The Psychology Department’s undergraduate program offers the core preparation recommended by the nation’s leading graduate schools of psychology, with advanced courses and research opportunities to fit individual needs. Programs of study may be structured around prospective careers in several fields of psychology, as well as in medicine, law, business, or education.

Program emphasis in graduate study is on doctoral training. An important feature of our doctoral program is its strong research orientation. Students are expected to spend most of their time actively engaged in research and are expected to acquire a high level of research competence. Faculty research interests and areas of specialization for graduate students include: cognitive (understanding of such basic mental activities as perceiving, attending, remembering, learning, judging, verbalizing, and imagining) and affective neuroscience (investigating the relationship between the human brain and higher forms of behavior, including sensation, perception, attention, memory, language, social cognition, emotion, emotion regulation, and health), human factors/human-computer interaction (the scientific discipline concerned with the understanding of interactions among humans and other elements of a system and the application of theories, principles, data, and other methods of design in order to optimize human well-being and overall system performance), industrial/organizational psychology (human behavior in organizational and work situations), and psychometrics and quantitative psychology (understanding specialized skills related to the substantive development; statistical modeling and analysis; and resulting interpretation of psychological measures, experiments, and interventions).
Psychology (PSYC)

PSYC 101 - INTRODUCTION TO PSYCHOLOGY
Short Title: INTRODUCTION TO PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: Survey of topics, problems, and approaches in contemporary psychology. Includes the biological basis of behavior, sensation, perception, attention, learning and memory, thinking, language, abnormal behavior and therapies, personality, and individual differences. Required for psychology majors.

PSYC 102 - READINGS IN INTRODUCTORY PSYCHOLOGY
Short Title: READINGS IN INTRO PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Distribution Group: Distribution Group II
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Corequisite: PSYC 101
Description: This is an accompaniment to PSYC 101 and provides the opportunity for students to delve deeper into various topics through reading and discussion of research. This course will expand on the topics discussed in PSYC 101 and help students to develop the skills necessary for reading, evaluating, and discussing psychological research.

PSYC 202 - INTRODUCTION TO SOCIAL PSYCHOLOGY
Short Title: INTRO TO SOCIAL PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Prerequisite(s): PSYC 101
Description: Overview of topics in social psychology. Includes conformity and social influence, attitude formation and change, aggression, altruism, relationships, liking and loving, and prejudice and stereotyping, as well as applications to other disciplines (e.g. law, marketing, the workplace, etc.). Required for psychology majors.

For Rice University degree-granting programs:
To view the list of official course offerings, please see Rice’s Course Catalog (https://courses.rice.edu/admweb/ISWKSCAT.cat?p_action=cata)
To view the most recent semester’s course schedule, please see Rice’s Course Schedule (https://courses.rice.edu/admweb/ISWKSCAT.cat)
PSYC 203 - INTRODUCTION TO COGNITIVE PSYCHOLOGY
Short Title: INTRO TO COGNITIVE PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: An introduction to topics in cognitive psychology, including perception, attention, language, memory, and decision making. Required for psychology majors.

PSYC 231 - INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
Short Title: INDUS & ORGANIZATIONAL PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Prerequisite(s): PSYC 101
Description: An overview of the principles, techniques, and theories of psychology applied in the industrial setting.

PSYC 260 - UNDERGRADUATE PROFESSIONAL ISSUES IN PSYCHOLOGY
Short Title: UNDERGRAD PROF ISSUES IN PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Lower-Level
Description: This seminar will provide students interested in psychology with an opportunity to explore psychology as a major and a career. Through guest lecturers, group discussions, and class projects, students will learn about diverse fields and potential career paths in psychology. Instructor Permission Required.

PSYC 308 - MEMORY
Short Title: MEMORY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203
Description: Critical review of traditional and contemporary approaches to the study of remembering and forgetting.

PSYC 309 - PSYCHOLOGY OF LANGUAGE
Short Title: PSYCHOLOGY OF LANGUAGE
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203
Description: Study of human and other animal communication. Includes the structure of human language, word meaning and semantic memory, psychological studies of syntax, bilingualism, language and thought, and language errors and disorders. Cross-list: LING 309.

PSYC 315 - INTRODUCTION TO SEMANTICS
Short Title: INTRODUCTION TO SEMANTICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203
Description: Introduction to basic approaches to the study of meaning in linguistics and related fields. Includes the cognitive representation of meaning, lexical categorization, conceptual structures, metaphor/metonymy, meaning change, pragmatic inference, and the relation of language and mind. Cross-list: LING 315. Recommended Prerequisite(s): LING 200 or ANTH 200.

PSYC 321 - DEVELOPMENTAL PSYCHOLOGY
Short Title: DEVELOPMENTAL PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 202 or PSYC 203
Description: Study of behavioral changes with age in both human and nonhuman species. Recommended Prerequisite(s): PSYC 202 and PSYC 203.
**PSYC 325 - LANGUAGE ACQUISITION**

*Short Title:* LANGUAGE ACQUISITION  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 101  
*Description:* The aim of this course is to explore language development closely through a variety of theories and research findings. Students will become familiar with different theories concerning language development, and develop an understanding of relevant issues, theoretical positions and relevant methodologies in language development using critical thinking skills. Cross-list: LING 325.

