

## DEPARTMENT OF PSYCHOLOGY

**Dr. Tim Marshall, Chair**

**Forbes Hall 2022**

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### Faculty

**Professor:** Cartwright, Doolittle, S. Greenlee, Guajardo

**Associate Professor:** Antaramian, Berry, Catanzaro, Dow, Gibbons, Hart, S. Lee, T. Marshall, Velkey

**Assistant Professor:** Campolattaro, Lipatova, Rollins, Stone

**Lecturer:** Clark, Hunter, Niehaus, Pressley

**Emeriti:** Bauer, Herrmann, Lopater

### Mission Statement

The mission of the Department of Psychology is to pursue excellence in teaching, scholarship, and service. As professors, we are committed to providing students with knowledge and practice in the science of psychology, the ability to engage in disciplined and systematic inquiry, and the skills to think, act, and communicate rationally, critically, creatively, and ethically. As scholars, we are engaged in research that contributes to the field of psychology, informs our teaching and pedagogy, and mentors our students into independent and thoughtful scholars. As citizens of the Department of Psychology, we aspire to provide service and leadership to our university, civic, and professional communities. As a result of our teaching, scholarship, and service activities, we prepare students to be leaders in their communities and thoughtful citizens who will live lives of consequence and significance.

### The Program

The Department of Psychology offers both Bachelor of Arts and Bachelor of Science degrees. The Psychology Department requires each undergraduate major, through a rigorous and well-planned curriculum, to study and master the literature and methods of psychology. Curricular emphases are on fundamental conceptual knowledge, methods of psychological science, practical applications of both knowledge and skills, and theoretical considerations. The psychology curriculum requires courses at elementary, intermediate and advanced levels, including courses with laboratory components. Options such as practica, seminars, individual faculty mentored research opportunities, and team research projects are available to majors. The curriculum also offers a wide range of course offerings covering the breadth of modern psychological science.

The psychology curriculum provides excellent preparation for students who wish to pursue graduate study. Others find careers as advisors, counselors, case managers, volunteer services managers, research lab managers, mental health care workers, program managers, child care workers, social

services workers, administrative assistants, customer services representatives, human resources officers, personnel officers, job analysts, marketing researchers, public relations representatives, research analysts, staff training specialists, and a variety of other career options. The psychology curriculum also provides a strong foundation for students who wish to become elementary teachers.

### The Bachelor of Arts and Bachelor of Science degrees in Psychology

Students who wish to major in psychology must declare the major by submitting a *Declaration of Major* form to the Office of the Registrar. Majors will also be required to complete a comprehensive exit examination of psychological knowledge as part of the department's assessment procedure. Students will be assigned a faculty advisor by the Registrar's office. Students are urged to consult their assigned advisor regularly.

### Students seeking a degree in psychology must:

- successfully complete the liberal learning core;
- complete MATH 125 and a minimum of 36 credits toward the psychology major (19 specified course credits in psychology and 17 elective credits in psychology);
- present no more than one psychology course to simultaneously satisfy the psychology major and the liberal learning core requirements;
- complete a standardized comprehensive exit examination of psychological knowledge.

Electives should be chosen in consultation with an academic advisor. Students pursuing a degree in psychology should successfully complete MATH 125, PSYC 201, 202, 300, 301W, 301L and 306 as early in their programs as feasible but in no case later than the completion of the first 90 hours of the degree. Course pre-requisites must be satisfied.

The psychology major has a restricted prerequisite structure. Thus, it is recommended that students take their major courses in the following order:

- First Year: PSYC 201, 202, MATH 125.
- Second Year: PSYC 300, 306, PSYC 3XX elective.
- Third Year: PSYC 301W/301L, PSYC 3XX, PSYC 3XX or 4XX elective.
- Fourth Year: PSYC 4XX/4XXL, PSYC 4YY/4YYL, PSYC 490W.

