**PSYCHOLOGY (PSY)**

**PSY 100 Introductory Psychology (3 credits)**
This course introduces the student to the research problems, methods, findings, and basic theory that constitute the scientific investigation of human and animal behavior.

*Restrictions:* Students cannot enroll who have a major in Psychology Five Year or Psychology.
*Attributes:* GEP Social Science, Undergraduate

**PSY 101 Intro Psychology Seminar (3 credits)**
This course introduces the student to the research problems, methods, findings, and basic theory that constitute the scientific investigation of human and animal behavior.

*Restrictions:* Enrollment is limited to students with a major, minor, or concentration in Psychology.
*Attributes:* GEP Social Science, Undergraduate

**PSY 120 Lifespan Development (3 credits)**
This course looks at the changes that take place in our lives: in our bodies, our personalities, our ways of thinking, our feelings, our behavior, our relationships, and the roles we play during different periods of our lives. In this course we seek to describe these changes through the scientific research that has observed, measured, recorded and interpreted objective data on growth and development. Additionally we will seek to explain these changes in so far as possible, attempting answers to why they have occurred and what influential roles heredity and environment play. Does not count toward Psychology major or minor. NOTE: This course does not count toward the Psychology major. This course is not open to students who have already completed PSY 231. This course is only open to students who are not and do not plan to be Psychology majors. Psychology majors should take PSY 231 instead.

*Restrictions:* Students cannot enroll who have a major in Psychology Five Year or Psychology.
*Attributes:* Undergraduate

**PSY 121 Child Development (3 credits)**
An attempt will be made to understand the development of children as it occurs in biological, psychosocial, and cultural contexts. Emphasis will be given to contemporary psychological research on children and its implications for the understanding of the everyday behavior of the child. Notes: This course is only open to students who are not and do not plan to be Psychology majors. This course is not open to students who have taken PSY 231.

*Restrictions:* Students cannot enroll who have a major in Psychology.
*Attributes:* Undergraduate

**PSY 122 Abnormal Psychology/Non-Majors (3 credits)**
How do we define what behaviors are abnormal? This course will provide an overview to the study of psychopathology, more commonly known as abnormal psychology. As an introductory course to abnormal psychology, it will focus primarily on the description of various psychological disorders, their clinical course, and the current understanding of the causes of these disorders. Notes: This course does not count towards the Psychology degree. This course is not open to students who have already completed PSY 232. This course is only open to students who are not and do not plan to be Psychology majors. Psychology majors should instead take PSY 232.

*Restrictions:* Students cannot enroll who have a major in Psychology Five Year or Psychology.
*Attributes:* Undergraduate

**PSY 123 Psychology of Men and Women (3 credits)**
Stop being part of the problem and try becoming part of the solution!! Find out what the battle between the sexes, sometimes referred to as "The Longest War," is really about. Explore the nature of the psychological experiences unique to growing up male and female in contemporary society and its effects on behavior and relationships. Current non-technical readings drawn from diverse disciplines (Biology, Sociology, History, as well as Psychology) will serve as the basis of classroom discussions. These will be supplemented by lectures summarizing the latest psychological research on gender similarities and differences. Note: This course does not count toward Psychology major.
*Attributes:* Gender Studies Course, Undergraduate

**PSY 124 Human Sexuality (3 credits)**
The human sexual experience will be examined openly and objectively from physical, social, and psychological perspectives. Issues of current concern such as pornography, homosexuality, and sexuality and the handicapped will be explored in depth. Lectures and discussions may be supplemented by audio-visual materials and guest speakers.
*Attributes:* Gender Studies Course, Undergraduate

**PSY 125 Forensic Psychology (3 credits)**
This course will provide a broad overview of the field of forensic psychology and the numerous ways that the discipline of psychology may be applied to the practice of the law. Forensic psychology focuses on the application of psychological research, methods, and expertise to issues that come before the legal system. The mental disorders that are encountered in forensic evaluations will be considered, along with the manner in which forensic psychologists assist judges and juries in determining criminal responsibility and punishment. Students will learn about the psychological underpinnings of crime; issues around competency to stand trial; issues around the insanity defense, capital murder and the death penalty; issues around child custody matters; jury selection; and interrogation procedures. Note: This course does not count toward Psychology major or minor.

**PSY 126 Psychology of Culture (3 credits)**
How does culture affect human behavior? The aim of this course is to use psychological theory and research to examine culture's effects on people cross-culturally. This course will examine how people are influenced by their culture and how people consider culture in the way they think about and treat others. This course will also focus on facets of cultures, including gender, race, ethnicity, and poverty. In addition, the course will examine how interactions among these facets influence people across cultures.
*Attributes:* Undergraduate