**PSYC 329 - PSYCHOLOGICAL TESTING**

*Short Title:* PSYCHOLOGICAL TESTING  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 339  
*Description:* Offers a detailed examination of psychological test development and analysis. Topics include an exploration of different forms of psychological tests (e.g. intelligence, attitudes, personality, clinical), reliability and validity of tests, and practical issues in testing such as test bias (e.g. gender differences).

**PSYC 330 - PERSONALITY THEORY AND RESEARCH**

*Short Title:* PERSONALITY THEORY & RESEARCH  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 340  
*Description:* Examination of those aspects of personality emphasized by major theorists past and present.

**PSYC 331 - PSYCHOLOGY OF GENDER**

*Short Title:* PSYCHOLOGY OF GENDER  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Description:* Overview of research and theory on gender in psychology. Cross-list: SWGS 331.

**PSYC 332 - ABNORMAL BEHAVIOR**

*Short Title:* ABNORMAL BEHAVIOR  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 202 or PSYC 203  
*Description:* Study of the diagnosis and treatment of mental disorders.

**PSYC 333 - MULTICULTURAL PSYCHOLOGY**

*Short Title:* MULTICULTURAL PSYCHOLOGY  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Seminar  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 101  
*Description:* This seminar examines psychological research and theories that address important issues in the lives of diverse individuals. Readings, discussions, and films will be used to explore the acculturation process; stereotyping, prejudice, discrimination and racism; racial/ethnic identity development; and multicultural competence. Students are required to participate in a service learning project. Recommended Prerequisite(s): PSYC 202 and PSYC 321.

**PSYC 339 - STATISTICAL METHODS-PSYCHOLOGY**

*Short Title:* STATISTICAL METHODS-PSYCHOLOGY  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture/Laboratory  
*Credit Hours:* 4  
*Restrictions:* Enrollment is limited to students with a major in Cognitive Sciences or Psychology. Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 101 or PSYC 203  
*Description:* Introduction to quantitative and computer methods applicable to the analysis of experimental and correlational data. Required for psychology majors. Psychology and Cognitive Science Majors only or Permission of Instructor(s).

**PSYC 340 - RESEARCH METHODS - PSYCHOLOGY**

*Short Title:* RESEARCH METHODS - PSYCHOLOGY  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 4  
*Restrictions:* Enrollment is limited to students with a major in Cognitive Sciences or Psychology. Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 101 and PSYC 339  
*Description:* A continuation of PSYC 339, with emphasis on individual student experiments and the writing of research reports. Required for psychology majors. Psychology and Cognitive Science Majors only or Permission of Instructor(s).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Short Title</th>
<th>Department</th>
<th>Grade Mode</th>
<th>Course Type</th>
<th>Credit Hours</th>
<th>Restrictions</th>
<th>Course Level</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 341</td>
<td>HUMAN-COMPUTER INTERACTION</td>
<td>HUMAN-COMPUTER INTERACTION</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Lecture</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 101 and PSYC 203</td>
<td>Study of the design and evaluation of interactive computing systems for human use and the major phenomena surrounding them.</td>
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<tr>
<td>PSYC 342</td>
<td>COMPUTER APPLICATIONS IN PSYCHOLOGY</td>
<td>COMPUTER APPLICATIONS IN PSYCHOLOGY</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Seminar</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 203</td>
<td>The use of computers in psychological research and in usability engineering. The emphasis will be on dynamic HTML and JavaScript. Topics will include designing and running web-based psychology experiments and the use of web-based video. Graduate/Undergraduate Equivalency: PSYC 504. Mutually Exclusive: Credit cannot be earned for PSYC 342 and PSYC 504.</td>
</tr>
<tr>
<td>PSYC 345</td>
<td>HEALTH PSYCHOLOGY</td>
<td>HEALTH PSYCHOLOGY</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Lecture</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 101 and PSYC 203</td>
<td>An introductory survey of sensation and perception, both human and animal. Covers all sensory systems but focuses on vision and audition. Includes the philosophy of perception; measurement and methods; neuroanatomy of visual and auditory systems; computational models of vision, motion, depth, and color; illusions and perceptual organization; and perceptual development. Graduate/Undergraduate Equivalency: PSYC 521.</td>
</tr>
<tr>
<td>PSYC 346</td>
<td>STRESS AND HEALTH ACROSS THE LIFESPAN</td>
<td>STRESS/HEALTH ACROSS LIFESPAN</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Lecture</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 202</td>
<td>Overview of social and affective neuroscience research, including examination of the neurobiological mechanisms supporting social cognition; inter-personal processes; emotion and motivation; and emotion regulation. These topics will be examined in both healthy and affectively-disordered populations, with links made to the fields of health psychology and clinical neuroscience.</td>
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<tr>
<td>PSYC 351</td>
<td>PSYCHOLOGY OF PERCEPTION</td>
<td>PERCEPTION</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Seminar</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 101 and PSYC 203</td>
<td>Study of motives and emotions as causes of human behavior; includes biological motives, aggression, emotions and emotional expression, and individual differences in motivation. Recommended Prerequisite(s): PSYC 203.</td>
</tr>
<tr>
<td>PSYC 353</td>
<td>PSYCHOLOGY OF EMOTION AND MOTIVATION</td>
<td>PSY OF EMOTION &amp; MOTIVATION</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Lecture</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 101 and PSYC 202</td>
<td>Study of motives and emotions as causes of human behavior; includes biological motives, aggression, emotions and emotional expression, and individual differences in motivation. Recommended Prerequisite(s): PSYC 203.</td>
</tr>
<tr>
<td>PSYC 354</td>
<td>INTRODUCTION TO SOCIAL AND AFFECTIVE NEUROSCIENCE</td>
<td>INTRO TO SOC/AFFECTIVE NEURO</td>
<td>Psychology</td>
<td>Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory</td>
<td>Lecture</td>
<td>3</td>
<td>Graduate level students may not enroll.</td>
<td>Undergraduate Upper-Level</td>
<td>PSYC 202</td>
<td>Overview of social and affective neuroscience research, including examination of the neurobiological mechanisms supporting social cognition; inter-personal processes; emotion and motivation; and emotion regulation. These topics will be examined in both healthy and affectively-disordered populations, with links made to the fields of health psychology and clinical neuroscience.</td>
</tr>
</tbody>
</table>
PSYC 362 - COGNITIVE NEUROSCIENCE: EXPLORING THE LIVING BRAIN
Short Title: COGNITIVE NEUROSCIENCE
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203
Description: Survey of theory and research on how mental processes are carried out by the human brain, with an emphasis on relating measures of brain activity to cognitive functioning, methods surveyed included electrophysiological recording techniques, functional imaging techniques and methods that involve lesioning or disrupting neural activity. Cross-list: NEUR 362.