Psychology majors must earn a grade of C- or higher in MATH 125, PSYC 201, 202, 300, 301W, 301L and 306. Before students can enroll in PSYC 300 they must earn a grade of C- or higher in PSYC 201 and MATH 125. Before majors can enroll in PSYC 301W they must earn a grade of C- or higher in the introductory courses and in PSYC 300. Students may not enroll in 400 level lab courses until they successfully complete PSYC 301W with a grade of C- or higher and students may not enroll in PSYC 490W until they successfully complete PSYC 301W and PSYC 306 with a grade of C- or higher.

### The Bachelor of Arts degree in Psychology

In addition to successful completion of the liberal learning curriculum, the bachelor of arts in psychology requires successful completion of the following courses:

1. MATH 125;
2. PSYC 201, 202;
3. PSYC 300;
4. PSYC 301W/301L;
5. PSYC 306;
6. Selection of two additional 300-level courses;
7. Selection of two additional 400-level courses with corequisite labs;
8. One PSYC 3 credit elective at the 300- or 400- level;
9. PSYC 490W.

### The Bachelor of Science degree in Psychology

In addition to successful completion of the liberal learning curriculum, the bachelor of science in psychology requires successful completion of the following courses:

1. MATH 125;
2. PSYC 201, 202;
3. PSYC 300;
4. PSYC 301W/301L;
5. PSYC 306;
6. Selection of two additional 300-level courses;
7. Selection of two additional 400-level courses with corequisite labs;
8. One PSYC 3 credit elective at the 300- or 400- level;
9. PSYC 490W.
10. One sequence from the following list to satisfy the *University Bachelor of Science Degree Requirement*. No more than three lecture courses may be taken from the same discipline, and no more than two laboratory courses may be taken from the same discipline to satisfy the *University Bachelor of Science Degree Requirement* and the *Investigating the Natural World Area of Inquiry*.

BIOL 107, 108, 109L  
 BIOL 211/211L-212/212L  
 BIOL 211/211L-213/213L  
 CHEM 103/103L - 104/104L  
 CHEM 121/121L - 122/122L  
 PHYS 151/151L - 152/152L  
 PHYS 201/201L - 202/202L

### The Minor in Psychology (18 credits)

Eighteen credit hours (minimum) constitute the minor, which must include PSYC 201 and 202. Nine of the remaining 12 credits must be at the 300- or 400-level. All prerequisites must be met for courses taken for the minor. A psychology minor is particularly appropriate for business, sociology, social work, government, public administration, pre-med, pre-law and neuroscience.

### Psychology Major Requirements for Teacher Preparation

For those students who wish to become elementary teachers, CNU has a program leading to a bachelor's degree in psychology and the M.A.T. (Master of Arts in Teaching). This program also includes teacher licensure. Students wishing to teach psychology at the secondary level must complete teacher preparation requirements in History and Social Science. Application to the program must be made in spring of the junior year. See the *Graduate Catalog* for application instructions and requirements. Because course sequencing is critical to success, interested students should talk to an advisor about their interest in the five-year program early. For information about admission to the five-year program and program requirements, consult the *Graduate Catalog* or your department advisor.

Students will earn a **B.A. or B.S. in psychology** after the first four years and then complete an additional year of study leading to an M.A.T. degree. The courses and degree requirements for the M.A.T. are found in the graduate catalog. Students accepted into this program must complete the following track for graduation with the bachelor's degree:

### Elementary level (PK-6) Track

#### Major courses required:

See major requirements for a B.A. or B.S. in Psychology.

#### Support courses required:

- ENGL 123, 223; 310 or 430, and 316;
- COMM 201 or THEA 230;
- CPSC 110;
- MATH 109, 125;
- HIST 111, 121, 122;
- POLS 101;
- GEOG 210;
- PSYC 208, 312;
- SOCL 314/314L;
- BIOL 107 or 108; CHEM 103; PHYS 141; PHYS 105L or BIOL 109L;
- NSCI 310.