**PSY 127 Behavioral Economics (3 credits)**
This course will explore recent discoveries in human psychology that have transformed our understanding of economics and created the influential new field of behavioral economics. Classical economics assumed that people make rational decisions based on all available information to optimize their well-being. However, beginning in the 1970s, psychologists proved that people take mental shortcuts that lead to predictable errors, such as always expected a new war to be quickly won, or becoming swept up in speculative bubbles for houses or stocks. This class will provide examples of how social scientists are applying this new understanding of human decision making to improve outcomes in a broad array of fields, including personal finance, artificial intelligence, government regulation, emergency medicine, commercial aviation and even the selection of NFL and NBA draft picks. Note: This course does not count toward the Psychology major. It may be counted toward the Psychology minor.
PSY 128 Psychology and Architecture (3 credits)
This course explores the relationships between psychology, architecture, and urban planning. A primary focus will be how the intersection of these disciplines can influence the future of communities and the communities of the future. Students will gain an understanding of how psychological theory can inform the development of successful spaces, buildings, and cities, and thriving and sustainable communities. Current research topics and theories to be covered include environmental psychology, psychology of architecture, and urban anthropology. Note: This course does not count toward the Psychology major. It may be counted toward the Psychology minor.

PSY 150 Gender Matters (3 credits)
This course provides an overview of research and theories on the biological, psychological, and the social aspects of gender. Areas of similarities as well as differences between men and women will be discussed. Significant attention will be given to the impact gender has on the everyday lives of women and men in contemporary American society today. Does not count toward Psychology major or minor.

Attributes: Diversity Course (New GEP), First-Year Seminar, Gender Studies Course, Undergraduate

PSY 190 Intro Research Method Soc Sci (3 credits)
This introductory course in research methods prepares students to understand and apply the techniques and methods of descriptive and inferential research as they are applied to the social sciences. Topics include the scientific method, ethical issues in research, survey design, research design, and basic analysis of data. This foundational course of study will take the student through the various steps of a traditional research design.

Prerequisites: PSY 100 or PSY 101

PSY 191 Applied Stats for Social Sci (3 credits)
This course is an introduction to the basic principles of statistical analyses. Topics will include basic probability theory, types of data, and statistical reasoning. Students will learn common statistical analyses involving differences between means, correlation, and regression.

Prerequisites: PSY 100 or PSY 101

PSY 196 Psychology AP Course Credit (3 credits)

PSY 200 Personality Psychology (3 credits)
What are the forces that make us who we are, and uniquely different from all others? Is it our unique genetic make-up, our familial environment, our neighborhoods and peers, our culture? This course examines and strives to integrate human personality from several levels of analysis: trait level, biological level, motivational level, environmental level including microenvironments (family) as well as macro environments (neighborhoods, culture), and cognitive level. Important psychological questions are built into this analysis, including the nature/nurture debate, conscious/unconscious processes, and free-will/determinism.

Prerequisites: PSY 100 or PSY 101

Attributes: Undergraduate

PSY 201 Biological Bases of Behavior (3 credits)
This is an introductory-level course exploring the relationship between human behavior and the functioning of the brain. Topics to be covered include research techniques in neuroscience, the structure and function of the peripheral and central nervous systems, the structure and function of nerve cells, the chemistry of the nervous system, and drug effects in the nervous system.

Prerequisites: PSY 100 or PSY 101 or PSY 196

Attributes: Undergraduate

PSY 205 Neuroscience Foundations (3 credits)
This course will introduce students to the diverse disciplines of the neurosciences, with an emphasis on methodologies and historical research and perspectives. Students will obtain an understanding of the anatomy of the central and peripheral nervous systems, with a specific focus on electrical and chemical cellular transmission, and the pharmacology of synaptic transmission. Note: This course is an elective that can also be used to satisfy the requirements of the Behavioral Neuroscience minor.

Prerequisites: (PSY 201 or BIO 101) and (PSY 101 or PSY 100)

PSY 206 Behavioral Neuroscience (3 credits)
In this advanced course, students will explore the neural and hormonal regulation of social behavior. Topics to be covered will include: sleep and other biological rhythms, neurological and psychiatric disorders, emotion, learning and memory, behavioral endocrinology, ingestive behavior, and reproductive behavior. Note: This course is an elective that can also be used to satisfy the requirements of the Behavioral Neuroscience minor.

Prerequisites: (PSY 101 or PSY 100) and (PSY 201 or BIO 101) and (PSY 205 or BIO 412)

Restrictions: Enrollment is limited to students with a minor in Behavioral Neuroscience.

PSY 206L Behavioral Neuroscience Lab (1 credit)
In this lab, students will learn neuroscience research techniques and conduct a self-designed, semester-long research project exploring the consequences of brain lesion on behavior. Students are expected to learn aseptic surgical techniques and will conduct survival brain surgery on their research animal. Brains will be collected at the end of the semester for further analysis. Students gain valuable neuroscience experience, through this authentic laboratory course.

Prerequisites: PSY 206 (may be taken concurrently)

PSY 207 Cognitive Neuroscience (3 credits)
This course will introduce students to the emerging interdisciplinary field of cognitive neuroscience. Students will learn methodological and investigative techniques and strategies used in research in cognitive neuroscience. Students will be also exposed to current research in psychophysiology and neuroradiology that further understanding of behaviors such as attention, perception, learning and memory, language, reasoning, and consciousness. Note: This course is an elective that can also be used to satisfy the requirements of the Behavioral Neuroscience minor.

