurement, prognosis, quality of care, decision analysis, causation/etiology, guidelines, and economic evaluation). Appraisal of clinical information from literature, strengths/weaknesses of data, analyses, study design/applicability to a current patient's problem. Prerequisite: permission of instructor. Offered: jointly with MEDED 540; W.

HSERV 529 Introduction to Systematic Reviews and Meta-analysis of Evidence (2) *Wolf*

Conceptual understanding of the quantitative methods used to synthesize evidence. Methods for pooling evidence across independent studies, pooling binary/continuous outcomes, differences between fixed and random effects models, and guidelines for appraising published systematic reviews/meta-analyses. Prerequisite: introductory-level courses in statistics, epidemiology, or biostatistics. Offered: jointly with MEDED 541; S

INFORMATICS/ CLINICAL INFORMATION SYSTEMS**EPI 503 Public Health Informatics and Surveillance (3)**

Covers collection and use of public health surveillance data in formulating policy and managing programs through lectures and real-world interactive exercises. Discusses surveillance for birth defects, environmental exposures, and hospital-acquired infections, and use of tools such as small area analysis and geographic information systems. Offered: jointly with HSERV 503

HSMGMT 523 Informatics in Health Care Management (3) *Masuda (NURS 5XX)*

Medical informatics concerns the representation, organization, and manipulation of biomedical information and knowledge. Exposes students to a high-level understanding of informatics and its health care applications. Discussion of successes and failures in implementing information technology focuses on gaining leadership and management knowledge that embraces informatics. Offered: W. Instructor Course Description: [David Masuda](#)

HEALTH SERVICE AND SYSTEM RESEARCH

HSERV 511 Introduction to Health Services and Public Health (3-4) Thompson

History, organization, and effectiveness of United States health care and public health systems. Determinants of health, need, and utilization. Public and private financing. Supply and provision of personal and public health services. Managed care. Government and private sector roles. Prerequisite: graduate standing or permission of instructor.

HSERV 512 U.S. Health and Health Care: Organization, Financing, and Delivery (3) Dowling, Wickizer

Students review and examine selected topics from literature. Includes: need and access to care; theory and effects of health insurance; private and public insurance programs; managed care; costs/expenditures; availability and organization of health resources; and quality assessment and improvement. Enrollment priority for Health Services PhD students. Prerequisite: HSERV 511. Offered: A

HSERV 526 Qualitative Research Methods for Public Health (4) Bezruchka

Covers a range of qualitative, ethnographic tools for practical applications in public health. Methods covered include direct observation, informant interviews, focus groups, and formal methods. Covers Rapid Assessment Procedures and Participatory Action Research. Student teams investigate research questions using these techniques. Offered: Sp. Instructor Course Description: [Stephen A. Bezruchka](#)

(Note: Additional Health Services courses are offered on specific design and methods, and topics.)

STATISTICS**BIOST 502 Introduction to Statistics in Health Sciences (4)**

Description and examples of common concepts in biostatistics. Probability, point and confidence interval estimation, hypothesis testing including two-sample and paired t and chi-square tests, introduction to simple linear regression. Examples in health sciences stressed. Offered: S.

BIOST 503 Application of Statistics to Health Sciences (4)

Standard statistical techniques presented with examples drawn from the health sciences literature. Critical interpretation of research results, and introduction to the computer for data processing and statistical analysis. Prerequisite: BIOST 502 or equivalent. Offered: S.

BIOST 509 Special Emphases in Biostatistics (3-5, max. 5)

Introduction to concepts and methods of descriptive and inferential statistics, with applications in specific disciplines emphasized. Topics include comparison of means and proportions, hypothesis testing, confidence intervals, nonparametric methods, linear regression and correlation. Different sections target specific student populations.

BIOST 511 Medical Biometry I (4)

Presentation of the principles and methods of data description and elementary parametric and nonparametric statistical analysis. Examples are drawn from the biomedical literature, and real data sets are analyzed by the students after a brief introduction to the use of standard statistical computer packages. Statistical techniques covered include description of samples, comparison of two sample means and proportions, simple linear regression and correlation. Offered: AS. Instructor Course Description: [Elizabeth A. Sheppard](#)

BIOST 512 Medical Biometry II (4)

Multiple regression, analysis of covariance, and an introduction to one-way and two-way analyses of variance: including assumptions, transformations, outlier detection, dummy variables, and variable selection procedures. Examples drawn from the biomedical literature with computer assignments using standard statistical computer packages. Prerequisite: either BIOST 511 or BIOST 517, or equivalent. Offered: W.