\* Support courses may change based on regulations from the Virginia Department of Education.

#### Graduate courses\* required (senior year):

Select six credits from a), b), or c):

- a) MATH 570;
- b) PSYC/TCHG 544;
- c) MLAN 511, ENGL 530.

\*See the graduate catalog for course descriptions.

## THE CURRICULUM IN PSYCHOLOGY

### **PSYC 195. Special Topics (3-3-0)**

Topics vary, determined by the special interests and needs of students and the expertise of faculty.

### **PSYC 201. Investigating the Biological Bases of Behavior and Cognition (3-3-0) AINW**

This course covers basic principles of scientific psychology, including coverage of history and systems of psychology (the historical development and progression of scientific theories in psychology), the scientific method, and research methods. Additionally, this course includes coverage of biological bases of behavior (brain and nervous system structure, function, and effects on individual behavior and mental processes), sensation and perception (anatomy and function of sensory systems such as the visual system), learning and memory, intelligence, and cognition. Each of these topics will be discussed with respect to the application of the scientific method to the study of each topic and research findings relevant to contemporary understanding of human behavior and mental processes.

### **PSYC 202. Investigating the Social Context of Behavior and Cognition (3-3-0)**

This course provides an overview of the social science side of psychology, concentrating on the history and systems of psychology, research methods, human growth and behavior, motivation, emotions, stress & health, personality, psychological disorders, therapy, social psychology, and industrial/organizational psychology. These topics are discussed in the contexts of social, cultural and psychological influences on human behavior and mental processes. Such influences may include (but are not limited to) heredity, neurological influences, and institutions such as the family, workforce, society, and culture. Students will develop a foundation for understanding psychology and will be introduced to a variety of disciplines within psychology.

### **PSYC 207. Lifespan Development (3-3-0)**

This course offers a study of human development through the lifespan, including cognitive, physical, social and emotional processes. The course will focus on similarities and differences in development from conception to death and examine influences on individual development including social, familial, cultural, and biological influences.

### **PSYC 208. Child Development (3-3-0)**

Required for students in the Teacher Preparation Program. This course will focus on the biological, cognitive, linguistic, social, and emotional factors influencing the normal growth and development of the child from conception through adolescence. The course will focus on theories and research in child development as well as everyday applications of those theories and research.

### **PSYC 295. Special Topics (3-3-0)**

Topics vary, determined by the special interests and needs of students and the expertise of faculty.

### **PSYC 299. Field Research in Psychology (credits vary 1-3)**

*Prerequisite: Psychology major, consent of instructor and Department Chair.*

This course is designed to allow the first or second year psychology student the opportunity to enrich his or her program of study by pursuing research work in psychology. Students who take this course will most often be working with a psychology professor on his or her research. The responsibilities of the student, time lines, and criteria for evaluation are agreed upon in writing by the student and supervising professor. Copies of the agreement must be filed with the department chair before the end of the drop/add period in the semester in which the field study will occur. A maximum of 6 hours of field research may be counted toward the degree.

### **PSYC 300. Statistical Applications in Social Science Research (3-3-0)**

*Prerequisite: PSYC 201 with a grade of C- or higher and completion of MATH 125 or an equivalent statistics course with a grade of C- or higher.*

Students who take this course will gain the ability to analyze a research situation so that the proper statistical procedures can be selected and applied to the data by understanding the basic theory that underlies those procedures. Students will also gain the confidence and skill to perform the necessary statistical calculations to complete those procedures, using both manual and computer techniques where appropriate. Finally, students will learn to interpret the results of the calculations in terms of the data or problem at hand.

