Psychology

Professors: Anastasio, Chapman (Emeritus), Leitner (Chair), Mindell, Schatz, Shih
Associate Professor: Anderson, Garrigan, Murray,
Assistant Professors: Becker, Conry-Murray, Skolnick

Program Overview
Psychology is the scientific study of human and animal behavior, in all of its many manifestations. The Department of Psychology of Saint Joseph’s offers students an exciting and challenging curriculum. The broad range of courses provides opportunities for understanding Psychology as a scientific, clinical, and corporate discipline. The Department’s focus is on relevant, current research and the application of that research in experimental, clinical, counseling, health care and corporate settings. The full spectrum of activities and concerns of psychologists are covered, with consideration given to ethical issues.

University students with a wide range of interests find Psychology personally appealing and professionally relevant. Students use the Psychology major as a gateway to a diverse range of employment opportunities, including the health and legal professions, human resources and management positions, education and school counseling, and other social, industrial and organizational situations. Students wishing to pursue careers in the mental health professions can take advantage of our clinical concentration of courses. For those students interested in pursuing graduate study in Psychology, the Department offers a five-year Bachelor’s/Master’s degree program that offers training in the areas of behavioral neuroscience, clinical psychology and neuropsychology, behavioral pediatrics, social psychology, cognitive psychology, and developmental psychology.

Our graduates are currently college professors, researchers, school psychologists, clinical psychologists, counselors, developmental psychologists, personnel managers, educators, learning disability specialists, social workers, physicians, attorneys, and successful businessmen and -women.

For more information about our program, please visit our web pages at http://psychology.sju.edu.

Departmental Mission
Few abilities are more central to a person’s successful and productive functioning in modern society than the sophisticated, insightful appreciation of one’s own behavior and the behavior of others. The University’s goal of developing liberally educated students in the 21st century and the Ignatian ideal of being ‘men and women for and with others’ can be advanced by encouraging students to develop sophisticated insight into behavior, both their own and that of others, in all of its diverse manifestations. The study of Psychology provides a theoretical and scientific framework that fosters the development of this sophisticated appreciation of oneself and others.

In the spirit of the Jesuit, Catholic, liberal arts tradition, the Department of Psychology of Saint Joseph’s University provides students with an understanding and appreciation of behavior and mental processes in all of its diverse manifestations, for the betterment of the human condition.

The Department promotes excellence through the teacher/scholar model and provides an atmosphere for students to be intellectually curious, socially responsible, to reason well, and to become independent learners. This academic experience will change the way they conceive of their world and themselves and will promote a lifelong commitment to social justice and learning.

The Department serves its academic discipline and the larger community through faculty scholarship and the preparation of future scholars, as well as providing students with the intellectual, interpersonal, and communication skills that promote success in a variety of career paths.

Guided by the philosophy of science as a worldview and its application to psychological processes, the Department of Psychology supports the University’s mission by:

- Excelling in teaching, scholarship, and service.
- Making a vital contribution to the general education of the University’s students.
- Modeling cura personalis through advising, mentoring, community and professional service, and assuming positions of leadership within and outside the University.
• Preparing courses that reflect the historic roots of the discipline as well as contemporary thought, and making explicit the connections between basic science and real world applications.
• Emphasizing professional ethics of psychology as a discipline.
• Conducting and disseminating high quality research, in partnership with students.
• Providing students with experientially based learning.
• Preparing students to contribute to the common good.

Learning Goals and Objectives

Goal 1: Knowledge Base in Psychology. Students will develop an understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in Psychology.

Objective 1.1: Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in Psychology as a social science.

Objective 1.2: Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in Psychology as a natural science.

Goal 2: Scientific Inquiry and Critical Thinking. Students will develop scientific reasoning and problem solving skills. They will be able to understand and apply basic research methodology in psychology, including research design, data analysis, and interpretation.

Objective 2.1: Students will be able to understand and apply basic research design strategies.

Objective 2.2: Students will be able to understand and apply basic data analysis strategies.

Objective 2.3: Students will be able to interpret scientific data.

Objective 2.4: Students will demonstrate competence in the use computers and other technologies to conduct literature reviews and statistical analyses.