PSYC 364 - COGNITIVE NEUROSCIENCE LAB
Short Title: COGNITIVE NEUROSCIENCE LAB
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Laboratory
Credit Hour: 1
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 362 (may be taken concurrently) or NEUR 362 (may be taken concurrently)
Description: The objective is to equip the students of PSYC/NEUR 362 the tools on how to apply cognitive neuroscience techniques to health or clinical topics and to investigate sensorimotor and cognitive measures in a human model. The prereq may be taken the same semester as this class. Instructor Permission Required. Cross-list: NEUR 364. Graduate/Undergraduate Equivalency. PSYC 564. Mutually Exclusive: Credit cannot be earned for PSYC 364 and PSYC 564.

PSYC 370 - INTRODUCTION TO HUMAN FACTORS AND ERGONOMICS
Short Title: INTRO TO HUMAN FACTORS & ERGO
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 101 and PSYC 203
Description: Application of principles of psychology and human performance to the design of modern systems.

PSYC 375 - NEUROPSYCHOLOGY OF LANGUAGE AND MEMORY
Short Title: NEUROPSYC OF LANGUAGE/MEMORY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Distribution Group: Distribution Group II
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203 and (PSYC 309 or LING 309 or LING 200 or ANTH 200) and (PSYC 362 or NEUR 362 or NEUR 380 or BIOE 380 or PSYC 380)
Description: An introduction to the neural basis of language and memory, covering patient-based and neuroimaging approaches. Topics include the neural basis of speech perception, language comprehension, language production, short-term memory, working memory, semantic and episodic memory, and domain-specific memory (e.g., verbal, spatial, and emotional memory).

PSYC 380 - FUNDAMENTAL NEUROSCIENCE SYSTEMS
Short Title: NEUROSYSTEMS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: This course will provide a broad overview of the brain’s neural systems that subserve perception, learning, and behavior. The course will be highly integrative with thematic content including functional organization of the nervous system, neural encoding and decoding, sensory systems, motor systems, and high-level concept processing. Cross-list: BIOC 380, NEUR 380. Graduate/Undergraduate Equivalency. PSYC 584. Recommended Prerequisite(s): PSYC 101. Mutually Exclusive: Credit cannot be earned for PSYC 380 and PSYC 584.

PSYC 409 - METHODS IN HUMAN-COMPUTER INTERACTION
Short Title: METHODS HUMAN-COMP INTERACTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 101 and PSYC 203
Description: Introduction to methods for developing and testing user interfaces to computer systems. The focus is on web-based applications. Graduate/Undergraduate Equivalency: PSYC 609. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 409 and PSYC 609.
**PSYC 411 - HISTORY OF PSYCHOLOGY**  
*Short Title:* HISTORY OF PSYCHOLOGY  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Seminar  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 101 and PSYC 202 and PSYC 203  
*Description:* Survey of evolution of psychological theory from the Greeks to the present. Includes development of scientific approaches to the study of human thought and behavior. Graduate/Undergraduate Equivalency: PSYC 511. Mutually Exclusive: Credit cannot be earned for PSYC 411 and PSYC 511.

