BIOBEHAVIORAL HEALTH (BBH)

BBH 19: Health and Disease
1 Credits

Essentials of communicable and chronic disease control.

First-Year Seminar

BBH 48: Values and Health Behavior
1.5 Credits

Examination of issues that impact the social, emotional, and physical well-being of college students through a values and decision-making process. BB H 048 Values and Health Behavior (1) (GHA) This is a 1 credit course designed for non-BB H majors who want a greater understanding of concepts related to health and health promotion and who want to learn practical skills related to optimizing health and improving lifestyle behaviors. General health topics that are relevant to students as they adjust to the transition into--and through--college are introduced through a values and decision-making approach to learning. The course is designed to give students a broader understanding of both short-term and long-term wellness and how it is affected by behavior. Concepts regarding personal health and development are introduced using individual and group activities. To impact behavior, a model for decision-making that includes facts, risks, and consequences is utilized within an experiential learning approach. Students will work individually to perform self-assessment of health-related activities (e.g., nutrition, alcohol and drug-related knowledge and risk behaviors) and in small groups to further assess and describe the effects of health behaviors on short-term and long-term wellness. The course will be evaluated through completion of several short reaction papers to reading assignments and internet research, a group project on health promotion, completion of a health-related journal, and completion of a personal behavior change plan.

General Education: Health and Wellness (GHW)

BBH 101: Introduction to Biobehavioral Health
3 Credits

Introduction to an interdisciplinary study of health, examining the interaction of biological processes and behavior on health.

General Education: Health and Wellness (GHW)

BBH 101H: Introduction to Biobehavioral Health
3 Credits

Introduction to interdisciplinary study of health, examining the interaction of biological processes and behavior on health.

General Education: Health and Wellness (GHW) Honors

BBH 119: Behavior, Health, and Disease
3 Credits

Principles of health promotion, disease prevention, and treatment of acute and chronic illness. This course is designed for non-BB H majors. BB H 119 Behavior, Health, and Disease (3) (GHA) This course is designed for non-BB H majors who want a fundamental understanding of disease processes, disease states, and principles of disease prevention and health promotion. This course should help students in the biological and behavioral sciences better understand practical applications of theoretical approaches to health issues. The course will provide a broad understanding of the major human diseases underlying morbidity and mortality in America. The course will cover most major diseases using a variety of organizational schema including: (1) diseases according to organ systems, (2) diseases according to developmental and age-related processes, and (3) diseases according to causal factors including behavioral (lifestyle), environmental, and genetic factors. The course content is organized to encourage promotion of a healthy lifestyle, prevention of disease and understanding the causes and management of acute and chronic illness. The course includes information and assignments to allow the student to appropriately assess one's own health, estimate health trajectories, access and use the health care systems on campus and in their home communities, and develop a long-term health promotion plan. The student will also learn specific skills to find and evaluate traditional and non-traditional treatment processes when they or family members become sick with an acute illness or chronic disease, and to better engage with health care professionals and the health care system for management of illnesses that they or their family may have or develop. Students will also learn practical skills in being able to access a variety of sources to update knowledge about disease causality and treatment and to critically appraise these sources. Students intending to major in Biobehavioral Health should take BB H 101--Introduction to Biobehavioral Health.

General Education: Health and Wellness (GHW)

BBH 130: Strategies for Addressing the Obesity and Diabetes Epidemics
3 Credits

Strategies for understanding and modifying the factors underlying weight, health, and the current U.S. and worldwide obesity/diabetes epidemics.