Goal 3: Ethical and Social Responsibility in a Diverse World. Students will develop an understanding of ethically and socially responsible behaviors in professional and personal settings in a landscape of increasing diversity.

Objective 3.1: Students will understand and apply ethical psychological principles.

Objective 3.2: Students will be able to understand diversity, appreciate ethical behavior, and reflect other values that are the underpinnings of Psychology as a discipline.

Goal 4: Communication. Students will demonstrate competence in written and oral communication skills.

Objective 4.1: Students will demonstrate competence in written communication.

Objective 4.2: Students will demonstrate competence in oral communication.

Requirements for the Psychology Major

GEP Signature Courses (See Curricula): Six courses

GEP Variable Courses (See Curricula): Six to nine courses, including:
• Art, Music/Theatre/Film, or Literature
• Non-Native Language
• Philosophical Anthropology
• Religious Difference
• Mathematics: Any Math ‘Beauty’ course
• Natural Science: Two non-lab courses, or one science course with lab to fulfill this requirement.

GEP Overlays (See Curricula): Three courses

GEP Integrative Learning Component: Three courses

A social science course in a field other than Psychology

A Biology course [Note: This Biology course cannot be the same one used to satisfy the GEP Variable Courses requirement for a Biology course with a laboratory.]

MAT 118 (Introduction to Statistics)
Note: MAT 118 is a ‘Math Power’ course
**GEP Electives:**
Psychology majors will take between 10 and 14 free electives depending upon whether a student enters the University with AP credit.

**Major Concentration:**
Thirteen courses are required, including an experiential course. The experiential course does not have to be a course offered by the Psychology Department.

**Psychology Breadth Requirement:**
- PSY 100 or PSY 101: Introductory Psychology
- PSY 200 or PSY 231: Personality or Developmental Psychology
- PSY 201: Biological Basis of Behavior
- PSY 212: Multicultural Psychology
- PSY 220 to 229: Natural Science-Based Psych Elective
- PSY 230 to 239: Social Science-Based Psych Elective
- PSY 220 to 239: Any Psychology Elective
- Any course from among: PSY 205 - 208, 220 - 239, 250, and 390 - 392

**Psychology Research Sequence:**
- PSY 210: Research Methods
- PSY 211: Statistics for the Social Sciences (Prerequisite: MAT 118)
- Psychology Lecture w/ Lab
- PSY 491 - 494: Research Seminar

The 4 permissible sequences for Psychology Lab and Research Seminar are:
- PSY 227 Cognitive Psychology w/ PSY 320L Lab or PSY 493 or PSY 494
- PSY 221 Animal Learning and Behavior Lab w/ PSY 321L Lab or PSY 493 or PSY 494
- PSY 230 Social Psychology w/ PSY 330L Lab or PSY 491 or PSY 492
- PSY 231 Developmental Psychology w/ PSY 331L Lab or PSY 491 or PSY 492

**Experiential Requirement:**
Psychology majors must satisfy an experiential course requirement. This requirement can be satisfied in a number of ways, and with either a Psychology course or a course offered by another academic department. Students must complete one of the following:
- PSY 390/391: Internship
- PSY 374/375: Independent Study
- PSY 392/393: Independent Research
- (Any course): Service Learning
- (Any program/any course): Study Abroad/Tour
- PSY 591 (Only for students in the 5 year combined BS/MS program)

**Independent Study (PSY 374/375):**
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.

**Independent Research (PSY 392/393):**
Students are responsible for designing and conducting an original research project under the direction of a faculty mentor.

**Internship (PSY 390/391):**
Internship entails spending eight hours each week in a supervised field experience. Settings include clinical, clinical research, counseling, hospital, educational research, special education, correctional, and industrial facilities. Site locations of recent internships have included the following:
- Fox Chase Cancer Center
- Children's Hospital of Pennsylvania
- Women Organized Against Rape
- Beck Institute for Cognitive Behavior Therapy
- Center for the Treatment of Anxiety
- Center for the Treatment of Anxiety
- Delaware County DA Office
- Comcast-Spectator
- Comcast-Spectator
- Inglis House
- HERS Foundation
- Overbrook School for the Blind

*Dr. Phyllis Anastasio (Post Hall 221, panastas@sju.edu) oversees the internship course for the Psychology Department.*

**Service-Learning**
Service Learning courses combine traditional academic coursework with community-based service experience, consistent with the Jesuit tradition and mission of SJU. Students spend three hours per week in service at specified sites relevant to coursework. Over 15 departments/programs offer periodic service-learning courses, including
psychology. These courses are highlighted in the course schedules prepared by the Registrar.