**PSYC 420 - ELECTION SYSTEMS, TECHNOLOGIES, AND ADMINISTRATION**  
*Short Title:* ELECTION SYSTEMS  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Distribution Group:* Distribution Group III  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Description:* This multidisciplinary course will consider how elections are conducted to enhance participation, to accurately measure the will of the electorate, and to be sufficiently rigorous to convince all parties that the results are legitimate. This course will consider the design and evaluation of election technologies, ranging from voter registration through the polling booth and vote tabulation. This course will consider three questions: how do individual voters interact with the voting technology, how are voting technologies engineered to be accurate and secure, and how do the social aspects of voting fulfill democratic goals for elections? A central requirement for this course will be group research projects, many operating in our community, built around the November election. Cross-list: COMP 435, POLI 420.

**PSYC 430 - COMPUTATIONAL MODELING OF COGNITIVE PROCESSES**  
*Short Title:* COMP MODELING OF COG PROCESSES  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Seminar  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Description:* A survey of computational approaches to modeling cognitive processes. The emphasis will be on recent production system models, but other approaches will also be covered. The course will involve evaluation of existing models and hands-on experience in modeling. Graduate/Undergraduate Equivalency: PSYC 543. Recommended Prerequisite(s): PSYC 203 and COMP 200 (or equivalent). Mutually Exclusive: Credit cannot be earned for PSYC 430 and PSYC 543.

**PSYC 431 - ADVANCED INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY**  
*Short Title:* ADVANCED I/O PSYCHOLOGY  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Seminar  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 231  
*Description:* An emphasis on reading original published research. Topics covered include personnel selection, training, motivation, job attitudes, and groups. Instructor Permission Required. Mutually Exclusive: Credit cannot be earned for PSYC 431 and PSYC 530.

**PSYC 432 - BRAIN AND BEHAVIOR**  
*Short Title:* BRAIN AND BEHAVIOR  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Seminar  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 101 and PSYC 203 and PSYC 362  
*Description:* An in-depth examination of the neural basis of higher mental functions in humans, including perception, attention, memory, motor skill, and language. Claims and controversies in cognitive neuroscience will be discussed. Recommended Prerequisite(s): PSYC 339 and PSYC 340.

**PSYC 435 - POLLUTION AND PSYCHOLOGICAL DEVELOPMENT**  
*Short Title:* POLLUTION & PSYCHOLOGICAL DEV  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Seminar  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Description:* In this course, we will consider research on the effects of various pollutants and toxic substances on the cognitive, social, and emotional development of children. Expert guest speakers will contribute to the course as well. Recommended Prerequisite(s): PSYC 339 and PSYC 340.

**PSYC 436 - ADVANCED ORGANIZATIONAL PSYCHOLOGY**  
*Short Title:* ADVANCED ORGANIZATIONAL PSYC  
*Department:* Psychology  
*Grade Mode:* Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
*Course Type:* Lecture  
*Credit Hours:* 3  
*Restrictions:* Graduate level students may not enroll.  
*Course Level:* Undergraduate Upper-Level  
*Prerequisite(s):* PSYC 231 and PSYC 431  
*Description:* Contemporary theory and research in organizational psychology, including topics such as motivation, leadership, job satisfaction, occupational stress, social cognition in work organizations, and group processes. Graduate/Undergraduate Equivalency: PSYC 636. Mutually Exclusive: Credit cannot be earned for PSYC 436 and PSYC 636.
PSYC 438 - GROUP DYNAMICS
Short Title: GROUP DYNAMICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: This course examines current psychological theory and literature concerning intra- and inter-group phenomena within organizational contexts. This course will cover topics such as the unique methodological challenges of studying group-level phenomena; individual-, group-, and organizational-level inputs; group processes; and the assessment of group-level outcomes. Graduate/Undergraduate Equivalency: PSYC 551. Recommended Prerequisite(s): PSYC 339 and PSYC 340 and should be majoring in Psychology or Business. Mutually Exclusive: Credit cannot be earned for PSYC 438 and PSYC 551.

PSYC 439 - ADVANCED STATISTICAL METHODS FOR PSYCHOLOGY UNDERGRADUATES
Short Title: ADV STATISTICAL METHODS-PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 339
Description: This course is intended as a second course in statistics for psychology and the social sciences. It builds on PSYC 339. Advanced factorial ANOVA designs, mixed between- and within-subject designs, and multiple regression will be covered. This course is primarily for advanced psychology undergraduates contemplating enrollment in graduate school.

PSYC 440 - RESEARCH SEMINAR: INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY
Short Title: RESEARCH IN I/O PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 231
Description: An examination of selected topics in industrial/organizational psychology, focusing on published and ongoing research by contemporary scholars. Topics will vary. Instructor Permission Required.

PSYC 441 - HUMAN-COMPUTER INTERACTION
Short Title: HUMAN-COMPUTER INTERACTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203
Description: Study of the design and evaluation of interactive computing systems for human use and the major phenomena surrounding them. Graduate/Undergraduate Equivalency: PSYC 541. Mutually Exclusive: Credit cannot be earned for PSYC 441 and PSYC 541.