General Education: Health and Wellness (GHW)

BBH 143: Drugs, Behavior, and Health
3 Credits

Health aspects of use and abuse of licit and illicit drugs; related social problems and prevention. Designed for non-BB H majors. BB H 143 Drugs, Behavior, and Health (3) (GHA) This course is designed for non-BB H majors who want a fundamental understanding of health and social issues relating to drug and alcohol use and abuse. This course should help students in the biological and behavioral sciences better understand practical applications of theoretical knowledge relating to drug physiology, drug-related health effects, health promotion and disease prevention, issues related to social and psychological effects of drug use and abuse, and drug control policies. The course will cover a broad array of drugs including licit drugs (e.g., therapeutic drugs, tobacco,
caffeine, alcohol, etc.), and illicit drugs (amphetamine, marijuana, hallucinogens, etc.) with additional focus on drugs liable for addiction and the progression from occasional use to addiction. The course will cover the basics of drug pharmacology, including pharmacokinetics and pharmacodynamics. Special attention will be given to toxicology and addiction physiology. The course is broad in scope, covering subjects such as alcohol and drug use and misuse in specific populations (youth college students, etc.), toxicity and threats to children and adults posed by common therapeutic drugs (aspirin, prescription drugs, etc.), and prevention and treatment strategies for overdoses (e.g., emergency treatment, use of poison control centers, etc.). The course will involve student and faculty discussion of laws concerning the manufacture, distribution and use of drugs, including alcohol and tobacco, and drug development. Students will engage in activities to learn the most efficacious strategies for prevention, intervention and treatment for drug-misuse-related disorders, including community-based programs to pharmacological intervention, and detoxification. Students will engage in a number of activities that involve self-assessment of personal drug use and potential health trajectories. A significant portion of the course will involve accessing drug-related websites to complete specified exercises in data gathering, synthesis, and critical evaluation of issues relating to drug use and abuse and drug control. These exercises will involve both written reports and oral discussions and applications to contemporary society and community. Students will learn practical skills in being able to access a variety of sources to update knowledge about causality and treatment of addictions and to critically appraise these sources. Students intending to major in Biobehavioral Health should take BBH 451—Pharmacological Influences on Health.

General Education: Health and Wellness (GHW)

BBH 146: Introduction to Health and Human Sexuality
3 Credits
An examination of human sexuality as it relates to health.

General Education: Health and Wellness (GHW)

BBH 148: Coping with College: A First Year Transition Seminar
2 Credits
Exploration of effective learning strategies, university resources, academic requirements and planning, career development issues in discussion-centered environment.

First-Year Seminar

BBH 150N: Safe and Sound: The Intersection of Criminal Justice and Public Health
3 Credits
This course will consider the overlapping responsibilities and epistemologies of criminal justice and public health. Both fields concerned with the promotion of population welfare, the public health and criminal justice systems nevertheless confront the same social problems from different ethical perspectives, research methodologies, and knowledge bases. Each may further mobilize different institutional actors driven by divergent political agendas. While we will discuss the productive collaboration between public health and public safety agencies, we will also consider ongoing ownership struggles over certain issues, behaviors, and even populations. Given its practical relevance to many ongoing social issues and controversies of general importance, this course is motivated by a commitment to community-engaged scholarship and thus will include topics, readings, assignments, speakers, and field trips of local and state importance. At the same time, specific topics will be framed in terms of their national and international importance, and students will be encouraged to link micro-level problems to macro-level processes.

Cross-listed with: CRIMJ 150N
General Education: Health and Wellness (GHW)
General Education: Social and Behavioral Scienc (GS)
General Education - Integrative: Interdomain
GenEd Learning Objective: Crit and Analytical Think
GenEd Learning Objective: Integrative Thinking
GenEd Learning Objective: Key Literacies

BBH 197: Special Topics
1-9 Credits/Maximum of 9
Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

BBH 197J: Special Topics - InterDomain
3 Credits/Maximum of 3
Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is an Inter-Domain GS/GHW GenEd course.

General Education: Health and Wellness (GHW)
General Education: Social and Behavioral Scienc (GS)
General Education - Integrative: Interdomain

BBH 199: Foreign Studies
1-12 Credits/Maximum of 12
Courses offered in foreign countries by individual or group instruction.
International Cultures (IL)

BBH 203: Neurological Bases of Human Behavior
3 Credits
An introduction to biopsychology, emphasizing the structure and function of the human brain. BBH (PSYCH 260) 203 Neurological Bases of Human Behavior (3) The nervous system provides the biological underpinning of behavior, and several scientific fields are concerned with the relationship between the nervous system and behavior. The goal of this course is to introduce the principle methods, findings, and theories of these scientific fields. Topics include (a) the anatomy and physiology of the nervous system, (b) how the nervous system gives rise to perception, action, language, memory, emotion and reproductive behavior, and (c) how drugs and mental illnesses affect the nervous system and alter normal perceptual, cognitive, and emotional behavior. The course prepares students for a number of more advanced courses in Psychology and Biobehavioral Health that address specialized topics in neuroscience, and may satisfy a requirement of these majors.