BIOST 513 Medical Biometry III (4)

Analysis of categorical data including two sample methods, sets of 2 x 2 tables, R x C tables, and logistic regression. Classification and discrimination techniques. Survival analysis including product limit estimates and the Cox proportional hazards model. Prerequisite: BIOST 512 or permission of instructor. Offered: Sp.

BIOST 514 Biostatistics I (4)

Mathematically sophisticated presentation of principles and methods of data description; graphics; point, confidence interval estimation; hypothesis testing; relative risk; odds ratio; Mantel-Haenszel; chi-square test (matrix algebra required). Examples drawn from biomedical literature; real-data sets analyzed using statistical computer packages. Prerequisite: biostatistics majors or permission of instructor. Offered: A.

BIOST 515 Biostatistics II (4)

Mathematically sophisticated introduction to linear models; multiple regression, correlation; residual analysis; dummy variables; analysis of covariance; one-, two-way analysis of variance; randomized blocks; fixed, random effects (repeated measure, factorial designs); multiple comparisons (matrix algebra required). Real biomedical data sets analyzed. Prerequisite: BIOST 514, biostatistics major, or permission of instructor. Offered: W.

BIOST 517 Applied Biostatistics I (4)

Introduction to the analysis of biomedical data. Descriptive and inferential statistical analysis for discrete, continuous, and right censored random variables. Analytic methods based on elementary parametric and non-parametric models for one sample; two sample (independent and paired), stratified sample, and simple regression problems. Offered: A.

BIOST 518 Applied Biostatistics II (4)

Multiple regression for continuous, discrete, and right censored response variables, including dummy variables, transformations, and interactions. Introduction to regression with correlated outcome data. Model and case diagnostics. Computer assignments using real data and standard statistical computer packages. Prerequisite: BIOST 517 or permission of instructor. Offered: W.

COLLEGE OF EDUCATION COURSES**EDUCATIONAL PSYCHOLOGY MEASUREMENT, STATISTICS, & RESEARCH DESIGN****EDPSY 490: Basic Educational Statistics**

This course provides an understanding of the applications of basic statistical methods, the assumptions these methods make about the data, and what the effects of violations of those assumptions would be on conclusions the researcher makes from data. In summary, this is a course in "How NOT to lie or be misled by basic statistics." Multiple problem sets are used to provide students with the opportunity to analyze data using the methods discussed in the course. Most students learn to use statistical software to do these analyses. *This course is a foundation-*

level course for masters and doctoral students who have not had the opportunity to take a basic statistics course. The emphasis in the course is more on the appropriate application of statistics and less on the underlying mathematics.

EDPSY 575: Structural Equation Modeling

This course presents approaches to the analysis of complex survey data that allow the comparative contrasting of competing theories. Typically, these data include multiple measures of the same theoretical construct and the specification of theoretically based relationships among constructs. Students will use statistical software (either LISREL, EQS, or AMOS) to do problems illustrating confirmatory factor analysis and latent variable structural equation modeling. *This course is a third-tier course in statistics and serves doctoral students who are testing theories through the use of complex survey data. This course builds and expands on the approaches discussed in EDPSY 594.*

EDPSY 576: Hierarchical Linear Models

This course presents statistical approaches to the analysis of data found in many research areas of education: data from children nested within classrooms or repeated measures on children, or data from meta analyses of other studies. The focus is on the assumptions of these statistical methods and the appropriate application of these methods. Students will use statistical software (HLM) to do projects illustrating the statistical methods discussed in this course. *This course is a third-tier course in statistics and serves doctoral students who are testing theories through the use of complex survey data. This course builds and expands on the approaches discussed in EDPSY 593 and 594.*

EDPSY 593: Experimental Design and Analysis

This course presents and critiques approaches to the analysis of data that come from designed experiments. These approaches are often called the Analysis of Variance. This course discusses many of the experimental designs for which the analysis of variance is appropriate. Special focus is placed on the assumptions of the statistical methods. Students complete a number of data analyses to illustrate the use of the statistical methods discussed in this course. *This course is a second-tier course in statistics and serves doctoral students and advanced masters students who are addressing research questions that involve data collected during designed experiments.*

EDPSY 594: Advanced Correlational Techniques

This course presents and critiques approaches to the analysis of data that come from surveys where the data do not necessarily come from a designed experiment. Examples of these approaches include multiple regression, factor analysis, and multivariate analysis. Students will use statistical software to analyze either their own or instructor-provided data. *This course is a second-tier course in statistics and serves doctoral students and advanced masters students who are addressing research questions through the use of data derived from surveys*