### **PSYC 301. WI: Research Methods in Psychological Science (3-3-0)**

*Prerequisite: ENGL 223 with a C- or higher and PSYC 201, 202, 300 each with a grade of C- or higher.*

*Corequisite: PSYC 301L.*

An introduction to empirical research in psychological science. Topics covered will include the scientific method, research ethics with humans and animals, variables, sampling issues, reliability and validity, research methods and designs, and finding and evaluating psychological research literature. Students will use American Psychological Association format for writing empirical research reports. Laboratory activities in selected areas will be conducted. This course partially satisfies the writing intensive requirement.

### **PSYC 301L. Research Methods in Psychological Science Laboratory (1-0-3)**

*Corequisite: PSYC 301W.*

Lab fees apply each term.

**PSYC 303. Industrial and Organizational Psychology (3-3-0)**

*Prerequisite:* MATH 125 and PSYC 201 or 202.

An overview of the field of industrial/organizational psychology based on the application of psychological research and theory to understanding and predicting behavior in organizational settings. This course provides an examination of the dynamics of job motivation, organizational leadership, decision-making, group functioning, power relationships, personnel selection, training, performance measurement and appraisal, and other related topics.

**PSYC 304. Social Psychology (3-3-0)**

[same as SOCL 306]

*Prerequisite:* PSYC 201, 202.

An examination of the nature and causes of individual behavior in social situations. The focus of the course is on social thinking and beliefs, attitudes and behavior, social influence processes, and both positive and negative social interactions.

**PSYC 305. Psychology of Learning (3-3-0)**

*Prerequisite:* PSYC 201, 202 or NEUR 201.

A study of the principles and theories of human and animal learning, with consideration also given to methods of investigation and recent theories of various learning phenomena.

**PSYC 306. History and Systems of Psychology (3-3-0)**

*Prerequisite:* PSYC 201, 202. To be completed by the end of the junior year.

This course will present the philosophical, medical, physiological and anthropological antecedents of psychological science. Additionally, the pertinence of scientific inquiry to psychology will be given special emphasis. The history and distinguishing characteristics of the major systems in psychology or "schools of thought" will be presented. Varieties of contemporary psychological theory will be discussed in terms of the individuals who have been instrumental in developing them; newer aspects of these theories will be presented in light of their historical development.

**PSYC 309. Adolescent Development (3-3-0)**

*Prerequisite:* PSYC 201 or 202, and sophomore standing.

This course will focus on the biological, cognitive, social, and emotional factors influencing the normal growth and development of individuals in adolescence (from puberty to young adulthood). The course will focus on theories, research, and problems in the process of adolescent development as well as everyday applications of theories and research.

**PSYC 312. Educational Psychology (3-3-0)**

*Prerequisite:* PSYC 201, 202 (or 207 or 208).

Required for students in the Teacher Preparation Program. This course focuses on the application of psychological facts, principles, and methods to learning in the classroom. This includes developing skills in the evaluation of student performance as an aid to learning and teaching.

**PSYC 313. Human Relations in Organizations (3-3-0)**

*Prerequisite:* PSYC 201, 202.

An experiential approach to team effectiveness, focusing on leadership, decision-making, communication, problem solving, conflict-resolution, creativity, and other issues faced by task-oriented groups in organizations. Class attendance is mandatory.

**PSYC 314. Psychology of Personality (3-3-0)**

*Prerequisite:* PSYC 201, 202.

An examination of historical and contemporary psychological theories relating to the development, functioning, and modification of personality. A comparative approach is used focusing upon the different perspectives of psychoanalysis, behaviorism, and humanistic psychology.

**PSYC 315. Psychology of Abnormal Behavior (3-3-0)**

*Prerequisite:* PSYC 201, 202.

A survey of behavior pathology emphasizing anxiety, mood, somatoform, eating, gender and substance disorders, as well as disorders related to childhood. Diagnostic criteria, etiology and treatment of each disorder is presented. This class relies heavily on film as a tool for exploring the experience of mental illness, as well as societal attitudes toward psychological disorders and treatment.