Prerequisites: PSY 100 or PSY 101 and PSY 361

PSY 208 Human/Animal Relations (3 credits)
Non-human animals play an integral part in lives of humans. This course will explore the important relationship between human and non-human animals. Topics to be covered include: the history of animal domestication, and the influence of animals on human culture and religion. Moreover, the ethical implications of human interactions with animals in the laboratory, in captivity, as livestock, and in the wild will be considered. Note: This course is an elective that can also be used to satisfy the requirements of the Animal Studies minor.

Prerequisites: PSY 100 or PSY 101
PSY 209 Autism: Co-Occurring Conditions (3 credits)
Autism Spectrum Disorder (ASD) is a developmental and psychiatric disorder characterized by significant difficulties with social interaction, communication, and repetitive behaviors, which is estimated to affect approximately 1 in 68 individuals. This course is designed to examine and review a range of medical, psychiatric, and other conditions which commonly co-occur with ASD. These include genetic disorders, seizure disorders, attention deficit hyperactivity disorder, anxiety disorders, depression, obsessive compulsive disorder, sleep disturbances, gastrointestinal problems, eating disorders, overweight and obesity, and lowered quality of life. We will review and discuss the nature, time-course, impact, assessment, and treatment for each co-occurring condition, as time permits. The ultimate goal of this course is to broaden understanding of the critical role that co-occurring conditions play in the lives of individuals with ASD and their families, as well as in helping us to better understand the causes and characteristics of ASD.
Prerequisites: PSY 100 or PSY 101

PSY 210 Research Methods (4 credits)
This course is an introduction to the techniques and methods of descriptive and inferential research as they are applied to psychological science. Topics include archival research, naturalistic observation, participant-observer research, clinical-case studies, correlational research, quasi-experimental designs, between- and within-subject experimental designs, and factorial-design research. Particular emphasis on ethical issues in psychological research is given.
Prerequisites: PSY 101 or PSY 100
Attributes: Undergraduate, Writing Intensive Course- GEP

PSY 211 Stats for the Social Sciences (4 credits)
This course is an introduction to the basic principles of statistical analyses, descriptive and inferential, that are used in the social sciences. Topics include measures of central tendency, variability, correlational analyses, regression, estimation, hypothesis testing, and selected parametric and non-parametric tests. Laboratory work will include the use of computer-based statistical packages to aid in analysis and interpretation of discipline-appropriate research data.
Prerequisites: PSY 100 or PSY 101
Attributes: Undergraduate

PSY 212 Multicultural Psychology (3 credits)
We live in a multicultural society that requires an appropriate understanding of cultural diversity. This course will provide students with a theoretical and practical understanding of the effects of culture on human thinking and behavior. The course considers current theories and research on culture, gender, race and ethnicity with the goal of better understanding the ways in which the multicultural context influences psychological processes. The aim of the course is to achieve a better appreciation of cultural groups and consideration of cultural issues in interpreting social experiences.
Prerequisites: PSY 100 or PSY 101
Attributes: Diversity Course (New GEP), Undergraduate

