

# Biopsychology (Bachelor of Arts)

## Division of Social Sciences

- **BA: 40 credit hours**
- **Major GPA required for graduation: 2.00**
- **All courses for the major must be completed with a grade of C- or better**

### PROGRAM REQUIREMENTS:

- **Capstone: BIO 492/PSY 492**  
**Biopsychology Capstone**
- **Research: PSY 496 or BIO 445**

**Description of Major:** The biopsychology major blends the disciplines of psychology and biology. This major prepares students interested in helping careers, accelerated nursing programs, or graduate programs in psychology, occupational therapy, physical therapy, speech therapy, etc.

Please note, students wishing to pursue graduate work or advanced study should research the requirements and prerequisites for their desired programs early enough to ensure that additional coursework can be added, if needed. This major is intended to provide a solid foundation, but additional courses may be required for admission to specific programs.

### Student Learning Outcomes

*Students will:*

- Synthesize the content areas of psychology and biology.
- Conduct independent research in psychology or biology.
- Prepare for a career in the helping professions or graduate programs.

### BIOPSYCHOLOGY CORE REQUIREMENTS 31 crs.

PSY 153	INTRODUCTION TO PSYCHOLOGY	3
PSY 201	PSYCHOLOGY CORNERSTONE	1
PSY 275	BIOPSYCHOLOGY	3
PSY 315	ABNORMAL PSYCHOLOGY	3
PSY 498	PROFESSIONAL SEMINAR	2
BIO 110	PRINCIPLES OF CELLULAR AND MOLECULAR BIOLOGY	5
BIO 308	HUMAN ANATOMY AND PHYSIOLOGY I	5
BIO 309	HUMAN ANATOMY AND PHYSIOLOGY II	5
MTH 170	STATISTICS	3
BIO 492/PSY 492	BIOPSYCHOLOGY CAPSTONE	1

### BACHELOR OF ARTS 40 crs.

*Complete the core requirements, plus the following:*

PSY 301	PSYCHOLOGICAL STATISTICS	3
PSY 396	RESEARCH METHODS	3
PSY 496	SENIOR THESIS (W)	3

### RECOMMENDED ELECTIVES

BIO 211	GENETICS	4
BIO 450	INDEPENDENT STUDY	1-4
CHE 105	GENERAL CHEMISTRY I	4

# Biopsychology (Bachelor of Science)

## Division of Science and Mathematics

- **BS: 43 credit hours**
- **Major GPA required for graduation: 2.00**
- **All courses for the major must be completed with a grade of C- or better**

### PROGRAM REQUIREMENTS:

- **Capstone: BIO 492/PSY 492 Biopsychology Capstone**
- **Research: Biology Research Methods (BIO 455) (W)**

**Description of Major:** The biopsychology major blends the disciplines of psychology and biology. This major prepares students interested in helping careers, accelerated nursing programs, or graduate programs in psychology, occupational therapy, physical therapy, speech therapy, etc.

Please note, students wishing to pursue graduate work or advanced study should research the requirements and prerequisites for their desired programs early enough to ensure that additional coursework can be added, if needed. This major is intended to provide a solid foundation, but additional courses may be required for admission to specific programs.

### Student Learning Outcomes

*Students will:*

- Synthesize the content areas of psychology and biology.
- Conduct independent research in psychology or biology.
- Prepare for a career in the helping professions or graduate programs.

### BIOPSYCHOLOGY

#### MAJOR CORE REQUIREMENTS 31 crs.

PSY 153	INTRODUCTION TO PSYCHOLOGY	3
PSY 201	PSYCHOLOGY CORNERSTONE	1
PSY 275	BIOPSYCHOLOGY	3
PSY 315	ABNORMAL PSYCHOLOGY	3
PSY 498	SENIOR SURVEY IN PSYCHOLOGY	2
BIO 110	PRINCIPLES OF CELLULAR AND MOLECULAR BIOLOGY	5
BIO 308	HUMAN ANATOMY AND PHYSIOLOGY I	5
BIO 309	HUMAN ANATOMY AND PHYSIOLOGY II	5
MTH 170	STATISTICS	3
BIO 492/PSY 492	BIOPSYCHOLOGY CAPSTONE	1