Cross-listed with: PSYCH 260
BBH 210: Biobehavioral Aspects of Genetics

3 Credits

An individual's DNA is a key biological process involved in behavior, health, and disease. The goal of this course is to introduce the foundational concepts of genetics in a Biobehavioral Health framework. This course will examine how genes are encoded by DNA, how DNA is transcribed into RNA, and how RNA is translated into protein. Additionally, this course will cover DNA at the global level of the chromosome. Finally, variation across levels will be explored. For example, variation at the level of an individual DNA base pair or through alterations in chromosome structure. Application of these concepts to human health and disease will be highlighted throughout the course. The course prepares students for a more advanced course in Biobehavioral Health that address specialized topics in health and developmental genetics.

Prerequisites: BIOL 110; BIOL 161

BBH 251: Straight Talks I: Advanced Sexual Orientation/Gender Identity Peer Education

3 Credits

Exploration of social justice issues, diversity leadership, and group facilitation skills related to lesbian, gay, bisexual, transgender, and ally issues. BB H 251 Straight Talks I: Advanced Sexual Orientation/Gender Identity Peer Education (3) (US) Straight Talks I provides students an opportunity to explore various lesbian, gay, bisexual, transgender and allies (LGBTA) issues from an educational perspective. Students will be exposed to theories, terminology, and various speakers who will approach topics such as LGBTA history and multicultural issues. The course projects are designed to enhance both written and oral skills, and provide students an opportunity to work together. Finally, the course challenges students to think critically about the social, economic, and political cultures around them and how these cultures affect sexual and gender orientation issues. Course Objectives:Philosophical 1. To think critically about your spiritual, social, economic, political and cultural existences and their relationship to your understanding of sexual and gender orientation issues. 2. To develop a critical consciousness that will bring awareness of the ways custom, ritual and tradition helped shape and continue to shape our daily lives. 3. To develop a fuller understanding of the way gender and sexual orientation are conceived of by other people and the ways in which these conceptions link with other elements of identity including ethnicity, class, gender, ability etc. 4. To challenge you to consider the following questions: a) What does it mean to provide educational programming? b) What does it mean to be a peer educator? c) How do I influence others by my involvement in this program? d) How do I what to influence others by my involvement in this program? e) How do I change the world so that it is a better place when I leave it? Praxis 1. Develop facilitation and presentation skills. 2. Obtain knowledge about LGBTA history and current issues and concerns. 3. Conceive of and articulate what it means to ‘come out’. 4. Acquire information on sexual orientation, identity development and queer history. 5. Refine your ability to provide programming activities in the form of facilitation, discussion, skits, and exercises. 6. Develop a sense of community and rapport with other panelists through class discussions and projects.

United States Cultures (US)
in the context of social, environmental, and cultural influences when examining health issues. To achieve these objectives, the course will involve open class discussions, small break-out group discussions, written assignments, and a presentation (e.g., poster or other media presentation) requiring the acquisition and utilization of information/research from library and internet resources.

Prerequisite: PSYCH100 or SOC 001
Cross-listed with: AFAM 302
United States Cultures (US)

BBH 305: Introduction to Global Health Issues
3 Credits

Course will develop awareness of contemporary issues in global health. BB H 305 Introduction to Global Health Issues (3) This course is an introduction to health and related issues in the global context. It is intended to be an overview of fundamental perspectives about the historical, current, and future public health challenges facing developing and industrialized countries. The course will explore the interrelationships among social structure, culture, demography, health promotion/disease prevention, biology, ecology and health policy of various countries and international health organizations. This course will 1. present key issues related to the history, conceptual frameworks, economic conditions, and policy affecting public health in the global context, 2. examine reports and studies pertaining to global health issues and comparative research, 3. discuss the role of social structure, culture, gender roles, government policies, and the increasing numbers of the elderly in preventive health behaviors and health promotion in the global context, and 4. critique theories and models used to inform health and development programs in non-Western nations.