PSYC 445 - ADVANCED SEMINAR IN CLINICAL PSYCHOLOGY
Short Title: ADV SEM IN HEALTH PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Junior or Senior. Enrollment is limited to students with a major in Psychology. Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 202 and PSYC 339 and PSYC 340 and PSYC 332
Description: Consideration of research on psychological factors and health, with special consideration to the role of health beliefs in people's practice and nonpractice of health, illness, and sick-role behaviors. Topics will vary. Repeatable for credit with Permission of Department.

PSYC 452 - EMOTION REGULATION
Short Title: EMOTION REGULATION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: Review of contemporary psychology research on emotion regulation, including conceptual foundations, neurobiological bases, individual differences, involvement in psychopathology, and links to translational research approaches relevant to health psychology. Graduate/Undergraduate Equivalency: PSYC 552. Mutually Exclusive: Credit cannot be earned for PSYC 452 and PSYC 552.

PSYC 455 - ADVANCED SEMINAR IN CLINICAL PSYCHOLOGY
Short Title: ADV SEM IN CLINICAL PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 332
Description: Topics will vary. Repeatable for credit with Permission of Department.
PSYC 461 - REASONING, DECISION MAKING, PROBLEM SOLVING
Short Title: DECISION MAKING/PROB SOLVING
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 203 and (PSYC 339 or STAT 280 or STAT 300 or STAT 305 or STAT 310)
Description: Study of the higher mental processes. Includes problem solving, judgment, decision making, and reasoning. Graduate/Undergraduate Equivalency: PSYC 527. Mutually Exclusive: Credit cannot be earned for PSYC 461 and PSYC 360/PSYC 527.

PSYC 462 - NON-TRADITIONAL INTERFACES
Short Title: NON-TRADITIONAL INTERFACES
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: Advanced coverage of human computer interfaces that are not necessarily graphical in nature. The course covers haptic, gesture, locomotion, auditory, voice olfactory, taste interfaces. Impoverished GUIs (small screen) are investigated, as are interactive voice response systems and complex interfaces that are multi-model. Graduate/Undergraduate Equivalency: PSYC 662. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 462 and PSYC 662.

PSYC 463 - MEDICAL HUMAN FACTORS
Short Title: MEDICAL HUMAN FACTORS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: Advanced coverage of the human factors that are specific to medical systems. Topics include medical decision making and diagnosis errors, surgical human factors, medical robots, surgical simulators, and general medical equipment design. Macro-ergonomics of hospital systems, electronic medical records and computerized physician order entry systems are also covered. Graduate/Undergraduate Equivalency: PSYC 663. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 463 and PSYC 663.

PSYC 464 - USABILITY ASSESSMENT
Short Title: USABILITY ASSESSMENT
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Description: This course covers all of the aspects of specifying, planning, executing, and reporting usability assessments on products, services and systems. Formative and summative assessments are covered, as are "discount" usability methods. This course is project based, with students performing usability assessments as part of an engineering team that is developing products for deployment. Graduate/Undergraduate Equivalency: PSYC 664. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 464 and PSYC 664.

PSYC 465 - Olfactory Perception
Short Title: OLFATORY PERCEPTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Transfer Courses, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 101
Description: Overview of theories and research related to olfaction. Special topics include olfactory memory, the effect of emotion and cognition on olfaction, olfaction as a channel of communication, sensory integration, and ERP and fMRI studies on olfaction and its relationship with other sensory systems. Graduate/Undergraduate Equivalency: PSYC 565. Mutually Exclusive: Credit cannot be earned for PSYC 465 and PSYC 565.

PSYC 470 - Engineering Psychology
Short Title: ENGINEERING PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Graduate level students may not enroll.
Course Level: Undergraduate Upper-Level
Prerequisite(s): PSYC 370
Description: This is an advanced human factors course aimed at students who have taken a basic course in human factors or human-computer interaction and are looking for greater depth. Graduate/Undergraduate Equivalency: PSYC 540. Mutually Exclusive: Credit cannot be earned for PSYC 470 and PSYC 540.
PSYC 475 - STEREOTYPING AND PREJUDICE  
**Short Title:** STEREOTYPING AND PREJUDICE  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Seminar  
**Credit Hours:** 3  
**Restrictions:** Graduate level students may not enroll.  
**Course Level:** Undergraduate Upper-Level  
**Prerequisite(s):** PSYC 202  
**Description:** Consideration of modern research on stereotypes of, prejudice against, and discrimination toward racial, gender, and stigmatized groups. Recommended Prerequisite(s): PSYC 203 and 340.

PSYC 480 - ADVANCED TOPICS  
**Short Title:** ADVANCED TOPICS  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Seminar  
**Credit Hours:** 3  
**Restrictions:** Graduate level students may not enroll.  
**Course Level:** Undergraduate Upper-Level  
**Prerequisite(s):** PSYC 101 and (PSYC 202 (may be taken concurrently) or PSYC 203)  
**Description:** Topics will vary. Please see individual instructor for prerequisite requirements. Repeatable for different topics. Repeatable for Credit.