**PSYC 316. Brain and Cognition (3-3-0)**

[Same as NEUR 316]

*Prerequisite:* PSYC 201 and 202; or NEUR 201.

This course examines behavioral and neuroscience research on human cognitive processes including perception, attention, memory, language, emotion, decision making, and executive functioning. In this course, the students will learn about the empirical methods, theoretical models, as well as classic and current research used to study various topics within the field. In addition, it is expected that students will be able to identify how these cognitive processes are applicable to the situations we encounter in our everyday lives.

**PSYC 320. Psychology of Gender (3-3-0)**

*Prerequisite:* PSYC 201, 202.

This course introduces students to psychological research on the experiences, behaviors, and abilities of men and women. A comparative approach is used to examine historical, contemporary, and cultural differences in men and women. Topics include gender differences and similarities in mental abilities, personality, social behavior, mental health issues, and experiences of men and women in the workplace.

**PSYC 327. Theories and Principles of Child Development (3-3-0)**

*Prerequisite:* PSYC 201, 202.

This course is designed to provide students with a foundation in the theories and principles of the science of developmental psychology. The course emphasizes developmental changes, the influence of contexts on development, theories that help

us explain development, and theoretical applications. In particular, the course focuses on ways in which biological and environmental factors interact to produce individuals' outcomes.

**PSYC 333. Personnel Psychology (3-3-0)**

*Prerequisite: PSYC 201, 202, MATH 125 or BUSN 331.*

Presents the application of psychological research, theory, and methods to developing, implementing, and assessing personnel techniques and human resource functions such as job analysis, selection procedures, and performance appraisal.

**PSYC 340. Adult Development and Aging (3-3-0)**

*Prerequisite: PSYC 201 or 202, and sophomore standing.*

This course will focus on the biological, cognitive, social, and emotional factors influencing the normal growth and development of individuals in adulthood (from young adulthood to the end of the life cycle). The course will focus on theories, research, and problems in the process of adult development and aging as well as everyday applications of theories and research.

**PSYC 347. Psychology Seminar Abroad (3-3-0)**

*Prerequisite: PSYC 201 or 202.*

This seminar examines the psychology of human behavior and culture through a comparative cultural perspective, and is taught on-site in a host country. Students explore the psychology of human behavior and mental processes at the individual and group level through site visits, lectures, guided tours, and on-site data collection. Student learning will be assessed through term papers, research projects, presentations, reaction papers and/or examinations, as specified in the course syllabus. Departmental application and Office of International Programs paperwork required.

**PSYC 350. Forensic Psychology (3-3-0)**

*Prerequisite: PSYC 201, 202.*

Presents an overview of how psychology research in areas such as social, clinical, developmental, I/O, and cognitive, is applied in areas of the legal system. Topics explored may include police psychology and interrogations and confessions, investigative psychology, consulting with the legal system for court cases and jury selection, eye witness issues, issues of juvenile development and delinquency, violent crime and victim impact, domestic violence, correctional psychology, civil applications, and child and elder abuse.

**PSYC 360. Evolutionary Psychology (3-3-0)**

*Prerequisite: PSYC 201, 202.*

An introduction to the ways in which an evolutionary psychologist uses natural selection as a lens for viewing human behavior and cognition. The course will focus on how natural selection works to produce adaptations, and then explore a wide range of psychological topics including mating and mate choice, disgust, consciousness, race, happiness and health.

**PSYC 395. Special Topics (3-3-0)**

*Prerequisite: As announced.*

Topics vary, determined by the special interests and needs of students and the expertise of faculty. Students who are interested in having a topics course in a certain area should make their suggestion to the Department Chair. Only one elementary topics course may be offered toward a degree in psychology.