PSY 220 Sensation and Perception (3 credits)
The world around us abounds with all manner of sensory stimuli-visual, olfactory, auditory, tactile, and gustatory. This course will explore the manner in which we internalize this information and use it as knowledge about what is going on around us. Each of the senses will be considered from biological and phenomenological perspectives, and the process by which we derive meaning from sensory activity will be examined. Topics to be covered include object perception, visual attention, music and speech perception, somatosensory processing, taste preferences, and smell recognition.
Prerequisites: PSY 100 or PSY 101
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 221 Animal Learning and Memory (3 credits)
Other than that which is genetically coded, everything we know is derived from and reflects memory for information that we have learned in the past. This course introduces the student to the scientific investigation of the basic processes of learning and memory. Topics of discussion will include the traditional theories, methodologies, and empirical findings of habituation and sensitization, classical conditioning, and instrumental conditioning. In addition, mechanisms of retention, sources of forgetting, and the biological basis of learning and memory processes will be considered.
Prerequisites: PSY 100 or PSY 101
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Animal Studies, Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 222 Neuropsychology (3 credits)
Neuropsychology will introduce students to understanding human brain/behavior relationships. Emphasis will be placed on commonly used approaches in assessing and measuring human behavior and how the human brain is responsible for cognition, language, memory, spatial processing, emotion, and personality. Students will gain an understanding of principles of brain organization, individual differences, and professional and clinical issues in neuropsychology.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 223 Health Psychology (3 credits)
Health psychology is a field that incorporates many sub-disciplines of psychology with modern medicine. This course seeks to provide the student with an understanding of how social, psychological, and biological variables combine to cause illness, and how behavior and environments can be changed to promote health. One important focus of the course concerns understanding the nature of stress and the impact stress has on health.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate
PSY 224 Drugs, the Brain, & Behavior (3 credits)
How do drugs affect consciousness and behavior? This course will examine the action of many different drugs, both medicinal and illicit, from biological, behavioral, and social perspectives. The relationship between alterations in behavior produced by drug administration and the changes that the drug produces in the functioning of the nervous system will be emphasized. Topics to be covered include routes of drug administration, drug absorption, transport and elimination, mechanisms of drug action, the histories of miscellaneous drugs, and the behavioral and biological activity of alcohol, nicotine, caffeine, the opiates, the hallucinogens, the antipsychotics, amphetamines, and cocaine.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 225 Comparative Animal Behavior (3 credits)
This course examines the evolution and development of animal behavior. Students will gain an understanding of the behavioral diversity and commonalities among animal species. An emphasis will be placed on comparing the characteristics of human behavior with those of other species, with special attention given to the cognitive capabilities of non-human animals.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 226 Psychology of Emotion (3 credits)
This course will introduce students to major theories and topics of the psychology and biology of emotion. Areas explored include the role of the brain and peripheral physiology in emotion, how emotion is expressed, the role of cognition, cultural differences, social aspects of emotion, development of emotions, and the role of emotion in health and psychopathology.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 227 Cognitive Psychology (3 credits)
Cognitive psychology is the study of how the human mind processes information. Learning and organizing new information, remembering facts and events, recognizing objects, reading, using language, and problem solving are examples of cognitive tasks people perform every day. In this course you will learn about the mental processes underlying these tasks. Particular emphasis will be given to mental representations of information, computational models of mental processes, and applications of cognitive psychology.
Prerequisites: PSY 100 or PSY 101
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 230 Social Psychology (3 credits)
The discipline of social psychology can be described as the study of the “power of the situation.” Although we like to think that our behavior and our attitudes are freely chosen by us, this course illuminates how powerful outside situational forces can be in shaping both. It involves the understanding of how people influence, and are influenced by, others around them; how we form impressions of others and of ourselves; what determines our attraction to others (or lack thereof); why we help one another, and why we hurt one another. In addition to a basic understanding of these phenomena, an equally important goal is to develop critical and integrative ways of thinking about theories and research in social psychology.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 231 Developmental Psychology (3 credits)
This course examines the mechanisms that contribute to psychological growth and change throughout life. The goal of this course is to provide students with an understanding of the influence of biological, cognitive, emotional, social and cultural factors on development from infancy into adulthood. Theories of development and applications to real-world problems will provide a context for understanding how humans change during the life cycle. Lectures and discussions will interweave theory, methodology and research findings about how we develop and demonstrate our abilities to perceive, think, feel, remember, plan, and ultimately realize our potential as human beings. Note: This course is not open to students who have taken PSY 121.
Prerequisites: PSY 100 or PSY 101
Restrictions: Enrollment is limited to students with a major in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 232 Advanced Abnormal Psychology (3 credits)
This course will provide an overview to the study of psychological disorders or abnormal behavior. Our current understanding of psychological disorders from biological, behavioral, cognitive, and psychodynamic perspectives will be presented. Attention will be given to the nature, causes, and course of various psychological disorders as well as treatment for specific disorders. Note: This course is restricted to Psychology majors. Others should instead take PSY 122, Abnormal Psychology. This course is not open to students who have already completed PSY 122. This course is a prerequisite for PSY 300 (Clinical Psychology) and PSY 301 (Psychological Assessment), both of which are required for the clinical concentration.
Prerequisites: PSY 100 or PSY 101
Restrictions: Enrollment is limited to students with a major in Psychology Five Year or Psychology.
Attributes: Undergraduate
PSY 233 Adulthood and Aging (3 credits)
Continuing demographic changes occurring globally as well as nationally have accelerated research in and theorizing about heretofore-neglected periods of human development. The ‘graying’ of the human population has accelerated interest in the topic of adulthood and aging at both the theoretical and empirical levels. This course will explore the adult experience using a life-span perspective and a contextual analysis including contributions from the fields of anthropology, biology, psychology, and sociology.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 234 Psychology of the Self (3 credits)
This course has been designed to provide in-depth considerations of both classic and current issues regarding the self. As a concept, the self is consistently referred to in many fields of psychology. But what is the self and how is it represented? This course will consider the self from a social psychological perspective. Special focus will be on defining the self and identifying the influences that various aspects of the self have on our perceptions, emotions, and behavior.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 235 Psychology of Gender (3 credits)
This course will examine a wide variety of psychological issues concerning gender. Topics will include gender bias in research, theories of gender, gender typing, cultural emphases on gender differences, gender and the self-concept, and psychological phenomena unique to women's and men's experiences.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 236 Ethics in Psychology (3 credits)
Ethics and professional issues in clinical psychology will be addressed in this course. The focus will be on ethical principles as applied to psychological assessment and diagnosis, psychotherapy and clinical judgment, clinical research, and client-patient and student-teacher relationships. Case studies will be used to illustrate ethical and professional issues, as well as examples from clinical practice and modern media.
Prerequisites: PSY 100 or PSY 101 or PSY 196 and PHL 154
Restrictions: Enrollment is limited to students with a major in Psychology Five Year or Psychology.
Attributes: Ethics Intensive (New GEP), Undergraduate