**Study Tours**
Study Tours are designed to provide students with a brief immersion experience relevant to coursework. These courses are highlighted in course schedules.

**Study Abroad**
Study Abroad opportunities are made available through the Center for International Programs. Currently, SJU students have opportunities to study at 24 locations in 13 countries. For more information, see http://www.sju.edu/cip/studyabroad or contact the study abroad office at cip@sju.edu, or ext. 1835.

**Free Electives**
Psychology majors have seven to ten free electives (depending upon how Foreign Language, Social Sciences, and Experiential requirements are met). There are no restrictions on these elective courses other than ordinary prerequisites. Students may elect to take additional Psychology courses, or may use these electives to fulfill the requirements of a minor in another related discipline.

**Clinical Psychology Concentration**
The Department of Psychology offers a clinical concentration of courses in support of those Saint Joseph’s Psychology majors who are interested in pursuing careers in clinical psychology, counseling psychology, and related mental health fields. Psychology majors are eligible to take an additional sequencing of courses to gain greater understanding of the field of clinical psychology. The goals of the clinical concentration are:

- To ensure that students take additional courses required by graduate programs in clinical psychology (e.g., Developmental Psychology and Abnormal Psychology).
- To help students better understand the field of clinical psychology and to make informed choices on fit with various types of graduate programs (e.g., social work vs. clinical psychology vs. health psychology) and the type of theoretical orientation the various types of programs provide (e.g., psychodynamic, cognitive-behavioral, socio-cultural).

- To encourage students to gain some exposure to the clinical psychology profession (e.g., to the tasks clinicians perform and/or to special populations with whom they work).

Completion of all 6 courses listed below is required to earn the designation of ‘Clinical Concentration’ on a student’s transcript. Courses marked with * can also count towards the Psychology major requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PSY 200*</td>
<td>Personality Psychology</td>
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<tr>
<td>PSY 231*</td>
<td>Developmental Psychology</td>
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<tr>
<td>PSY 232</td>
<td>Abnormal Psychology (prerequisite for PSY300 and PSY301)</td>
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<tr>
<td>PSY 300</td>
<td>Clinical Psychology</td>
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<tr>
<td>PSY 301</td>
<td>Psychological Assessment</td>
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<td>PSY 390*</td>
<td>Internship</td>
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**The Five-Year Combined B.S./M.S. in Psychology Option**
Saint Joseph’s University combined B.S./M.S. program in Psychology offers students a general curriculum of study emphasizing experimental psychology. The program, which is designed to complement the strengths and interests of the present Psychology faculty, also reflects the current state of the discipline of psychology. The program offers a traditional and academically oriented forty-eight credit curriculum and requires a qualifying comprehensive examination and an empirical thesis project. This unique program is designed for successful completion over five academic years.

Undergraduate psychology majors at Saint Joseph’s apply for the five-year combined B.S./M.S. program following the completion of the first semester of the junior year. All applicants will be asked to submit:

- A completed Saint Joseph’s University graduate application.
- Official sealed transcript(s) of undergraduate/graduate coursework. If you are an SJU graduate the Office of Graduate Operations will obtain your SJU transcripts for you.
- A current résumé or curriculum vitae.
- Two letters of recommendation from at least two faculty appraising the candidate’s promise and capacity for graduate study, reflecting, from a professional’s point of view, the candidate’s ability to pursue a rigorous, independent course of study at the graduate level.
The Psychology graduate application insert.

All application materials are due by March 1st. Acceptance into the five-year program will not affect the GEP requirements. For more information, contact the Graduate Arts and Sciences Office or the Department of Psychology or Dr. Jodi Mindell, Director of Psychology’s Graduate Programs. Dr. Mindell may be reached at 610.660.1806 or at jmindell@sju.edu.