**PSYC 404. Biopsychology (3-3-0)**

*Prerequisite: PSYC 301W/301L or NEUR 301W/301L with a grade of C- or higher and senior standing or consent of instructor for non-majors. Corequisite: PSYC 404L.*

A critical analysis of selected physiological mechanisms controlling behavior. Lecture topics include neuroanatomy/neurophysiology, sensory systems, homeostatically regulated systems, psychopharmacology and the physiological basis of memory. The laboratory provides hands-on experience with such topics as physiological instrumentation, various computer simulations, and an introduction to surgical techniques.

**PSYC 404L. Biopsychology Laboratory (1-0-3)**

*Corequisite: PSYC 404.*

Lab fees apply each term.

**PSYC 405. Psychology of Motivation and Emotion (3-3-0)**

*Prerequisite: PSYC 301W/301L with a grade of C- or higher and senior standing (PSYC 305 recommended); Corequisite: PSYC 405L.*

A study of the emerging factors in behavior, including such topics as instincts, drives, homeostatically-regulated systems, emotions, stress, anxiety. Motivation is approached theoretically from a biological framework. The laboratory includes replication of important experiments using either human or animal subjects.

**PSYC 405L. Psychology of Motivation and Emotion Laboratory (1-0-3)**

*Corequisite: PSYC 405.*

Lab fees apply each term.

**PSYC 406. Psychology of Sensation and Perception (3-3-0)**

*Prerequisite: PSYC 301W/301L or NEUR 301W/301L with a grade of C- or higher and senior standing or consent of instructor for non-majors. Corequisite: PSYC 406L.*

A study of sensory and perceptual processes presented in the framework of both theoretical and experimental issues. The laboratory includes experiments and demonstrations in several sensory/perceptual modalities.

**PSYC 406L. Psychology of Sensation and Perception Laboratory (1-0-3)**

*Corequisite: PSYC 406.*

Lab fees apply each term.

**PSYC 408. Psychopharmacology (3-3-0)**

*Prerequisite: PSYC 301W/301L or NEUR 301W/301L, each completed with a grade of C- or higher, and senior standing or consent of instructor for non-majors.*

*Corequisite: PSYC 408L.*

*Spring.*

This course examines how prescription and recreational psychotropic drugs affect behavior, the brain and mental health.

**PSYC 408L. Psychopharmacology Laboratory (1-0-3)**

*Corequisite: PSYC 408.*

*Spring.*

Lab fees apply each term.

**PSYC 409. Behavioral Medicine and Health Psychology (3-3-0)**

*Prerequisite: PSYC 301W/301L with a grade of C- or higher and senior standing, or consent of instructor for non-majors; Corequisite: PSYC 409L.*

This course offers a critical appraisal of the primary literature in behavioral medicine and health psychology. An analysis of health enhancing and health-compromising decisions. Topics include stress and coronary prone behaviors, psychoimmunology, obesity, eating disorders, exercise, smoking cessation, hypertension, diabetes, and pain management.

**PSYC 409L. Behavioral Medicine and Health Psychology Laboratory (1-0-3)**

*Corequisite: PSYC 409.*

Lab fees apply each term.

**PSYC 410. Psychological Tests and Measurements (3-3-0)**

*Prerequisite: PSYC 301W/301L with a grade of C- or higher and senior standing, or consent of instructor; Corequisite: PSYC 410L.*

This course explores the theory and practice of psychological assessment. Psychometric principles of test construction, development, validation, with attention to statistical techniques, and utilization are examined. Current psychological instruments are studied in depth. Students will learn to critically evaluate current psychological tests within a variety of contexts.

**PSYC 410L. Psychological Tests and Measurements Laboratory (1-0-3)**

*Corequisite: PSYC 410.*

Lab fees apply each term.

**PSYC 415. Comparative Psychology (3-3-0)**

*Prerequisite: PSYC 301W/301L or NEUR 301W/301L with a grade of C- or higher and senior standing, or consent of instructor; Corequisite: PSYC 415L.*

This course will focus on the fundamental methods and content of comparative psychology. Classic and contemporary principles and research will be discussed. The course will include such topics as the history of comparative

psychology as well as movement, foraging, social grouping, territoriality, mating systems and reproduction, predator and prey relationships, animal learning, and animal cognition. The laboratory will focus on the questions, techniques, methods, instruments, and activities related to course content.