PSY 237 Abnormal Child Psychology (3 credits)
This course will provide a comprehensive introduction to abnormal child psychology. Assessment, diagnosis, and treatment of children and adolescents will be discussed. Specific disorders covered will include attention-deficit/hyperactivity disorder, anxiety disorders of childhood, affective (mood) disorders, conduct disorder and other disruptive behavior disorders, learning disabilities, autism spectrum disorders, and sleep disorders.
Prerequisites: PSY 100 or PSY 101 or PSY 196
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 238 Social Development (3 credits)
Social development involves the ways that children grow and interact with others, including parents, peers, siblings and authority figures. This course will cover social development from infancy through adolescence. The course will cover the major theories of social development, as well as issues such as parenting styles, gender development, moral development, aggression and motivation.
Prerequisites: PSY 100 or PSY 101
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.

PSY 239 Psychology of Media (3 credits)
Every one of us is exposed to, and thus influenced by, some aspect of the media. This course will examine some of the major aspects of the media, including 1) media content, with emphasis upon depictions of gender, age, race, sexuality, violence, advertising, and news, 2) effects of exposure to that content, and 3) who owns and thus controls the content of what we see, hear, and play. As a laboratory course, students will also engage in the full research process, from reviewing the scholarly work of others, formulating an original research hypothesis, testing that hypothesis, and drawing logical conclusions from the data.
Prerequisites: PSY 100 or PSY 101

PSY 300 Clinical Psychology (3 credits)
This is an advanced course that provides an overview of the field of clinical psychology. Students are expected to have taken Abnormal Psychology and are familiar with the various psychological disorders covered in that course. The primary goals of the Clinical Psychology course are to familiarize students with the history of clinical psychology as a field, including the roles in which clinical psychologists serve and settings in which they work, as well as current issues and debates in the field; provide a foundation in student's understanding of the various theoretical orientations that guide how clinical psychologists approach their work; orient the student to the various types of assessments that are employed to aid in the treatment conceptualization; and help students clarify their own interests and approaches in the mental health field and mapping them to the client populations and presenting problems of interests and the appropriate graduate programs to suit their goals.
Prerequisites: PSY 100 or PSY 101 and PSY 232
Restrictions: Enrollment is limited to students with a major in Psychology Five Year or Psychology.

PSY 301 Psychological Assessment (3 credits)
This course covers the theory, construction, use, and interpretation of the wide range of available psychological, neuropsychological, and educational tests. Tests of intellectual ability, academic achievement, industrial aptitude, and personality and clinical variables will be reviewed. Specific emphasis will be placed on reliability, validity, ethics, the utility of test measures, test administration, and interpretation and communication of test results.
Prerequisites: PSY 232
Restrictions: Enrollment is limited to students with a major in Psychology Five Year or Psychology.
PSY 350 Experimental Psychology Lab (3 credits)
This course will focus on the use of research design and statistical methodology as tools for answering research questions in the social and behavioral sciences. Students will learn to apply research design and statistical methodology in the development of research questions, the gathering of data, and the analysis and reporting of results. Students will gain a more applied and complete understanding of the research process, which will allow them to critically analyze published research and/or be able to conduct independent research. This course will also prepare students for more advanced Psychology coursework. 
Prerequisites: PSY 210 and PSY 211

PSY 370 Advanced Topics: Nat Sci I (3 credits)
This course will focus on a different topic in psychology from the perspective of the natural sciences each semester that it is scheduled. 
Prerequisites: PSY 100 or PSY 101.
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology. 
Attributes: Undergraduate

PSY 371 Advanced Topics: Nat Sci II (3 credits)
This course will focus on a different topic in psychology from the perspective of the natural sciences each semester that it is scheduled. 
Prerequisites: PSY 100 or PSY 101.
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology. 
Attributes: Undergraduate

PSY 372 Advanced Topics: Soc Sci I (3 credits)
This course will focus on a different topic in psychology from the perspective of the social sciences each semester that it is scheduled. 
Prerequisites: PSY 100 or PSY 101.
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology. 
Attributes: Undergraduate

PSY 373 Advanced Topics: Soc Sci II (3 credits)
This course will focus on a different topic in psychology from the perspective of the social sciences each semester that it is scheduled. 
Prerequisites: PSY 100 or PSY 101.
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology. 
Attributes: Undergraduate

PSY 374 Independent Study I (3 credits)
The content of the Independent Study is negotiated between student and faculty mentor. The content cannot be that of an existing course in the curriculum unless that course will not be offered during the time that the student completes his or her program of study. Restricted to junior and senior Psychology majors and minors. Permission of instructor required. 
Prerequisites: PSY 210
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology. 
Attributes: Undergraduate

PSY 375 Independent Study II (3 credits)
The content of the Independent Study is negotiated between student and faculty mentor. The content cannot be that of an existing course in the curriculum unless that course will not be offered during the time that the student completes his or her program of study. Restricted to junior and senior Psychology majors and minors. Permission of instructor required. 
Prerequisites: PSY 210
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology. 
Attributes: Undergraduate