PSYC 485 - UNDERGRADUATE SUPERVISED RESEARCH  
**Short Title:** UG SUPERVISED RESEARCH  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Research  
**Credit Hours:** 1-6  
**Restrictions:** Enrollment is limited to students with a major in Cognitive Sciences or Psychology. Graduate level students may not enroll.  
**Course Level:** Undergraduate Upper-Level  
**Description:** Supervised empirical research. Research paper required. Sponsorship by faculty member required. Instructor Permission Required. Recommended Prerequisite(s): PSYC 339, PSYC 340. Repeatable for Credit.

PSYC 488 - SUPERVISED READING  
**Short Title:** SUPERVISED READING  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Independent Study  
**Credit Hours:** 1-6  
**Restrictions:** Enrollment is limited to students with a major in Cognitive Sciences or Psychology. Graduate level students may not enroll.  
**Course Level:** Undergraduate Upper-Level  
**Description:** Supervised reading of books and empirical papers on a topic of mutual interest to students and faculty. Term paper required. Sponsorship by faculty member required. Instructor Permission Required. Recommended Prerequisite(s): PSYC 339 and PSYC 340. Repeatable for Credit.

PSYC 495 - SUMMER INTERNSHIP  
**Short Title:** SUMMER INTERNSHIP  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Transfer Courses, Satisfactory/Unsatisfactory  
**Course Type:** Internship/Practicum  
**Credit Hours:** 3  
**Restrictions:** Enrollment is limited to students with a major in Psychology. Graduate level students may not enroll.  
**Course Level:** Undergraduate Upper-Level  
**Description:** Provides enrollment for various department summer internships. Instructor Permission Required. Repeatable for Credit.

PSYC 499 - HONORS THESIS  
**Short Title:** HONORS THESIS  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Independent Study  
**Credit Hours:** 1-6  
**Restrictions:** Enrollment is limited to students with a major in Psychology. Graduate level students may not enroll.  
**Course Level:** Undergraduate Upper-Level  
**Prerequisite(s):** PSYC 339 and PSYC 340  
**Description:** Sponsorship by faculty member required. Students must apply for the Honors Program. Instructor Permission Required. Repeatable for Credit.

PSYC 502 - ADVANCED PSYCHOLOGICAL STATISTICS I  
**Short Title:** ADVANCED PSYC STATISTICS I  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Lecture  
**Credit Hours:** 3  
**Restrictions:** Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.  
**Course Level:** Graduate  
**Description:** Introduction to inferential statistics, with emphasis on analysis of variance. Students who do not meet registration requirements as Graduate and Psychology Majors must receive instructor permission to register. Cross-list: STAT 509.

PSYC 503 - ADVANCED PSYCHOLOGICAL STATISTICS II  
**Short Title:** ADVANCED PSYC STATISTICS II  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Lecture  
**Credit Hours:** 3  
**Restrictions:** Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.  
**Course Level:** Graduate  
**Prerequisite(s):** PSYC 502 or STAT 509  
**Description:** A continuation of PSYC 502, focusing on multiple regression. Other multivariate techniques and distribution-free statistics are also covered. Cross-list: STAT 510.
PSYC 504 - COMPUTER APPLICATIONS IN PSYCHOLOGY
Short Title: COMPUTER APPLICATIONS IN PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: The use of computers in psychological research and in usability engineering. The emphasis will be on dynamic HTML and JavaScript. Topics will include designing and running web-based psychology experiments and the use of web-based video. Graduate/Undergraduate Equivalency: PSYC 342. Mutually Exclusive: Credit cannot be earned for PSYC 504 and PSYC 342.

PSYC 507 - RESEARCH METHODS
Short Title: RESEARCH METHODS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Graduate-level treatment of a wide range of laboratory and field research methodologies.

PSYC 511 - HISTORY AND SYSTEMS OF PSYCHOLOGY
Short Title: HISTORY & SYSTEMS OF PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Survey of the evolution of psychological theory from the Greeks to the present. Includes development of scientific approaches to the study of human thought and behavior. Graduate/Undergraduate Equivalency: PSYC 411. Mutually Exclusive: Credit cannot be earned for PSYC 511 and PSYC 411.

PSYC 520 - FOUNDATIONS OF COGNITIVE PSYCHOLOGY
Short Title: FOUNDATIONS OF COGNITIVE PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: An introduction to the basic topics in cognitive psychology, including perception, memory, psycholinguistics, concept formation, problem solving, and decision making.

PSYC 521 - PSYCHOLOGY OF PERCEPTION
Short Title: PERCEPTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: An introductory survey of sensation and perception, both human and animal. Covers all sensory systems but focuses on vision and audition. Includes the philosophy of perception; measurement and methods; neuroanatomy of visual and auditory systems; computational models of vision, motion, depth, and color; illusions and perceptual organization; and perceptual development. Graduate/Undergraduate Equivalency: PSYC 351.

PSYC 522 - INFORMATION PROCESSING AND ATTENTION
Short Title: INFO PROCESSING & ATTENTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: An exploration of topics in attention, including information overload, selective attention, response conflict, and automatic/unconscious and controlled/conscious processes. The neural mechanisms underlying these processes will also be discussed.