#### BACHELOR OF SCIENCE 43 crs.

*Complete the core requirements, plus the following:*

BIO 202	SCIENTIFIC COMMUNICATION (W)	3
BIO 211	GENETICS	4
BIO 300	BIOSTATISTICS	3
BIO 455	BIOLOGY RESEARCH METHODS (W)	2

#### RECOMMENDED ELECTIVES

BIO 480	INDEPENDENT STUDY	1-4
CHE 105	GENERAL CHEMISTRY I	4

## Psychology (PSY)

### PSY 153 3

#### INTRODUCTION TO PSYCHOLOGY

Principles and facts necessary for an introduction to the scientific understanding of human behavior on a biological and social-personal level. Provides an introduction to basic concepts necessary for specialization in the field.

### PSY 200 0-1

#### APPLIED SPORT PSYCHOLOGY

This course allows students the opportunity to apply sport psychology theories to sport or other performance-based activities (e.g., band, choir, debate, etc.). Specific topics will include assessment, goal setting, practice journals, routines, stress management, visualization, self-confidence, and persistence. This course can be repeated. No more than three credit hours may be applied to the sport psychology minor or the psychology minor or major; may also be used for up to three elective credit hours. Prerequisite: PSY 153 or instructor consent.

### PSY 201 1

#### PSYCHOLOGY CORNERSTONE

This course is an introduction to the psychology major. The class will provide an overview of APA-style writing, preparing for graduate school, diversity in psychology, subfields of psychology, career opportunities, journal article reading, and psychological research. Prerequisite: PSY 153.

### PSY 210 3

#### DEVELOPMENTAL PSYCHOLOGY

This course is an overview of human development across the lifespan from fetal development through childhood, adolescence, adulthood, and death. Topics include theories and research about physical, cognitive, and social development. Prerequisite: PSY 153.

### PSY 211 3

#### STRESS MANAGEMENT

An introduction to psychological aspects of stress – the etiology and the physiological and psychological consequences of stress. Practical and theoretical experience in a variety of stress management techniques (stress management planning, progressive relaxation, autogenic training, hypnosis, systematic desensitization, and implosive therapy). Prerequisite: PSY 153.

### PSY 230 3

#### SUBSTANCE ABUSE

This course introduces the field of substance abuse and addiction and covers causal factors, theoretical models, assessments, and treatments. Research papers, case studies, and observational methods will be incorporated. Prerequisite: PSY 153.

### PSY 250 3

#### CHILD WELFARE

This course covers the history of child welfare, defining and recognizing child maltreatment, professional responses to child maltreatment, the skills necessary to work with child victims, and child abuse prevention. The course is designed for students pursuing careers in criminal justice, education, social work, sociology, psychology, nursing, paralegal, and other areas where knowledge of child maltreatment and advocating for children might be necessary. Prerequisite: PSY 153.

### PSY 255 2

#### INTRODUCTION TO OCCUPATIONAL THERAPY

An introduction to the field of occupational therapy. This course will require observation and service-learning hours at locations working with children, the elderly, or other populations that occupational therapists assist. Prerequisite: PSY 153.

### PSY 265 3

#### PSYCHOLOGY OF GENDER

A psychological examination of the individual development of gender. Findings from psychological research on gender will be reviewed including interpersonal relations, stereotypes of men and women, physical and mental health, media portrayals, educational biases, career decisions, and individual differences in abilities and personalities. Prerequisite: PSY 153.

### PSY 275 3

#### BIOPSYCHOLOGY

This course will provide an overview of physiological psychology and includes topics such as structure and function of the central nervous system, biological foundations of behavior and personality, brain damage, sensation and perception, sex, sleep, substance abuse and addiction, psychopathology, stress, and mental health. Prerequisite: PSY 153.

### PSY 280-289 1-4

#### SPECIAL TOPICS IN PSYCHOLOGY

Prerequisite: PSY 153.

### PSY 299 0-3

#### RESEARCH PRACTICUM

This course provides students with the experience of engaging in psychology research under the supervision of a faculty member. Students will also learn about the process of presenting and/or publishing research. This course may be repeated. Up to 6 credits may count as electives in the psychology major or minor. Prerequisites: PSY 153, 3.00 overall GPA, and instructor consent.