Prerequisite: BB H 101
Cross-listed with: AFR 305
International Cultures (IL)

BBH 310: Research Strategies for Studying Biobehavioral Health
3 Credits

Surveys the various research methodologies used in biomedical research, including case, epidemiological, quasiexperimental and experimental approaches.

Prerequisite: BB H 101, STAT 200

BBH 311: Interdisciplinary Integration in Biobehavioral Health
3 Credits

A review of literature relevant to the concepts and findings of different scientific domains as they apply to biobehavioral health.

Prerequisite: BB H 101, BIOL 110, PSYCH100

BBH 315: Gender and Biobehavioral Health
3 Credits

Interdisciplinary study of gender, examining the interaction of biological, behavioral, and sociocultural factors on health differentials throughout the lifespan. BB H 315 Gender and Biobehavioral Health (3) (US) BB H 315 is an interdisciplinary study of the impact of gender differences (and similarities) in health in the United States and the world, examining the interaction of biological, behavioral, and sociocultural factors on health, morbidity, and mortality. The course will also consider and critique the methods used in the study of gender and concepts and issues related to the measurement of health in men and women. The ultimate goal of this course is to assist students in developing an appreciation of the diversity concept of gender, and the impact of this concept on assessments and study of health, health status, and health promotion in America and other nations. The course is also designed to integrate different sources of information about gender by utilizing critical thinking skills for the consumption of health information. The educational objectives will be to enable students to: 1) define the concepts of sex, gender, gender roles, and gender identity and how they contribute to differentials in morbidity and mortality at various life stages, based on epidemiological data and other research, in the United States and other countries; 2) describe biological (e.g., genetic and hormonal) factors that contribute to gender differences and similarities in health at different life stages; 3) describe behavioral factors, such as acquired risks, self-protective behavior, and stress, that contribute to gender differences and similarities in health at various life stages; 4) describe sociocultural factors, such as gender roles, class, race/ethnicity, and educational level that contribute to gender differences and similarities in health at various life stages; 5) describe and design gender-sensitive strategies for health research and health promotion; 6) examine gender differences in a specific illness, disease, or health issue experienced by women and/or men in this country and others, and the contributing factors (e.g., sociocultural) to the differences that may exist; and 7) critique gender research on particular health issues. To achieve these objectives, the course will involve open class discussions, small break-out group discussions with written assignments, short quizzes, a paper requiring the acquisition, utilization, and critical analysis of information/research from library and internet resources, and a group presentation that requires collaborative work.

Prerequisite: BB H 101
United States Cultures (US)

BBH 316: Foundations and Principles of Health Promotion
3 Credits

Basic exposure and skills development in theory and practice in health promotion. BB H 316 Foundations and Principles of Health Promotion (3) BB H 316, Foundations and Principles of Health Promotion, is a 3-credit course required of all BB H majors and available to other students interested in developing a basic knowledge in health promotion interventions. The course is designed to provide students with the conceptual foundation necessary to develop health promotion programs and interventions. It will involve information on both theory and practice. The educational objectives are that students will be able to: 1) define the concepts and levels of health, health promotion, and prevention; 2) describe the variety of settings in which health promotion and preventive services exist 3) identify levels of intervention in planning health education and health promotion programs; 4) describe a rationale for health promotion programs; 5) address the role of culture, environment, and policy in health behavior; 6) explain why different levels of health promotion interventions should be planned using theoretical frameworks. Students fulfill the educational requirement of the course by attending class, completing reading and class assignments and small group project, viewing video tapes, and participating in class discussions.