PSY 390 Internship I (3 credits)
Internship entails spending eight hours each week (for a total of 112 hours) at a site in which students' work will be supervised and evaluated. Settings include clinical, clinical research, counseling, hospital, educational research, special education, correctional, and industrial facilities. Restricted to junior and senior Psychology majors and minors. Permission of instructor required. 
Prerequisites: PSY 210
Restrictions: Enrollment limited to students with a class of Junior or Senior. Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology. 
Attributes: Undergraduate

PSY 391 Internship II (3 credits)
Internship entails spending eight hours each week (for a total of 112 hours) at a site in which students' work will be supervised and evaluated. Settings include clinical, clinical research, counseling, hospital, educational research, special education, correctional, and industrial facilities. Restricted to junior and senior Psychology majors and minors. Permission of instructor required. 
Prerequisites: PSY 210
Restrictions: Enrollment limited to students with a class of Junior or Senior. Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology. 
Attributes: Undergraduate

PSY 392 Independent Research I (3 credits)
Students are responsible for designing and conducting an original research project under the direction of a faculty mentor. Restricted to junior and senior Psychology majors and minors. Permission of instructor required. 
Prerequisites: PSY 210
Attributes: Undergraduate

PSY 393 Independent Research II (3 credits)
Students are responsible for designing and conducting an original research project under the direction of a faculty mentor. Restricted to junior and senior Psychology majors and minors. Permission of instructor required. 
Prerequisites: PSY 210
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology. 
Attributes: Undergraduate
PSY 410 Neuroscience Practicum (3 credits)
Students will use a range of techniques including pharmacology, immunohistochemistry, enzyme-linked immunosorbent assay, and behavioral tests to do applied work in the areas of neuroendocrinology, neuropharmacology and social neuroscience. Students spend 10 hours per week in the laboratory and attend class. The academic component of the experience includes readings related to the substance of the practice, discussions with the faculty supervisor, a professional presentation, and a written report appropriate to the discipline. Course grades are based on laboratory performance and academic work. Note: This course is restricted to sophomores, juniors, and seniors. 
Prerequisites: PSY 201 or BIO 101 or CHM 120

PSY 491 Research Seminar: Nat Sci I (3 credits)
This course will focus on a different topic in psychology from the perspective of the natural sciences each semester that it is scheduled. The semester's topic will be treated in depth in a seminar format. Students will become familiar with research and theory in the area under study using primary source material. Students may also become involved in research projects in the area under study.
Prerequisites: PSY 210 and PSY 211 and (PSY 221L or PSY 238L or PSY 227L or PSY 350)
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 492 Research Seminar: Nat Sci II (3 credits)

PSY 493 Research Seminar: Soc Sci I (3 credits)
This course will focus on a different topic in psychology from the perspective of the social sciences each semester that it is scheduled. The semester's topic will be treated in depth in a seminar format. Students will become familiar with research and theory in the area under study using primary source material. Students may also become involved in research projects in the area under study.
Prerequisites: PSY 200 and PSY 201 and PSY 210 and PSY 211 and (PSY 221L or PSY 227L)
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 494 Research Seminar: Soc Sci II (3 credits)
This course will focus on a different topic in psychology from the perspective of the social sciences each semester that it is scheduled. The semester's topic will be treated in depth in a seminar format. Students will become familiar with research and theory in the area under study using primary source material. Students may also become involved in research projects in the area under study.
Prerequisites: PSY 320L or PSY 321L
Restrictions: Enrollment is limited to students with a major, minor, or concentration in Psychology Five Year or Psychology.
Attributes: Undergraduate

PSY 551 Adv Research Methods & Stats I (4 credits)
This course will provide both a conceptual and practical understanding of advanced research methods and statistical methods for psychological data. Topics on research method will include: within- and between-subject experimental research, scale development, and validity/reliability. Topics on descriptive and inferential statistical procedures will include: analysis of variance (ANOVA), correlations, multiple regressions, power, and effect size. Students will learn to apply these statistical methods to the test of mediation and moderation models. Practical understanding of these techniques will be achieved through hands-on analysis of research questions using computerized statistical packages such as SPSS.

PSY 552 Adv Research Method & Stats II (4 credits)
This course will address statistical procedures appropriate for the analysis of multivariate psychological data. Topics include simple and canonical correlation, linear and multiple regression techniques, discriminant analysis, analysis of covariance, multivariate analysis of variance, and factor analysis. Practical understanding of these techniques will be achieved through hands-on analysis of research questions using large sample data bases and computerized statistical packages such as SPSS.
Prerequisites: PSY 551

PSY 591 Directed Studies I (4 credits)
Research conducted under the direction of a member of the graduate psychology program faculty leading to the development of a proposal for a Master's thesis.

PSY 592 Directed Studies II (4 credits)
Research conducted under the direction of a member of the graduate psychology program faculty leading to the development of a Master's thesis.

PSY 610 Learning and Behavior (4 credits)
Presentation of major concepts and findings from research on basic learning processes and exploration of their implications for complex behavior. Basic processes include classical and operant conditioning, stimulus control, reinforcement, and aversive control. Complex behaviors include attention, memory, and dysfunctional behavior. The physiological basis of learning will also be explored.