### PSY 301 3

#### PSYCHOLOGICAL STATISTICS

This course will introduce students to descriptive and inferential statistics used in psychology. Topics will include the interpretation, analysis, and reporting of psychological data. Prerequisite: PSY 201.

### PSY 304 3

#### CROSS-CULTURAL PSYCHOLOGY

This course will provide an overview of the impact of cultural effects on human behavior by focusing on similarities and differences from a global perspective utilizing theories of personality. The purpose of this course is to enhance student sensitivity and awareness of diversity aimed at reducing ethnocentric thinking while sharpening critical thinking skills. Prerequisite: PSY 153.

## Psychology (PSY)

<b>PSY 305</b> <b>FORENSIC PSYCHOLOGY</b> This class provides an overview of forensic, criminal, and legal psychology, including such topics as interrogations, lie detection, forensic identification, profiling, jury selection, eyewitness testimony, and the death penalty. Prerequisite: PSY 153.	3	<b>PSY 370</b> <b>PSYCHOLOGY OF HUMAN SEXUALITY</b> An investigation of human sexual behavior, including but not limited to sexuality in its cultural, biological, and social contexts. Examined will be such topics as conception and contraception, physiological and anatomical factors, sexual dysfunction, and variations in sexual behavior. Prerequisite: PSY 153.	3
<b>PSY 315</b> <b>ABNORMAL PSYCHOLOGY</b> A study of the development and characteristics of mental disorders such as anxiety disorders, personality disorders, psychotic disorders, somatoform disorders, and mood disorders will be examined. Various treatment modalities will also be considered. Prerequisite: PSY 153.	3	<b>PSY 375</b> <b>PSYCHOLOGICAL ASSESSMENT</b> This course will cover the basic theories relating to the foundations of testing and measurement. The purpose of this course is to help students understand the use of testing, reliability, validity, designing tests and surveys, and gaining an understanding of the many psychological tests currently used in counseling, education, and the workplace. Prerequisite: PSY 153.	3
<b>PSY 320</b> <b>MILITARY PSYCHOLOGY</b> This class provides an overview of military psychology including such topics as fitness-for-duty evaluations, post-traumatic stress disorder, depression, neuropsychological conditions, substance abuse, and the psychology of terror. In addition, the course will explore psychology careers working with the military. Prerequisite: PSY 153.	3	<b>PSY 380-389</b> <b>SPECIAL TOPICS IN PSYCHOLOGY</b> Prerequisite: PSY 153.	1-4
<b>PSY 321</b> <b>PSYCHOLOGY AND SOCIOLOGY OF DEATH AND DYING</b> This course will provide a study of death and dying and includes topics such as fear of death, care of the dying, grief, suicide, euthanasia, acceptance of death, children and death, funeral customs, legal aspects of death, and death education. Prerequisite: PSY 153.	3	<b>PSY 396</b> <b>RESEARCH METHODS</b> This course will introduce students to research methods in psychology. Course topics will include searching and reading the research literature, designing studies, analyzing research data, and writing APA style empirical reports. Prerequisite: PSY 301.	3
<b>PSY 322</b> <b>PSYCHOLOGY AND SOCIOLOGY OF HUMAN AGING</b> This course will provide a study of human aging and includes topics such as myths and theories of aging, the psychological, sociological, and biological aspects of human aging, effects of aging on personality, intelligence, memory, sensory functioning, and mental health. Service-learning component is required. Prerequisite: PSY 153.	3	<b>PSY 398</b> <b>ETHICS IN RESEARCH AND THERAPY</b> Same as ABA 398. Prerequisite: PSY 153.	3
<b>PSY 330</b> <b>BASIC PRINCIPLES OF APPLIED BEHAVIORAL ANALYSIS</b> Same as ABA 330. Prerequisite: PSY 153.	3	<b>PSY 399</b> <b>RESEARCH PRACTICUM</b> This course provides students with the experience of engaging in psychology research under the supervision of a faculty member. Students will also learn about the process of presenting and/or publishing research. This course may be repeated. Up to 6 credits may count as electives in the psychology major or minor. Prerequisites: PSY 153, 3.00 overall GPA, and instructor consent.	0-3
<b>PSY 350</b> <b>EDUCATIONAL PSYCHOLOGY: HUMAN GROWTH AND LEARNING</b> Same as EDU 350. Prerequisite: PSY 153.	3	<b>PSY 401</b> <b>SOCIAL PSYCHOLOGY</b> An examination of social interactions, the impact of the group on the individual, and the impact of the individual on the group. Focus is on interpersonal behavior and feelings – liking, love, aggression, conformity, communications and attitude formation, and change. Same as SOC 401. Prerequisite: PSY 153.	3
<b>PSY 365</b> <b>COGNITIVE PSYCHOLOGY</b> This course will provide an introduction to the concepts and methodologies of cognitive psychology. Course topics may include the history of cognitive psychology, research methods, perception, attention, learning and memory, reasoning, problem solving, language, decision making, consciousness, and intelligence. Prerequisite: PSY 153.	3	<b>PSY 404</b> <b>EARLY ADOLESCENTS AND SCHOOLING (W)</b> Same as EDU 404. Prerequisite: PSY 153.	3