Laptop Program
All students majoring in Psychology are required to participate in the College of Arts & Sciences (CAS) Laptop Computer Program. Students majoring in Psychology must purchase an Apple laptop that meets the system specifications set by the CAS Laptop Computer Program. Each student participating in the CAS Laptop Program will be charged a Laptop Computer Technical Support Fee of $50 per semester. The Laptop Computer Support Office, located in Room 101 in the Science Center, provides technical support via walk-in, email, web, and phone to students in the CAS Laptop Computer Program. For more information on the CAS Laptop Computer Program, visit our web site at: http://www.phychology.sju.edu/laptop.php.

Minor in Psychology
Completing a Psychology minor requires six courses:
- PSY 100 Introduction to Psychology
- or
- PSY 101 Introduction to Psychology Seminar
- PSY 120 Lifespan Development
- or
- PSY 200 Personality
- PSY 201 Biological Bases of Behavior

Three additional psychology courses from any combination of the following:
- PSY 120-124
- PSY 210
- PSY 212
- PSY 220-229
- PSY 230-239

Psychology minors are strongly advised to take the first three courses first, BEFORE taking the three additional 200-level psychology electives.

The academic advisor for minors is the departmental Advising Coordinator, Dr. Josephine Shih (225 Post Hall, jshih@sju.edu). You can schedule an appointment to declare the psychology minor with her via www.shih.simplybook.me.

Requirements For College Honors
Faculty of the Psychology Department encourage students to participate in the Honors program. Students may take any psychology course for honors credit. A contract is negotiated between student and faculty member on what additional work is to be done for honors credit. Students who seek Departmental honors must complete two semesters of research, supervised by a Psychology faculty member, by taking any combination of Independent Study (PSY 374/375) and/or Independent Research (PSY 392/393). Requirements for departmental honors are found under Honors Program and in the brochure published annually by the Director of the Honors Program.

Requirements for Psi Chi, the International Honor Society in Psychology
Saint Joseph’s University maintains an active chapter of Psi Chi (ΨΧ), the International Honor Society in Psychology. The purpose of Psi Chi is to encourage, stimulate, and maintain excellence in scholarship, and to advance the science of Psychology. Membership in Psi Chi is open to all students who meet the following minimum qualifications:
- Registration for major or minor standing in Psychology.
- A rank in the upper 35% of their graduating class in general scholarship.
- Completion of the following courses:
  - Introductory Psychology (either PSY 100 or PSY 101)
  - Research Methods (PSY 210)
  - Statistics for the Social Sciences (PSY 211)
- At least one other Psychology course
- A cumulative GPA not lower than 3.2 in all Psychology classes, as well as in overall cumulative grades.
- Two-thirds affirmative vote of those members present at a regular meeting of the chapter.
- High standards of personal behavior.
- Approval of the International Psi Chi office.

Psychology Course Offerings
Core Courses:
PSY 100/101 Introductory Psychology/Introductory 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. Students who declare the Psychology major as entering freshman usually take PSY 101; all other students usually take PSY 100. PSY 100 may also be taken as an elective by any students who wish to fulfill the GEP Social/Behavioral Science requirement.

**PSY 200 Personality (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.

**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. **Prerequisite:** 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. **Note:** GEP Intensive Writing. **Prerequisite:** PSY 100 or PSY 101

**PSY 211 Statistics 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, and MAT 118, or the permission of the instructor.

**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. **Note:** GEP Diversity course. **Prerequisite:** PSY 100 or PSY 101.

**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.

**Introductory Electives:**

**NOTES:** Psychology introductory elective courses (PSY 120 through PSY 152) do not have any pre- or co-requisites. With the exception of PSY 100, introductory electives (PSY 120 through PSY 150) do not count toward the Psychology major or the Psychology minor.

**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.

GEP Social/Behavioral Science

**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.

**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.

**PSY 122 Abnormal Psychology (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 is not open to students who have already completed PSY 232 – Advanced Abnormal Psychology. 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.

**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.

**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.

**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. Note: GEP First Year Seminar

**Advanced Electives:**
Note: Introductory Psychology (PSY 100) or Introductory Psychology Seminar (PSY 101) is a prerequisite for ALL 200-level Psychology advanced electives.