PSYC 524 - MEMORY
Short Title: MEMORY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Overview of issues and research in remembering and forgetting.

PSYC 525 - PSYCHOLINGUISTICS
Short Title: PSYCHOLINGUISTICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Study of the psychology of language. Includes the study of speech production, reading, syntax, meaning, bilingualism, language and thought, and language errors and disorders.
PSYC 527 - REASONING, DECISION MAKING, PROBLEM SOLVING
Short Title: DECISION MAKING/PROB SOLVING
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: The study of higher mental processes. Includes problem solving, judgment, decision making, and reasoning. Graduate/Undergraduate Equivalency: PSYC 461. Mutually Exclusive: Credit cannot be earned for PSYC 527 and PSYC 461.

PSYC 529 - COGNITIVE RESEARCH SEMINAR
Short Title: COGNITIVE RESEARCH SEM
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: A weekly student-staff seminar on various industrial/organizational psychology topics. Repeatable for Credit.

PSYC 530 - FOUNDATIONS OF I/O PSYCHOLOGY
Short Title: FOUNDATIONS OF I/O PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Graduate-level introduction to the study of human behavior in the work setting. Instructor Permission Required. Mutually Exclusive: Credit cannot be earned for PSYC 530 and PSYC 431.

PSYC 531 - HF/HCI RESEARCH SEMINAR
Short Title: HF/HCI RESEARCH SEMINAR
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Seminar
Credit Hour: 1
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: A weekly student-staff seminar on various human factors and human-computer interaction topics. Repeatable for Credit.

PSYC 532 - HEALTH RESEARCH SEMINAR
Short Title: HEALTH RESEARCH SEMINAR
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: A weekly student-staff seminar on current and recent health and emotion-related research. Department Permission Required. Repeatable for Credit.

PSYC 533 - I/O PSYCHOLOGY RESEARCH SEMINAR
Short Title: I/O PSYCHOLOGY RESEARCH SEM
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: A weekly student-staff seminar on various industrial/organizational psychology topics. Repeatable for Credit.

PSYC 540 - FOUNDATIONS OF ENGINEERING PSYCHOLOGY
Short Title: ENGINEERING PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: This is an advanced human factors course aimed at students who have taken a basic course in human factors or human-computer interaction and are looking for greater depth. Graduate/Undergraduate Equivalency: PSYC 470. Mutually Exclusive: Credit cannot be earned for PSYC 540 and PSYC 470.

PSYC 541 - HUMAN-COMPUTER INTERACTION
Short Title: HUMAN-COMPUTER INTERACTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Study of the design and evaluation of interactive computing systems for human use and the major phenomena surrounding them. Graduate/Undergraduate Equivalency: PSYC 441. Mutually Exclusive: Credit cannot be earned for PSYC 541 and PSYC 441.
PSYC 543 - COMPUTATIONAL MODELING OF COGNITIVE PROCESSES
Short Title: COMP MODELING OF COG PROCESSES
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: A survey of computational approaches to modeling cognitive processes. The emphasis will be on recent production system models, but other approaches will also be covered. The course will involve evaluation of existing models and hands-on experience in modeling. Graduate/Undergraduate Equivalency: PSYC 430. Mutually Exclusive: Credit cannot be earned for PSYC 543 and PSYC 430.

PSYC 546 - PSYCHONEUROIMMUNOLOGY
Short Title: PSYCHONEUROIMMUNOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Review of theories of social psychology with an emphasis on current empirical research. Instructor Permission Required.

PSYC 547 - FOUNDATIONS OF HEALTH PSYCHOLOGY
Short Title: FOUNDATIONS-HEALTH PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: A survey of contemporary psychology research on emotion regulation, including conceptual foundations, neurobiological bases, individual differences, involvement in psychopathology, and links to translational research approaches relevant to health psychology. Graduate/Undergraduate Equivalency: PSYC 452. Mutually Exclusive: Credit cannot be earned for PSYC 551 and PSYC 452.

PSYC 550 - FOUNDATIONS OF SOCIAL PSYCHOLOGY
Short Title: FOUNDATIONS OF SOCIAL PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Review of theories of social psychology with an emphasis on current empirical research. Instructor Permission Required.

PSYC 551 - GROUP DYNAMICS
Short Title: GROUP DYNAMICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Prerequisite(s): PSYC 530
Description: Review of contemporary psychology research on emotion regulation, including conceptual foundations, neurobiological bases, individual differences, involvement in psychopathology, and links to translational research approaches relevant to health psychology. Graduate/Undergraduate Equivalency: PSYC 452. Mutually Exclusive: Credit cannot be earned for PSYC 551 and PSYC 452.

PSYC 552 - EMOTION REGULATION
Short Title: EMOTION REGULATION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Review of contemporary psychology research on emotion regulation, including conceptual foundations, neurobiological bases, individual differences, involvement in psychopathology, and links to translational research approaches relevant to health psychology. Graduate/Undergraduate Equivalency: PSYC 452. Mutually Exclusive: Credit cannot be earned for PSYC 551 and PSYC 452.