## Psychology (PSY)

<b>PSY 405</b> <b>INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY</b> This course will provide a study of the application of psychological methods and techniques to the solution of human problems industry and business and includes topics such as behavior in organizations, group behavior, organizational climates, interviewing techniques, motivation, leadership, and employment law. Prerequisite: PSY 153.	3	<b>PSY 492</b> <b>BIOPSYCHOLOGY CAPSTONE</b> This course is the capstone experience for biopsychology majors. The goals are to provide students the opportunity to learn about biopsychology topics and engage with current research in the field. An emphasis will be placed on field trips and guest speakers to allow for greater lifelong learning. Same as BIO 492. Prerequisite: PSY 275.	1
<b>PSY 417</b> <b>THEORIES OF PERSONALITY</b> A systematic review of the major personality theories, emphasizing a study of the development and dynamics of personality and its measurement, specifically as related to the individual student. Prerequisite: PSY 153.	3	<b>PSY 496</b> <b>SENIOR THESIS (W)</b> This course will guide students through a senior thesis project involving an independent research project that includes a literature review, research design, implementation of procedures, data collection, data analysis, and reporting of results. Prerequisite: PSY 301, 396.	3
<b>PSY 425</b> <b>POSITIVE PSYCHOLOGY</b> This course will provide an overview of positive psychology and includes topics such as history and philosophical foundations of positive psychology, biopsychosocial influences on wellbeing, measurement of wellbeing, and promoting personal health in students. Prerequisite: PSY 153. Recommended prerequisite: PSY 301.	3	<b>PSY 498</b> <b>PROFESSIONAL SEMINAR</b> This course is designed for psychology and biopsychology majors to prepare them for graduate school and for the professional field. Students will make professional plans for entry into graduate school or the workforce. The course will emphasize self-awareness and lifelong learning. Prerequisite: PSY 153 and junior/senior standing.	2
<b>PSY 450</b> <b>CLINICAL AND COUNSELING PSYCHOLOGY</b> Introduction to the various techniques of counseling. Course will include an overview of humanistic, psychoanalytic, behavior, and cognitive therapy approaches. Prerequisite: PSY 153.	3	<b>PSY 499</b> <b>RESEARCH PRACTICUM</b> This course provides students with the experience of engaging in psychology research under the supervision of a faculty member. Students will also learn about the process of presenting and/or publishing research. This course may be repeated. Up to 6 credits may count as electives in the psychology major or minor. Prerequisites: PSY 153, 3.00 overall GPA, and instructor consent.	0-3
<b>PSY 465</b> <b>SPORT AND HEALTH PSYCHOLOGY</b> This course will cover primary theories and applications in sport and health behaviors. Theories will be drawn from social psychology, health psychology, cognitive psychology, exercise psychology, and sport psychology. Specific topics will include personality characteristics, motivation, goal-setting, attributions, concentration, imagery, aggression, group dynamics, communication and counseling techniques, research methodologies, and behavior modification. Same as PED 465. Prerequisite: PSY 153.	3		
<b>PSY 470</b> <b>INTERNSHIP IN PSYCHOLOGY (W)</b> Prerequisite: PSY 153.	3-8		
<b>PSY 480</b> <b>INDEPENDENT STUDY IN PSYCHOLOGY</b> Prerequisite: PSY 153.	1-4		
<b>PSY 490</b> <b>SEMINAR IN PSYCHOLOGY</b> Prerequisite: PSY 153.	1-4		