PSY 611 Adv Physiological Psychology (4 credits)
An examination of the biological foundations of human and animal behavior. The relationship between behavior and the anatomy and physiology of the nervous system will be emphasized, ranging from the cellular level to a consideration of whole neural systems whose activity supports behavior. Behaviors to be studied will extend from simple reflex arcs to the regulation of motivational states.

PSY 612 Adv Sensory Processes (4 credits)
The manner in which different forms of stimulus energy in the environment are internalized by the organism will be considered in detail in this course. Visual, olfactory, gustatory, auditory, and tactile systems will be examined from biological and phenomenological perspectives. Also to be considered are theoretical issues such as how meaning and knowledge are derived from sensory stimulation.

PSY 613 Psychopharmacology (4 credits)
An exploration of the mechanisms of action of psychoactive drugs. The manner in which drugs enter, distribute themselves throughout, and exit the body will be considered. The relationship between alterations in behavior produced by drug administration and the changes that the drug produces in the functioning of the nervous system will be emphasized. Topics to be covered include routes of drug administration, drug absorption, transport, and elimination, mechanisms of action, the histories of miscellaneous drugs, and the behavioral and biological activity of alcohol, nicotine, caffeine, the opiates, the hallucinogens, the antipsychotics, amphetamine, and cocaine.

PSY 614 Cognitive Science (4 credits)
This course explores topics within the fields of cognitive psychology, cognitive science, and cognitive neuroscience. The course focuses on how humans make sense of our experiences. In particular, we will learn about how the human brain extracts information from the environment and how that information gets processed, represented, stored, and retrieved. Particular attention will be paid to the following topics: perception, attention, memory, imagery, intelligence, problem solving, creativity, robotics, and artificial intelligence.
PSY 615 Health Psychology (4 credits)
The course in health psychology will provide students with a basic understanding of the involvement of psychology in the fields of medicine and health care. A general overview of psychological and physiological factors that influence disease and disorders, prevention strategies, and psychologically based interventions will be presented. In addition, topics such as stress and disease, coping with illness and pain, compliance, and positive health behavior will be discussed. The theoretical emphasis of the course will be on a biopsychosocial perspective.

PSY 616 Principles of Neuropsychology (4 credits)
Principles of Neuropsychology will introduce students to the current state of the field and to recognized and commonly used approaches in the clinical understanding of human brain-behavior relationships. Emphasis will be placed on how the neurological substrate of the human brain governs and influences cognition; biological bases of language, memory, spatial processing, and emotion; principles of brain organization, localization of function and individual differences; and professional and clinical issues.

PSY 617 Memory Organiz & Retrieval (4 credits)
This course examines a variety of issues in memory theory and research. Topics include models of memory, the effects of development and aging on memory, the relation between encoding and retrieval contexts, various sources of forgetting, amnesias, and the neurobiology of memory.

PSY 618 Comparative Psychology (4 credits)
Comparative psychology examines the evolution and development of animal behavior. In this course, students explore the similarities and differences in the behavior and mental processes among species, with special emphasis placed on comparing the characteristics of human behavior with those of other animals.

PSY 620 Hormones, Brain and Behavior (4 credits)
This course provides a survey of research on the relationship between the brain, hormones and social behavior (behavioral neuroendocrinology) in a wide range of species. Topics may include, but are not limited to, reproductive behavior, parental behavior, aggression, stress, sex-differences, learning and memory.

PSY 621 Systems Neuroscience (4 credits)
This course provides an in-depth exploration of the anatomy and physiology of the nervous system. We will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions.

PSY 622 Bio Basis of Behavioral Health (4 credits)
The aim of this study tour course is to provide a unique educational experience for students to examine the relationship between moral, philosophical, biological and environmental concerns. We will study the animals of the Galapagos Islands, how they provide examples of both traditional and rapid evolution, and consider the implications of human involvement (tourism and conservation) on their survival.

PSY 650 Gerontology (4 credits)
The purpose of this course is to provide both a general introduction to the multi-disciplinary field of gerontology and a specific focus on those aspects of aging that have been of particular interest to biologists and psychologists. Additionally, attention will be given to the effects aging changes have on the functioning and well-being of older adults.

PSY 651 Adv Psychopathology (4 credits)
This course will introduce students to the current state of knowledge in the field of psychopathology, beginning with the major theoretical approaches that contribute to our understanding of abnormal behavior. In addition, this course will integrate developmental psychopathology, social psychology, and health psychology in enhancing our understanding of the etiology and course of psychopathology. Specific emphasis will be placed on examining some of the important current research issues in psychopathology, including why major depression is more prevalent among women, the linkage between autism and childhood vaccinations, and the efficacy of community-based prevention programs.

PSY 652 Assessment and Evaluation (4 credits)
The assessment and evaluation course will introduce students to various approaches and techniques in the assessment and evaluation of healthy individuals and clinical populations. Areas to be covered will include interviewing, behavioral observation, behavioral assessment, personality assessment, aptitude testing, cognitive assessment, neuropsychological assessment, and the reliability and validity of tests and measurements. An emphasis will be placed on the administration and interpretation of questionnaires, standardized and nontraditional tests and test batteries using real-life examples.