**PSYC 415L. Comparative Psychology Laboratory (1-0-3)**

*Corequisite: PSYC 415.*

Lab fees apply each term.

**PSYC 420. Human Sexuality (3-3-0)**

*Prerequisite: PSYC 201, 202.*

The area of human sexuality includes subject matter from several disciplines and this course will deal with various aspects of the multidisciplinary nature of Human Sexuality. The course will explore the cultural and cross-cultural treatment of one of the most fundamental aspects of human nature, but an aspect long repressed by many conservative institutions of Western Civilization. An important goal of this course is to help the student communicate easily, accurately, and comfortably when discussing sexually related topics. Another major goal of this course is the recognition and understanding of sexual variation and dysfunction. Finally, this course will examine the importance of developmental processes in our understanding of normal sexual expression.

**PSYC 423. Organizational Psychology: The Social Psychology of Work (3-3-0)**

*Prerequisite: PSYC 201, 202, PSYC 301W, PSYC 303, or consent of instructor for non-majors.*

*Fall.*

A study of work motivation, job satisfaction, leadership, leadership within organizations, organizational development and change, and other organizational dynamics presented within the framework of theoretical and practical applications. The relationships between these variables/processes and organizational outcomes (e.g., productivity, turnover) will be examined from the perspective of the organization as a system.

**PSYC 428. Cognitive Development (3-3-0)**

*Prerequisite: PSYC 301W/301L or NEUR 301W/301L with a grade of C- or higher and senior standing or consent of instructor for non-majors; Corequisite: PSYC 428L.*

This course will focus on the development of cognitive processes from infancy to adolescence. Classic and contemporary theories and research will be discussed. The course will include such topics as attention, perception, brain development, memory, mental representation, language acquisition, conceptual development, social cognition, literacy acquisition, and numerical concepts.

**PSYC 428L. Cognitive Development Laboratory (1-0-3)**

*Corequisite: PSYC 428.*

Lab fees apply each term.

**PSYC 430. Social Development (3-3-0)**

*Prerequisite:* PSYC301W/301L with a grade of C- or higher and senior standing, or consent of instructor.

*Corequisite Courses:* PSYC430L.

This course examines the nature and pathways of human social development from conception to adulthood with emphasis on birth to adolescence and the influence on adult behavior. We will discuss classic and contemporary theories and research. We will discuss topics such as socialization, personality development, temperament, emotional development, the establishment and maintenance of parent/child relationships, social cognition, sex-role development and the ties to adult sexual relationships, prosocial and antisocial development, moral development, early social language, the nature of parenting, sibling interactions, peer relationships, television, computers and schooling. This course is designed to benefit those with an interest in working with children.

**PSYC 430L. Social Development Laboratory (1-0-3)**

*Corequisite Courses:* PSYC430.

Lab fees apply each term.

**PSYC 431. Psychology of Architecture and Industrial Design (3-3-0)**

*Prerequisite:* PSYC 301W/301L with a grade of C- or higher and senior standing, or consent of instructor; *Corequisite:* PSYC 431L.

This course investigates psychological principles important to environmental, architectural, and product design issues. An overview will be provided on how the science of psychology informs our understanding of how people use structures and products in their lives. The course examines the historical and creative influence of noted architects and designers, concentrating on how they dealt with human-environment issues, such as: crowding, privacy, efficiency, and socialization. The laboratory provides an opportunity for students to identify, analyze, and solve design problems using a studio and fieldwork approach. The course culminates with the preparation and delivery of a major presentation and term paper illustrating a creative solution to a design problem.

**PSYC 431L. Psychology of Architecture and Industrial Design Studio-Lab and Fieldwork (1-0-3)**

*Corequisite:* PSYC 431.

