

BSC

Behavioral Science

**BSC 152 YOU, ME, MYSELF, AND I: PSYCHOSOCIAL INFLUENCES ON HEALTH. (3)**

How do our individual thoughts, behaviors, and social interactions influence our health and wellbeing? In this interdisciplinary course, students explore problems that link psychosocial factors (such as cognition, beliefs, self-concept, social support, behavior change, stress, and decision-making) with health outcomes (such as depression, heart disease, addiction, obesity, and mortality). For those interested in pursuing careers in the health care professions, this course provides a basic understanding of the behavioral concepts that are included in professional school admissions tests as well as board certification tests. Prereq: None. Registration with consent of the course instructor.

**BSC 251 THE ENEMY WITHIN: CULTURE AND HEALTH BEHAVIOR. (3)**

This seminar will acquaint students with the major social, cultural, and behavioral phenomena that affect our reactions to variations in health. Students will move from knowledge of basic human universal psychological processes to the social and cultural factors shaping our perceptions of health and the delivery of health care. Concurrent with the conceptual material the use of the Rapid Appraisal (RA) technique for evaluating health needs of populations and environments will be introduced and mastered. For those interested in pursuing careers in the health care professions, this course provides an opportunity to apply the behavioral concepts that are included in professional school admissions tests to real-world health problems. Prereq: None. Registration with consent of the course instructor.

**BSC 301 DOCTORING UNDERCOVER: SHADOWING AND THE CULTURE OF MEDICINE. (3)**

This experiential learning course consists of three parts: 1) an interdisciplinary introduction to studies of the “culture” of Western medicine; 2) a placement at a shadowing site and directed observational activities related to the historical, social, and interpersonal contexts that shape contemporary health care; and 3) a unique contribution to a collaborative activity guide for other undergraduates who wish to shadow. In this writing intensive course, students learn to take an active role in the shadowing process by reflecting on their experiences and designing innovative educational materials for their peers. For those interested in pursuing careers in the health care professions, this course provides an opportunity to observe and analyze behavioral health concepts in clinical settings while also enhancing students’ application materials for professional school. Prereq: None. Registration with consent of the course instructor.

**BSC 331 BEHAVIORAL FACTORS IN HEALTH AND DISEASE. (3)**

The study of human behavior relating to health and disease and the organization of health care as a social system. Selected concepts from the psychological and social sciences are presented in a biobehavioral frame of reference and applied to the consideration of specific problems.

**BSC 425 INTRODUCTION TO INTEGRATIVE AND ALTERNATIVE MEDICINE. (3)**

This fully online course will delve into topics at the forefront of integrative and alternative medicine. Students will explore the history and organization of fields such as “functional,” “integrative,” and “complementary and alternative” medicine, and examine the content and philosophies of these fields. Students will learn about topics such as direct-to-consumer genetic testing, the use, regulation, and safety of vitamin, mineral, and botanical supplementation in personalized medicine, and the influence of ancient healing traditions such as Traditional Chinese Medicine and Ayurveda on Western medicine. This course will give students an introduction to an integrative and alternative view of health and healing. Prereq: Junior classification; undergraduate credit or permission of the instructor.

**BSC 534 ETHICS AND RESPONSIBILITY IN CLINICAL RESEARCH. (3)**

Clinical scientists need a sound understanding of the ethical principles guiding the conduct of research projects. This course will address issues relevant to ethically sound study design, responsible conduct of research and scientific misconduct. Students will also complete human subjects protection training and learn to conduct research in an ethical manner. During this course, students will engage in both in-class lecture and discussion sessions as well as out of class learning activities (outlined below). The final project for graduate students for this course will serve as a practical application of what is learned during the course to students’ stated research interest. The goal of this course is to provide an overview of ethical considerations when conducting and reporting clinical research, as well as to provide experience in the practice and application of ethics to clinical science.

It is assumed by the course directors that students in this course are either actively engaged in clinical research or intend to be involved in clinical research in the near future. This course has been designed around the principle that practical knowledge about how to conduct ethical research should be the focus. A second key principle of this course is that it is student-centered, meaning that it emphasizes the involvement of students in applying the concepts of ethics to their own research interests. The course activities are intended to promote the ethical application of research concepts to students’ areas of interest and to foster practical knowledge that supports students’ own research agendas. The diverse interests and experiences of students and faculty offer opportunities to learn from each other. Prereq: This course is designed for scholars pursuing research training in clinical and translational science to integrate and apply knowledge obtained in previous training. Permission is required from the Course Director for entry into the class.

