

GRADUATE COURSES

The following courses are offered in cooperation with the Jefferson School of Graduate Studies:

IDSC 501

Pharmacology in Rehabilitation (3)

Provides an overview of major classes of drugs with an emphasis on their mechanisms of action, rationale underlying therapeutic uses, adverse reactions and drug interactions. Includes written assignments in students' areas of interest.

IDSC 502

Mindfulness Based Stress Reduction for Personal and Professional Wellness (3-4)

Examines stress physiology, the influence of stress on disease processes, and the substantial evidence-based research that documents the health benefits of MBSR and other mindfulness-based interventions. Includes practice of formal mindfulness meditation techniques in weekly sessions and an optional one-day mindfulness retreat. Promotes personal and professional wellness and creates a foundation for further exploration of mindfulness-based interventions for those interested in integrating mindfulness into their professional practice.

IDSC 512

Current Topics in Healthcare Law (3)

Introduces working concepts of the American legal process and techniques of their implementation. Broadly covers tort liability and considers applications of medical professional liability via negligence theory. Emphasizes resource allocation and the healthcare dollar to illustrate constraints and choices in a consumer society of limited resources.

IDSC 513

Managing People (3)

Explores supervisory issues in healthcare settings for professionals who are new (less than two years) to supervisory positions. Presents theories of supervision and provides skill development in problem solving, conflict management, leadership, group process and interpersonal relations.

IDSC 514

Organization Development (3)

Presents a social-psychological perspective of the study of organizations. Presents strategies of organizational change, organization development as an independent concept and specific skills needed by organization development consultants. Addresses formal and informal power in organizations. Applies strategies effective to real-life situations.

IDSC 515

Neurobiology and Endocrinology (3)

Advances knowledge of the nervous system and its physiological mechanisms. Topics include how sensory information is perceived and transmitted, pattern recognition and central processing of information, learning and memory, and how behavior is generated and organized. Combines information with basic neurochemistry and neuropharmacology to apply it to selected neurological disorders.

IDSC 516

Designing Client-Centered Health Promotion Web Sites (3)

Provides information and practical experiences related to interactive health communication in order to design an e-health promotion website for an underserved population. Students work in interdisciplinary teams and apply interactive health communication knowledge to construct an interdisciplinary health promotion website for homeless individuals with chronic mental and physical health conditions; the website will assist in the management of their chronic health conditions on an ongoing basis.

Prerequisite: ID 310 or an equivalent health informatics course

IDSC 517

Introduction to Pharmacology (3)

Provides an overview and synthesis of basic mechanisms of drug action and the ways in which drugs interact with biological tissue. Emphasizes drug receptors, agonists and antagonists and predictability of many drug actions and side effects. Covers routes of administration, absorption, distribution and elimination, receptor theory, the nervous system and each major class of drugs.

IDSC 520

Issues in Physiology (3)

Discusses current issues in physiology involving the major organ systems. Explores these issues in depth at the metabolic, cellular and systemic levels. Integrates the knowledge and material at these different levels. Enables the student to better appreciate the field of physiology while preparing the individual for further study.

IDSC 521

Adult Development: Continuity and Change (3)

Explores the nature of adult development as influenced by external factors such as work, family and social systems and internal factors such as personality, identity and defense mechanisms.

Prerequisite: Psychology 323 or equivalent

IDSC 522

Marketing Healthcare Services and Programs (3)

Presents an overview of marketing techniques specific to healthcare services and programs. Explores the use of market research data in making strategic decisions. Applies techniques to the current healthcare environment through case studies and projects.

IDSC 523

Cardiac/Renal Physiology (3)

Provides a detailed analysis of physiological and biophysical processes that regulate cardiovascular and renal function. Develops understanding of the interrelationship between these two organ systems in health and disease. Emphasizes structure as it relates to function, electrophysiology, muscle mechanics, blood rheology, countercurrent theory and cellular transport. Employs journal articles to illustrate current research in special areas of cardiorenal physiology.

IDSC 524

Psychosocial Aspects of Disability (3)

Studies psychological, social and behavioral concepts related to disability as they apply to allied health professionals. Emphasizes importance of patient motivation, social support systems and psychosocial developmental needs in the rehabilitation process. Discusses role of the helping person with regard to value and authority/power dynamics.

IDSC 526

Accounting and Finance for Managers (3)

Introduces roles of accounting and finance in the healthcare industry. Covers basic concepts and their practical applications. Exposes students to a variety of financial professionals.

IDSC 527

Statistics, Epidemiology and Inference in the Health Sciences (3)

Presents fundamental concepts and methods of biostatistics and epidemiology. Emphasizes implications of various analytic approaches and their impact on decision-making and inference in the health sciences. Includes research design; concepts of probability, risk and sampling; measures of disease impact; screening procedures; analysis of treatment effects; and factors affecting the distribution of disease.