Lab fees apply each term.

**PSYC 444. The Psychology of Creative and Critical Thinking (3-3-0)**

*Prerequisite:* PSYC301W/301L with a grade of C- or higher and senior standing; *Corequisite:* PSYC 444L.

This course explores a psychological approach to creative (e.g., original ideation, problem solving, and innovativeness) and critical (e.g., evaluation, analysis, and Socratic reasoning) thinking. Students will be given the opportunity to customize learning based on their own unique interests and career goals through reading, discussions, collaborations, projects, and presentations.

**PSYC 444L. The Psychology of Creative and Critical Thinking Laboratory (1-0-3)**

*Prerequisite:* PSYC 301W/L with a grade of C- or higher and senior standing; *Corequisite:* PSYC 444.

Lab fees apply each term.

**PSYC 451. Advanced Statistics and Multivariate Analysis (3-3-0)**

*Prerequisite:* PSYC301W/301L with a grade of C- or higher and senior standing, or POLS 352 or SOCL 340 or consent of instructor; *Corequisite:* PSYC 451L.

This course will introduce multivariate analyses covering repeated measures, Analysis of Covariance, MANOVA, Multiple Regression, Factor Analysis, Discriminate Analysis, and a brief overview of Path Analysis, Log Linear designs, and Meta-Analysis. The logical properties of multivariate techniques and interpretation of research results are stressed. Multivariate statistical procedures are compared covering the various strengths and weaknesses. Finally, this course will focus on how to organize, analyze, and interpret complex data.

**PSYC 451L. Advanced Statistics and Multivariate Analysis Laboratory (1-0-3)**

*Corequisite:* PSYC 451.

Lab fees apply each term.

**PSYC 490. WI: Senior Seminar (3-3-0)**

*Prerequisite:* ENGL 223 with a C- or higher; PSYC 301W/301L and 306 each with a grade of C- or higher and senior standing.

Topical seminars cover a variety of areas. These seminars are limited to seniors only. This course partially satisfies the writing intensive requirement.

**PSYC 491. Practicum in Psychology (3-3-0)**

*Prerequisite:* Senior standing; completion of PSYC 301W/301L and 306 with a grade of C- or higher; consent of the instructor.

Requirements for the practicum are set forth in the Field Manual for Practicum Students in Psychology, which is available in the Office of the Department of Psychology. Students enrolling in this course will participate in an organization, agency or other placement appropriate to the student's educational and professional goals. Those wishing to enroll in this course must contact the instructor of the course prior to the preregistration period to receive permission to enroll. Students failing to receive prior permission by the instructor will be unable to register for the course. Students will play a major role in finding an appropriate placement. Failure to comply with the above requirements can result in no placement. A maximum of one registration can be counted toward the degree.

**PSYC 492. Directed Research in Psychology (3-3-0)**

*Prerequisite:* PSYC 301W/301L with a grade of C- or higher.

Directed study consisting of either library or empirical

research supervised by a professor from the Department of Psychology.

**PSYC 495. Special Topics (3-3-0)**

*Prerequisite: As announced.*

Topics vary, determined by the special interests and needs of students and the expertise of faculty.

**PSYC 499. Independent Study in Psychology  
(credits vary 1-3)**

*Prerequisite: Junior or senior standing, consent of instructor and Department Chair.*

This course is designed to allow the qualified student to enrich his/her program by pursuing independent work in psychology. The topic, timelines, and criteria for evaluation are agreed upon in writing by the student and supervising instructor. Copies of the study plan must be filed with appropriate University offices, attached to an Independent Study Authorization Form. This form is available through the Office of the Registrar. The necessary paperwork must be completed by the end of registration in the semester in which the study is to be completed. The research conducted may consist of bibliographic or experimental research. A maximum of six hours earned in PSYC 499 may be counted toward the degree.