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### **BSC 620 ORIENTATION TO MEDICAL BEHAVIORAL SCIENCE. (1)**

This course offers a structural exposure of students to the varieties of basic and clinical science research and current issues in health care policy under discussion at the University Medical Center. Following weekly attendance at research seminars and clinical rounds, students will present their observations in follow-up discussion groups. May be repeated to a maximum of three credits. (Same as CPH 841.)

### **BSC 625 FUNDAMENTALS OF BIostatISTICS FOR CLINICAL AND TRANSLATIONAL SCIENCE. (3)**

This course is designed to support clinical and translational science students in acquiring an applied understanding of the biostatistical tools and techniques commonly used in the conduct of clinical and translational science research. Through a combination of lectures, readings, demonstrations, discussions, and self-study modules, students will understand and appreciate measurement and statistical challenges that are common to clinical and translational science. Study design, selection of independent and dependent variables, and the selection and use of statistical techniques will be the focus of the course. The course activities are intended to promote the application of biostatistics to research concepts in the students' areas of interest and to foster practical knowledge that supports students' own research agendas. If the course is listed as section 001, the format of the course is a standard lecture/discussion. If the course is listed as section 002 the format of the course is a hybrid, with approximately 50% in the classroom and 50% in an on-line format. Prereq: This course is designed primarily for graduate students pursuing research training in clinical and translational science and who have been admitted to the Clinical and Translational Science training program. All students need permission of the instructor to enroll in this course.

### **BSC 626 SURVEY OF HEALTH PSYCHOLOGY. (3)**

A survey of the field of health psychology. It will explore the ways in which social and psychological research contribute to an understanding of health and illness behavior. Prereq: Graduate or professional standing and consent of instructor. (Same as PSY 626.)

### **BSC 731 METHODS AND TECHNOLOGIES IN CLINICAL AND TRANSLATIONAL SCIENCE. (3)**

This overview course is designed to introduce the student to the major methods and technologies of clinical and translational science (CTS) with an emphasis on human subjects research. Students learn these core methodologies through classroom discussions, readings, and written portfolio activities that challenge them to apply methodological concepts to their own areas of research interest. Specifically, the course teaches students how to formulate research questions and write literature reviews; apply CTS research methods, including experimental, survey, and qualitative research methodologies, to diverse areas of research by aligning appropriate methodologies to research questions of interest, and enhance interdisciplinary communication skills. It is assumed that students are engaged in research that is consistent with CTS or will become engaged in such research in the near future. Prereq: Graduate standing. Permission is required from the Course Director for entry into the class.

### **BSC 732 INTERDISCIPLINARY PROTOCOL DEVELOPMENT. (3)**

This course will introduce students to the processes involved in the development and implementation of interdisciplinary research. Students will be introduced to key aspects of the leadership, communication and teamwork involved in interdisciplinary research. Students will also be introduced to the structure and functioning of the NIH and the NIH grant application and review process. Finally, students will apply their knowledge regarding the research methods and technologies of clinical and translational science to develop an NIH-format research grant application that addresses a research topic in their own area of interest. This course is intended for advanced graduate or professional students pursuing focused research training in one of the degree or certificate programs available in clinical and translational science. It is expected students will have completed the course in Methods and Technologies in Clinical & Translational Science (BSC 731) prior to this course. Prereq: BSC 731 and graduate standing in the clinical and translational science program.

### **BSC 733 SEMINAR IN CLINICAL AND TRANSLATIONAL SCIENCE. (1)**

This seminar course is designed to orient students to clinical and translational research community and activities at the University of Kentucky and to incorporate a multidisciplinary cooperative approach to clinical and translational research. Students are expected to apply their knowledge of effective scientific communication, responsible conduct of research, and methods and technologies of clinical and translational science to ongoing discussions. The course will consist of seven evening seminars focusing on different topics of clinical and translational research. Students will be required to present a description of their research interests and activities during one seminar. Homework assignments will require students to summarize the key elements of each seminar as related to clinical and translational research and the relevance of these issues to their own research interests and career plans. Active participation by all members is expected. Prereq: Graduate standing.

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**BSC 746 RESEARCH ETHICS AND DILEMMAS.**

**(3)**

This class will utilize case studies for debate, class participation, and papers to help students gain skills to recognize and resolve research dilemmas. Objectives of this class include: (1) understand basic elements of ethical dilemmas; (2) to understand basic ethical theories and frameworks for solving ethical dilemmas; (3) to examine ethical dilemmas within a behavioral or medical science research context; and, (4) to examine ways of eliminating bias and promoting objectivity in a behavioral or medical science research context.