Prerequisite: BB H 101
Biobehavioral Health (BBH)
Prerequisite: BB H 305, BB H 440 or H P A440, and admission to the Global Health minor

BBH 390B: Global Health Field Experience

6 Credits

Field experience in a global health setting. BB H 390B Global Health Field Experience (6) The purpose of this course is to provide a supervised field experience in a global health setting for the students who have been admitted to the Global Health Minor (GLBHL). Students in this minor must take BBH 390A "Preparation for Global Health Field Experience" before scheduling this course. Students will spend 6 weeks in the summer working in one of several pre-approved international or domestic health care or public health settings under professional supervision.

Prerequisite: BB H 390A and admission to the Global Health minor

BBH 397: Special Topics

1-9 Credits/Maximum of 9

Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

BBH 399: Foreign Studies

1-12 Credits/Maximum of 12

Courses offered in foreign countries by individual or group instruction.

International Cultures (IL)

BBH 402: African Health & Development

3 Credits

Course will address African health and development strategies in the context of health promotion programs. BB H 402 African Health & Development (3) (IL)This course is designed to address African health and development strategies in the context of health promotion programs. Students will analyze the cultural, educational, social, economic, political and environmental impact of health and development in Africa. Emphasis will be on development of health promotion strategies that locate program implementation and evaluation within their cultural contexts. The objectives are to prepare students to: 1. discuss and debate the roles of culture, social contexts, gender, and political economic impact on health behaviors in Africa; 2. critique some of the theory and models used to inform public health programs in Africa; 3. examine the role of historical, spiritual, linguistic, and political impacts on health projects in different countries in Africa; and 4. analyze health priorities in Africa and their impacts on such global initiatives as the Millennium Development Goals. 5. Discuss issues related to human rights, population identities in the world and examine their impact on health in Africa. Attendance is required. Students will be expected to participate actively by critically reviewing assigned readings, engaging in class discussions, and preparing and delivering in-class presentations. Grading is based on attendance, participation, presentations, exams and a final research paper.

Prerequisite: BB H 305

International Cultures (IL)
to acquire, integrate, and critique health-related information and to communicate to professional and non-professional audiences. The course is appropriate for students intending to obtain positions in health promotion and disease prevention and to students seeking to advance to post-baccalaureate graduate and professional programs in medicine, public health, health policy and planning, and other health-related careers.

**Prerequisite:** BB H 101, BB H 310, STAT 200

**Writing Across the Curriculum**

BBH 416: Health Promotion II: Planning, Implementation, and Evaluation

3 Credits

Planning, implementation, and evaluation of health promotion, prevention, and intervention programs; emphasizing evaluation.

**Prerequisite:** BB H 310, BB H 316

Cross-Listed

BBH 417: Advanced Applications in Health Promotion

3 Credits

Advanced learning experience in health promotion applications in which students will actively participate in planning, implementing, evaluating health programs.

**Prerequisite:** BB H 416

BBH 420: Developing Stress Management Programs

3 Credits

Planning, developing, and implementing strategies for stress management programs for health education professionals in school, community, and corporate settings.

Cross-Listed

BBH 432: Biobehavioral Aspects of Stress

3 Credits

Comprehensive discussion on the mechanisms of stress-induced diseases.

**Prerequisite:** BB H 101, BIOL 141

BBH 440: Principles of Epidemiology

3 Credits

Theory of epidemiology and significant case studies; potential applications to health care. BBH / HPA 440 Principles of Epidemiology (3) (US,IL) This course is designed to provide students with a basic understanding of the principles of Epidemiology and to familiarize students with the methods and applications of epidemiology to understanding the bases for heterogeneity of disease and health among populations. The goals of the course are: 1) recognize and use basic principles, concepts, terminology, and techniques in Epidemiology as applied to the study of infectious disease, chronic diseases, and other health-related problems; 2) examine and understand measures of risk and burden of illness on populations defined in terms of age, race, gender, class, time, and other relevant socio-cultural and demographic factors; 3) be able to interpret and critique epidemiological research reports on the identification of risk factors and casual factors for diseases in populations; 4) assess the health status and burden of diseases and health problems of populations at multiple levels of analysis for the purpose of planning health promotion activities and health care services; 5) have a basic understanding of the epidemiology tools for disease screening and other methods for primary and secondary prevention of disease and health problems; 6) examine the validity and applicability of various health interventions used to improve health status and the barriers for successful interventions; and 7) have a basic understanding of the epidemiology of the major causes of morbidity and mortality in the U.S. and for other selected regions and nations of the world. This is a required course in the Biobehavioral Health major and an elective course in the Health Policy and Administration major. The course is also appropriate for students intending to advance to post-baccalaureate graduate and professional programs in medicine, public health, health policy and planning, and other health-related careers. Students will be evaluated based on their performance on a combination of written assignments, a term paper or project, and exams.