PSY 653 Behavioral Medicine (4 credits)
The purpose of the course in behavioral medicine will be to apply theories, techniques, and principles learned in health psychology to clinical populations. Coverage will include selected medical and psychophysiological diseases and syndromes (e.g., cardiovascular, stress disorders, chronic illnesses), psychological sequelae, and specific intervention strategies.

PSY 654 Developmental Psychology (4 credits)
This course reviews major theoretical perspectives and contemporary research in the field of developmental psychology. The course will examine how development in various domains (e.g. emotional, social, and cognitive) is influenced by the contexts in which development takes place (e.g. family, school, neighborhood, socioeconomic context, culture) as well as the child’s active construal of the world. Particular attention will be paid to development from birth through adolescence.

PSY 656 Social Cognition (4 credits)
Social cognition is the study of the ways in which we process social information—both accurately and inaccurately—and how that information processing determines our perceptions of, and behavior within, a complex social world. Many times we are unaware of just what had influenced us, and this course will illuminate some of those external influences. Automatic and controlled processing of information, social schemas, mental shortcuts to decision-making, attitude formation and change, social stereotypes, the development of our self-concept, and person perception are a few of the many topics covered.

PSY 659 Adv Child Psychopathology (4 credits)
This course explores the empirical literature on the diagnosis, etiology, course, and treatment of various psychological disorders of childhood and adolescence. Students will become familiar with the DSM-IV-TR diagnostic criteria and their application to children, symptom presentation in children, and issues of differential diagnosis. We will consider how a developmental psychopathology perspective and bio psychosocial factors influence diagnosis, treatment and research of child psychopathology. Empirically supported treatments for childhood disorders will be examined. Students will become familiar with the research methodologies used to develop and evaluate treatments with the goal of becoming wise consumers of treatment research.
**PSY 660 Ethics in Psychology (4 credits)**
This course will cover ethical and legal issues related to professional conduct in the practice of psychology, including topics such as ethical reasoning, the APA Ethical Principles of Psychologists and Code of Conduct, incorporating state regulations and rules of conduct, complaint resolution procedures, confidentiality, release of information, record keeping, informed consent, and the duty to warn. The course addresses ethical issues across specialties, from clinical to experimental psychology.

**PSY 661 Cross-Cultural Psychology (4 credits)**
This course will provide students with an overview of theories and research related to cross-cultural psychology. Students will learn how culture is defined and studied. They will learn about the major differences and similarities that have been found among cultures. In addition, they will learn to read and critique psychological literature that deals with culture.

**PSY 662 The Nature of Emotion (4 credits)**
This course will introduce students to the fastest-growing area of psychology, the science of emotion. The course will focus on the fundamental aspects of emotions, such as: What are emotions? What are the different theories put forth to understand emotions? How do emotions work? How are they instantiated in the nervous system? Additional topics include the interaction between emotion and cognition, the social nature of emotion, and the developmental process that shape emotion.

**PSY 663 Psychology and Architecture (4 credits)**
This course explores the relationship between psychology and architecture, with a primary focus on how the intersection of the two disciplines can influence the future of communities and the communities of the future. The concept of timeless communities will be introduced and elements of timeless communities will be identified and investigated. The course will have a seminar format and will discuss theories and current research topics such as environmental psychology, psychology of architecture, and urban anthropology. Students will gather an understanding of how psychology can help the development of successful spaces and of thriving and sustainable communities.

**PSY 664 Psychology and the Law (4 credits)**
This course explores the relationship between psychology and the law. Psychology studies the brain and human behavior; the law regulates human behavior and evaluates the mind. In a seminar format, we will discuss theories and research regarding social, developmental, clinical, and forensic psychology as they relate to the law, the legal system and public policy. Topics may include criminal justice, death penalty jurisprudence, mass incarceration, juries, legal decision making, expert testimony, eyewitness testimony, mental capacity and competency, plea bargaining, and juveniles in the legal system.

**PSY 665 Autism Spectrum Disorder (4 credits)**
This course will present clinical diagnostic assessment, treatment, and support procedures for individuals with Autism Spectrum Disorder and their families, across the lifespan. Coverage will include diagnostic assessment of autism and associated co-occurring conditions, traditional applied behavior analytic intervention, cognitive-behavioral intervention, technology-based intervention, parent-mediated intervention, and social, societal, and environmental supports. The emphasis of the course will be, first, on establishing an understanding of the current state of clinical and educational diagnosis and support and, then, on discussing novel ideas for adding or changing diagnosis, intervention, and support procedures and approaches to pivotally improve the lives of those affected by Autism Spectrum Disorder.

**PSY 691 Master's Research I (4 credits)**
Research conducted under the direction of a member of the graduate psychology program faculty leading to the completion of a proposal for a Master's thesis.

**PSY 692 Master's Research II (4 credits)**
Research conducted under the direction of a member of the graduate psychology program faculty leading to the completion of a Master's thesis.