**BSC 750 HISTORY OF MEDICINE AMONG AFRICAN AMERICANS: IMPLICATIONS FOR HEALTH DISPARITIES.**

**(3)**

This course on the history of medicine among African Americans seeks to provide an understanding of the roots of the African American health deficit. The course will enable students to: 1) Articulate how the earliest encounters between African Americans and Western medical researchers set the stage for health inequities. 2) Engage in and direct thought-provoking discussions of how racist pseudoscientific ideas remain in contemporary society that contributes to health disparities among African Americans. 3) Critically examine the theory of eugenics and social Darwinism and how they are used to justify experimental exploitation and poor medical treatment of African Americans. 4) Understand and identify how historical and contemporary medical issues have contributed to medical ethics of distrust in the African American community.

**BSC 755 RACE, RACISM AND HEALTH DISPARITIES AMONG BLACKS IN THE U.S.**

**(3)**

This course on racism and health disparities is designed to support graduate studies in the social sciences, allied health, and medical disciplines. This course will briefly review the biological and social history of race in America; critique emerging views on the genetics of race; discuss how the classification/mechanism of “race” operates to contribute to health disparities; explore theoretical frameworks of racism and related measures; differentiate between the terms “health inequities”, “health inequalities” and “health disparities”; and, examine the biopsychosocial impact of racism on health. Although it is recognized that the discussion of race, racism and health is relevant to other “racially-classified social groups” the course will draw primarily upon the experience of Blacks in the U.S.

**BSC 760 AGING, HEALTH AND DECISION MAKING.**

**(3)**

This is a doctoral level seminar that provides an overview of behavioral decisional theories (e.g. rational choice, multiattribute utilities models, naturalistic decision-making, ethnographic decision models, Janis and Mann’s conflict theory, information processing theory, heuristic models, process tracing models, etc.) and examines research applications of those theories to the health of older adults. Research focuses on decision made by physicians, older adults, family caregivers and policy makers. A variety of applications include such decision domains as preventative screening, retirement and financial planning, other medical treatments, self-care, seeking medical care, institutionalization, end-of-life, etc.

**BSC 763 WOMEN’S TRAUMA AND MENTAL HEALTH.**

**(3)**

This course will examine the research on intimate partner violence, mental health, and substance abuse among women. Clinical and legal interventions will also be discussed. Although knowledge of at least basic statistics would be helpful, it is not required for this class.

**BSC 764 SEMINAR IN HEALTH INEQUITIES.**

**(3)**

This course is designed to critically examine undeniable inequities in the distribution of morbidity and mortality. Students explore linkages between disease burdens and the social, economic, and cultural contexts of our rapidly changing world by integrating local, national and international perspectives from social and biomedical sciences. Prereq: Graduate studies in the social sciences and permission of the instructor.

**BSC 765 RESEARCH PROBLEMS IN MEDICAL ANTHROPOLOGY.**

**(3)**

(1) Advanced history and theory of medical anthropology; (2) research design, field work, analysis of data in medical anthropology. Prereq: Consent of instructor. (Same as ANT 765.)

**BSC 766 CONCEPTS IN MEDICAL SOCIOLOGY.**

**(3)**

A review of sociological concepts and methods which have been applied to the study of health and medicine; the contributions of medical sociology to general sociological theory and to concepts and research on health-related problems of society. Prereq: Consent of instructor. (Same as SOC 766.)

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**BSC 770 PSYCHOSOCIAL ISSUES IN HEALTH AND AGING. (3)**

This course will focus on psychosocial issues related to the physical health and functioning of older adults. Topic areas include: theories of aging; age-appropriate research designs; age-related cognitive personality, social and family changes which influence physical health; health behavior and education of older adults; and selected chronic conditions, e.g. Alzheimer's disease, arthritis, depression, diabetes and stroke.

**BSC 772 TOPICAL SEMINAR IN MEDICAL BEHAVIORAL SCIENCE. (1-3)**

Advanced study of selected topics of current importance in medical behavioral science. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

**BSC 773 PSYCHOSOCIAL ONCOLOGY. (3)**

This course will introduce the student to the field of psychosocial oncology. Historical and recent developments in the application of behavioral science knowledge and methodology to the understanding and treatment of cancer and the cancer patient will be examined. The role of psychosocial factors in the etiology, prevention, and treatment of cancer will be explored. Emphasis will be placed upon the interaction of biological, psychological, and social factors throughout the course of cancer. Prereq: Graduate standing.