**Prerequisite:** BB H 101 or BIOL 110 or H PA 310; STAT 200 or STAT 250

Cross-listed with: HPA 440

International Cultures (IL)

United States Cultures (US)

BBH 446: Human Sexuality as a Health Concern

3 Credits

Examination of human sexuality as a integral part of basic health education and health care for persons of all ages.

**Prerequisite:** BB H 101

Cross-Listed

BBH 451: Pharmacological Influences on Health

3 Credits

Biological and behavioral aspects of therapeutic and recreational drug use and misuse, and their relationships to health. BB H 451 Pharmacological Influences on Health (3) The primary theme of this course is to review and integrate information relevant to the actions, uses, and biobehavioral influences of psychoactive drugs. Concepts relevant to pharmacology, biobehavioral health, and drug use and abuse will be learned. The primary objectives of this course are: 1. To provide an understanding of the concepts relevant to pharmacology, including: principles of drug action (pharmacokinetics, pharmacodynamics), drug safety, and drug effectiveness. 2. To provide a descriptive representation of the breadth of topics relating to behavioral and biological influences of psychoactive (i.e., therapeutic, recreational) drugs on human health and disease. 3. To provide exposure to and enhance critical thinking skills in current research related to the biobehavioral effects of psychoactive (i.e., therapeutic, recreational) drugs, including: psychoactive drug use and abuse, therapeutic drug use, and drug addiction treatments.

**Prerequisite:** BB H 101, BIOL 141, PSYCH100

BBH 452: Women's Health Issues

3 Credits

Recommended Preparations: BIOL 141; PSYCH 100; WMNST 100

N452 examines major health issues concerning women today. The topics covered include, but are not limited to: developing a healthy life style—nutrition and exercise; family planning—birth control methods; violence against women—relationship rights and signs of a batterer;
eating disorders—anorexia, bulimia, and binge eating; sexual wellness; substance abuse—alcohol, prescription drugs; menopause signs and symptoms, treatments; and medical conditions affecting women today such as cancer, arthritis, multiple sclerosis and heart disease. The course emphasizes that women's lives are influenced by social, economic, political, and cultural conditions.

**Recommended Preparation:** BIOL 141 or PSYCH 100 or WMNST 100
Cross-listed with: NURS 452, WMNST 452
United States Cultures (US)

**BBH 458: Critical Issues in Reproduction**
3 Credits

Examination and analysis of the new reproductive technologies from the standpoint of medical ethics, feminism, and sociocultural influences.

**Prerequisite:** BIOL 141 or PSYCH 100 or WMNST 100
Cross-listed with: WMNST 458
General Education: Social and Behavioral Sciences (GS)

**BBH 468: Neuroanatomical Bases for Disorders of Behavior and Health**
3 Credits

An examination of the anatomical/cellular/molecular bases for human central nervous system disorders and their impacts on victims/families/caregivers. BBH 468 Neuroanatomical Bases for Disorders of Behavior and Health (3) This course will examine in detail and in depth the neuroanatomical and cellular/molecular/genetic bases for selected disorders of the human central nervous system (e.g. Parkinson’s, Alzheimer’s, stroke, etc.) and their impacts on the victim, his/her daily life and his/her family and care givers. Damage to, or malfunctions of, any part of the central nervous system causes specific and characteristic disruptions of normal processes, which manifest as abnormal and/or absent behaviors. Current research on the anatomical, cellular, molecular, and genetic bases for the disorders and the current/future trends in prevention/treatment of the disorders will be studied. Upon successful completion of the course, the student should be able to: a) describe the physical signs, symptoms, causes, effects on the patient and his/her family & care givers, prognoses, treatments, and support systems available to these patients, of the neurological disorders covered in this course; b) describe the neuroanatomical, cellular, and molecular bases for these conditions; c) describe the current research on these disorders and the new prevention/treatment approaches being developed. The evaluation of students’ performances in the course will be typically based on multiple choice examinations and a library research paper. This course will count toward fulfilling the BBH major requirement. "Take 15 credits in Biobehavioral Health.