**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 100 or PSY 101; PSY 201 or BIO 101; and a declared Behavioral Neuroscience minor or the permission of the director of the Behavioral Neuroscience minor.

**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.

**Co-requisites:** PSY 340L. **Prerequisites:** PSY 100 or PSY 101; PSY 201 or BIO 101; and PSY 205 or BIO 412; a declared Behavioral Neuroscience minor or the permission of the director of the Behavioral Neuroscience minor.

**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; PSY 361; and a declared Behavioral Neuroscience minor or the permission of the director of the Behavioral Neuroscience minor.

**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 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. Note: This course may be taken as an elective, or combined with PSY 320L/321L to satisfy the natural science laboratory requirement of the Psychology major. PSY 320L/321L is a co-requisite for PSY 220 if both are offered during a given semester. **Prerequisites:** PSY 100 or PSY 101.

**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. Note: This course may be taken as an elective, or combined with PSY 320L/321L to satisfy the natural science laboratory requirement of the Psychology major. **Prerequisites:** PSY 100 or PSY 101.

**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.

**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.

**PSY 224 Psychopharmacology (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.

**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.

**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.

**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.

**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. **Note:** This course may be taken as an elective, or combined with PSY 330L/331L to satisfy the social science laboratory requirement of the Psychology major. PSY 330L/331L is a corequisite for PSY 230 if both are offered during a given semester. **Prerequisites:** PSY 100 or PSY 101.

**PSY 232 Abnormal Psychology for Psychology Majors (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.

**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.

**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.

**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.

**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. Note: GEP Ethics-intensive course. Prerequisites: PSY 100 or PSY 101.

**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.

**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.

**PSY 250 History and Systems of Psychology** (3 credits)
This course is designed to provide the student with an integrated view of the development of the field of psychology. Emphasis is placed upon the philosophical antecedents and the biological background of the field as it developed during the nineteenth century, the systems period of the twentieth century, and the present state of the discipline. 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.

**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 100 or PSY 101, and PSY 232.

PSY 370/371 Advanced Topics in Psychology, Natural Science I/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.

PSY372/373 Advanced Topics in Psychology, Social Science I/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.

Laboratory Courses
Note: PSY 100 or PSY 101, and PSY 200, PSY 201, PSY 210, and PSY 211, or the permission of the instructor, are prerequisites for ALL Psychology laboratory courses. Students who enroll in a Psychology laboratory course must simultaneously enroll in the lecture course listed as its co-requisite.

PSY 320L/321L Psychology Laboratory, Natural Science I/II (1 credits) This laboratory course is a co-requisite for Sensation and Perception, PSY 220, and Animal Learning and Memory, PSY 221. Prerequisites: PSY 100 or PSY 101, and PSY 200, PSY 201, PSY 210, and PSY 211. Co-requisites: PSY 220 or PSY 221.

PSY 330L/331L Psychology Laboratory, Social Science I/II (1 credits) This laboratory course is a co-requisite for Social Psychology, PSY 230, and Social Development, PSY 238. Prerequisites: PSY 100 or PSY 101, and PSY 200, PSY 201, PSY 210, and PSY 211. Co-requisites: PSY 230 or PSY 238.

PSY 340L Behavioral Neuroscience Lab (1 credits) 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. Co-requisites: PSY 206.

Psychology Experiential Courses
Note: ALL Psychology experiential courses are restricted to junior and senior psychology majors/minors. PSY 210 is a prerequisite for ALL Psychology experiential courses. The permission of the instructor is also required for ALL Psychology experiential courses.

PSY 374/375 Independent Study I/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.

PSY 390/391 Internship I/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.

PSY 392/393 Independent Research I/II (3 credits) Students are responsible for designing and conducting an original research project under the direction of a faculty mentor.

Capstone: Research Seminars
Note: Introductory Psychology (PSY 100, PSY 101, or PSY 100), PSY 200, PSY 201, PSY 210, PSY 211, and a laboratory course (PSY 320L, 321L, 330L or 331L) or the permission of the instructor are prerequisites for ALL Psychology research seminars.

PSY490/491 Research Seminar in Psychology, Natural Science I/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. 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.

**PSY493/494 Research Seminar in Psychology, Social Science I/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.