**BSC 774 FOOD AND FOOD SECURITY IN A CHANGING WORLD. (3)**

This cross-cultural seminar explores the biocultural interactions among food, human biology, and the social, cultural, political and economic factors that shape food-related behaviors and nutritional status of populations. Topics include the social role of food, food beliefs and ideology, the political economy of malnutrition, development strategies and food security, and methods in nutritional anthropology research. Readings and discussions are research focused and approach issues from a variety of theoretical perspectives. Prereq: ANT 601 or consent of instructor. (Same as ANT 774.)

**BSC 776 SEMINAR IN DEPENDENCY BEHAVIOR. (3)**

The course is designed to explore theories of dependency behavior by examining the concept of dependency as it can be applied to the study of various phenomena including alcohol use and abuse; dependence on other psychoactive substances; institutional dependency; dependency in work settings; and poverty and welfare. Prereq: Consent of instructor. (Same as ANT/PSY/SOC 776.)

**BSC 778 BEHAVIORAL FACTORS IN SELECTED DISEASES. (3)**

An exploration of behavioral science concepts which bear on various physical illnesses. The perspective of the course is interdisciplinary, using concepts from the various behavioral science disciplines. Prereq: Consent of instructor.

**BSC 779 BEHAVIORAL FACTORS IN DEATH AND DYING. (3)**

Behavioral concepts are examined which explain reactions of individuals, collectivities and social institutions to the phenomenon of death. Prereq: Consent of instructor.

**BSC 782 WOMEN'S HEALTH AND AGING. (3)**

This class explores the issues related to health and well-being among older women. Using a multidisciplinary approach that blends humanities, social and medical science and public policy, the course examines social, economic and cultural contexts of chronic physical and mental health. Prereq: Upper level/graduate class in social science. (Same as GRN 782.)

**BSC 787 BIOBEHAVIORAL PERSPECTIVES ON DRUG AND ALCOHOL ABUSE AND DEPENDENCY. (3)**

This seminar course is designed to survey major topics, concepts and issues pertinent to the field of drug and alcohol abuse and dependence. The course will consist of 14 weekly presentations by instructors followed by open discussion of the presentation and assigned readings by class members. Active participation by all members is expected. Each weekly presentation is designed to provide a general overview of the current state of knowledge (e.g. theory, methods, ethics, review of classic and/or exemplary studies) in a given area of drug and alcohol abuse and dependence research. Discussions are intended to integrate the information across traditional disciplinary boundaries. Prereq: Graduate standing.

**BSC 788 DRUG ABUSE: CONTEMPORARY THEORIES AND ISSUES. (3)**

This course is designed to familiarize students with major concepts and current issues in the field of substance abuse research.

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**BSC 790 RESEARCH IN MEDICAL BEHAVIORAL SCIENCE. (1-6)**

Individually directed research and reading in particular aspects of medical behavioral science under the supervision of one or more members of the faculty. May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

**BSC 814 PATIENTS, DENTISTS AND SOCIETY I. (1)**

This course aims to orient the student to the place health and health professions play in modern cultures. Recognition of their own social assumptions and values and those of persons of different backgrounds is encouraged. Understanding, predicting, and changing dental patient behavior from a social standpoint is emphasized. (Same as CDE 814.)

**BSC 815 FIRST-YEAR ELECTIVE, BEHAVIORAL SCIENCE. (1-3)**

With the advice and approval of his or her faculty adviser, the first-year student may choose approved electives offered by the Department of Behavioral Science. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the first-year curriculum. Pass-fail only. Prereq: Admission to first year, College of Medicine.

**BSC 824 COMMUNICATION IN THE DENTAL HEALTH CARE SETTING. (1)**

This course aims to improve the student's ability to communicate with patients and the public in an empathetic and professional manner. Methods of obtaining necessary health information from all types of patients are taught. Prereq: Second year standing in the College of Dentistry. (Same as CDE 824.)

**BSC 825 SECOND-YEAR ELECTIVE, BEHAVIORAL SCIENCE. (1-4)**

With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Behavioral Science. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser.

**BSC 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)**

With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

**Approved electives:**

**BSC 850 ELECTIVE IN BEHAVIORAL SCIENCE**

**BSC 880 TREATMENT OF DENTAL FEAR**