Prerequisite: Mathematics 301

IDSC 540

Launching New Ventures: An Entrepreneurial Approach (3)

Approaches the process of launching a new venture from a wholly practical standpoint. Starts with the premise that successful businesses are built before they ever open their doors. Facilitates the pre-venture planning process through such mechanisms as feasibility plans, business plans, marketing plans, operational plans, incorporation checklists and new product checklists.

IDSC 550

Care of the Elderly: An Interdisciplinary Approach (3)

Using a team approach and person-environmental theories, students design and field-test comprehensive services for individuals and their caregivers incorporating formal and informal social systems.

IDSC 560

Advanced Pharmacotherapeutics (3)

Examines selected topics in contemporary pharmacotherapeutics such as hypertension, diabetes, infectious diseases and women's health issues. Selects appropriate drug therapy for patients presenting with one of the selected disease states and develops a monitoring and outcome pharmacotherapeutic plan for the patient. Emphasizes rational decision-making skills in selecting drug therapy for patients of various social, economic and cultural backgrounds.

IDSC 570

Financial Management of Healthcare Organizations (3)

Examines the financial environment of healthcare institutions, including sources of revenue such as Blue Cross/Blue Shield, Medicare/Medicaid and HMO's (health maintenance organizations). Examines alternate methods of financial capital investment in conjunction with capital expenditure controls.

Prerequisites: ID 514, 526

IDSC 580

Providing Community Consultation in Health Care (3)

Teaches healthcare providers how to structure and deliver health services as a consultant in the community. Presents various consultation models and explores how they shape professional behavior and focus. Introduces health intervention techniques and provides opportunities to observe and practice these techniques in the classroom and on-site in community locations.

IDSC 585

Interdisciplinary Team-based Health Services for Underserved Populations I (3)

Provides information and experiences that meet both cognitive and affective learning objectives related to working as part of an interdisciplinary team providing community-based services to an underserved population. Develops team-building skills, integrating discipline-specific knowledge into an interdisciplinary framework, expanding key concepts on the biological, psychological and social aspects of underserved populations, and participating in interdisciplinary community-oriented services, including health promotion and restoration for homeless individuals.

IDSC 586

Interdisciplinary Team-based Health Services for Underserved Populations II (3)

Continuation of ID 585. Didactic experiences assist students in: a) improving and refining team skills through ongoing evaluation, b) implementing and evaluating interdisciplinary team-based health care, c) generalizing strategies of health care for individuals who are homeless to other underserved populations, and d) understanding linkages among theory-based practice, research, and health policy in the development and delivery of community-based health care to underserved populations. Practicum provides the opportunity to a) function as members of an interdisciplinary healthcare team, b) participate in case

management and consultation, c) implement and test interdisciplinary team-based strategies of health care, and d) design solutions to current legal, ethical or public policy issues regarding care of individuals who are homeless, and to discuss these solutions with service providers and health policy makers.

IDSC 589

Human Services Techniques (3)

Advances essential interpersonal skills for helping people with emotional, developmental, social or physical problems, both inside and outside the organized human service delivery system. Applies these skills to various therapeutic, supportive and preventive settings. Presents skills training in interviewing, counseling, stress management and group work. Enables health professionals from all specialties to learn about themselves and how they relate to others.

IDSC 590

Family Systems and Health Care: A Multicultural Perspective (3)

Presents a family-centered approach to the psychosocial needs of families dealing with chronic and life-threatening health problems in children and adults. Examines families from a multicultural perspective as they move through a variety of contexts. Challenges and guides the student health clinician's own beliefs and assumptions to promote healthy family functioning.

IDSC 595

Ethics and Scientific Method (3)

Examines the ethical character of scientific medicine. Explores ethical values and visions of medical researchers and how racial, social and scientific prejudices affect the design of experiments and implementation of research.

IDSC 627

Approaches to Management and Supervision (3)

Explores strategies for effective supervision, including personal and group communication skills, program development, strategic planning, problem-solving and staff evaluation, coaching, supervision and discipline. Using the adult learning continuum, students analyze their learning and supervisory style, develop a program change strategy, deal with and resolve conflict, empower staff members to participate in department management and effect change in a specific program.

IDSC 630

Applied Exercise Physiology

Applies principles of Medical Physiology and other clinical courses in which conditions/diseases are discussed in relation to exercise as an intervention. Presents principles of exercise physiology (metabolic, cardiovascular, pulmonary, muscular) along with information or nutritional considerations. Demonstrates practical applications of spirometry and submaximal exercise testing in the laboratory. Exposes students to how exercise prescription is directed when selected pathology is present and assists them in developing unique exercise programs for those pathologies.

Prerequisite: CPR certified, BIOL 110, 111 or permission of the instructor