**Prerequisite:** BBH 368, BBH 469 or PSYCH 260

**BBH 469: Neurobiology**
3 Credits

Students will acquire an understanding of basic neurobiology, the terminology of neuronal structures and functions, as well as experimental approaches designed to integrate the principles of neural cell biology, neurophysiology, neurochemistry, neuroendocrinology, neuropharmacology, genetics and molecular biology. The learning objectives of this course are to establish a working knowledge and understanding of: (i) the cellular structures, organelles and passive and active membrane properties important for neural function, (ii) the neurotransmitters, receptors, ion channels and 2nd messenger systems underlying synaptic transmission and other forms of neural signaling, (iii) the development of the nervous system including neurogenesis, neural maturation, apoptosis, synaptogenesis in both the developing and adult CNS, and (iv) the molecular mechanisms underlying synaptic plasticity and learning and memory. Lastly, (v) the course will demonstrate applications of above knowledge to select complex diseases of the central nervous system.

**Enforced Prerequisite at Enrollment:** BIOL 230 W or BIOL 230M or BMB 251 or BMB 251H or BIOL 240W or BIOL 240M
Cross-listed with: BIOL 469

**BBH 470: Functional and Integrative Neuroscience**
3 Credits

Neurobiological function in motivated behaviors, motor and sensory function, learning and memory, development, sexual differentiation, and pathology.

**Enforced Prerequisite at Enrollment:** BIOL 469
Cross-listed with: BIOL 470

**BBH 490: Introduction to Internship Experience**
3 Credits

Provide an integrative learning experience to develop professional skills encountered in an internship experience and future careers in biobehavioral health. BBH 490 Introduction to Internship Experience (3) This course is a prerequisite for BBH 495, Internship Experience in Biobehavioral Health. This course will provide students with the professional and academic skills necessary to develop an internship, be successful in an internship and equip students with the tools necessary to launch a career within the field of BBH or enable students to prepare more competitive applications for entry into post baccalaureate programs in medical fields or graduate school. The primary goal of the course is to provide integrative learning experiences preparing students to be successful in their internship endeavor, while learning practical skills necessary to flourish in future career choices. Course topics include: professional self-assessment and critical reflection, experiential learning, person/environment fit, resume creation and professional writing criteria, practical skills related to securing an internship consistent with professional goals, interviewing skills, professionalism and ethics within the BBH field, effective communication and internship agreement guidelines. Through this practical application, students will gain the necessary proficiencies and awareness of career settings, protocols and contexts under which BBH specialists work and/or prepare for future educational opportunities.

**Prerequisite:** at least 9 credits from 300-level BBH

**BBH 494: Research Project**
1-12 Credits/Maximum of 12

Supervised student activities on research projects identified on an individual or small-group basis.
BBH 494H: Senior Honors Thesis
1-6 Credits/Maximum of 6
Independent study related to a student’s interests directed by a faculty supervisor and culminating in the production of a thesis.

**Prerequisite:** approval of honors thesis advisor

Honors

BBH 495: Internship Experience in Biobehavioral Health
6-12 Credits
This course provides experiential learning in the field. Internship Supervision and support will be provided by site and university personnel.

**Prerequisite:** BB H 490

BBH 496: Independent Studies
1-18 Credits/Maximum of 18
Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.

BBH 496H: Independent Honors Study in BB H
1-3 Credits/Maximum of 6
For non-thesis independent study/research by Schreyer Honors College scholars.

Honors

BBH 497: Special Topics
1-9 Credits/Maximum of 9
Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

BBH 499: Foreign Studies
1-12 Credits/Maximum of 12
Courses offered in foreign countries by individual or group instruction.

International Cultures (IL)