PSYC 556 - PSYCHOLOGY PRESENTATIONS
Short Title: PSYCHOLOGY PRESENTATIONS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Internship/Practicum
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Practicum on oral psychology presentation.

PSYC 559 - TEACHING IN PSYCHOLOGY
Short Title: TEACHING IN PSYCHOLOGY
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Internship/Practicum
Credit Hours: 1
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Practicum on oral psychology presentation.

PSYC 560 - PSYCHOLOGY PRESENTATIONS
Short Title: PSYCHOLOGY PRESENTATIONS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Internship/Practicum
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Practicum on oral psychology presentation.

PSYC 561 - TEACHING IN PSYCHOLOGY
Short Title: TEACHING IN PSYCHOLOGY
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Internship/Practicum
Credit Hours: 1
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Assist in the teaching of undergraduate and occasionally graduate courses in psychology. Repeatable for Credit.
PSYC 563 - COGNITIVE PSYCHOLOGY INTERNSHIP
Short Title: COGNITIVE PSYC INTERNSHIP
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Internship/Practicum
Credit Hours: 1-9
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Supervised internship in cognitive psychology. Instructor Permission Required. Repeatable for Credit.

PSYC 564 - COGNITIVE NEUROSCIENCE LAB
Short Title: COGNITIVE NEUROSCIENCE LAB
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Laboratory
Credit Hour: 1
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: The objective is to equip the students of PSYC/NEUR 362 the tools on how to apply cognitive neuroscience techniques to health or clinical topics and to investigate sensorimotor and cognitive measures in a human model. Instructor Permission Required. Cross-list: NEUR 564. Mutually Exclusive: Credit cannot be earned for PSYC 564 and PSYC 364.

PSYC 565 - HUMAN OLFACTION
Short Title: HUMAN OLFACTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Overview of theories and research related to olfaction. Special topics include olfactory memory, the effect of emotion and cognition on olfaction, olfaction as a channel of communication, sensory integration, and ERP and fMRI studies on olfaction and its relationship with other sensory systems. Graduate/Undergraduate Equivalency: PSYC 465. Mutually Exclusive: Credit cannot be earned for PSYC 565 and PSYC 465.

PSYC 571 - FIRST-YEAR PROJECT
Short Title: FIRST-YEAR PROJECT
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Research
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Individual research project undertaken in the first year of the graduate program. Repeatable for Credit.

PSYC 572 - SECOND-YEAR PROJECT
Short Title: SECOND-YEAR PROJECT
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Research
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Individual research project undertaken during the second year of the graduate program. Repeatable for Credit.

PSYC 573 - NON-THESIS GRADUATE RESEARCH
Short Title: NON-THESIS GRADUATE RESEARCH
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Research
Credit Hours: 1-6
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Individual research not for first- or second-year project or thesis. Repeatable for Credit.

PSYC 574 - INTRODUCTION TO COGNITIVE NEUROSCIENCE
Short Title: INTRO COGNITIVE NEUROSCIENCE
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: An introductory graduate-level overview of cognitive neuroscience. The course will cover basics in history, neuroanatomy, methods of cognitive neuroscience, sensation and perception, control of action, learning and memory, emotion, language, attention, drugs and cognition, impulsivity, cognitive control, social cognition, and neurobiology of disease. This course is usually taught at the Texas Medical Center. Instructor Permission Required. Cross-list: NEUR 508.
PSYC 575 - ADVANCED COGNITIVE NEUROSCIENCE: ATTENTION AND PERCEPTION
Short Title: ATTENTION AND PERCEPTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: This is a survey course for graduate students interested in the development of sensory systems, perception, and attention. There will be original empirical and theoretical readings from the literature on the development of these functions primarily during infancy. Neurobiological underpinnings for these functions will be debated and discussed.

PSYC 576 - ADVANCED COGNITIVE NEUROSCIENCE: HIGHER MENTAL FUNCTIONS
Short Title: HIGHER MENTAL FUNCTIONS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Overview of neuropsychological and cognitive neuroscience approaches to higher mental functions including sensation and perception, attention, motor control, and neuropsychiatry. Other topics include basic neuroanatomy, experimental and clinical investigative methods, and the historical and philosophical context of contemporary neuroscience. Instructor Permission Required. Cross-list: NEUR 501.
Course URL: www.ruf.rice.edu/~neurosci

PSYC 577 - INTRODUCTION TO FUNCTIONAL NEUROANATOMY
Short Title: FUNCTIONAL NEUROANATOMY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture/Laboratory
Credit Hours: 2-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Anatomy and function of components of the nervous system with an emphasis on the central nervous system. Usually taught at the Texas Medical Center. Instructor Permission Required.

PSYC 578 - COGNITIVE NEUROPSYCHOLOGY: THEORIES AND METHODS
Short Title: COGNEURO: THEORIES AND METHODS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: This course explores different approaches in the field of Cognitive Neuropsychology. Topics include single-case studies, case series, voxel-lesion symptom mapping and computational neuropsychology. We will discuss how to do research with each of these techniques, how to draw inferences from neuropsychological data and critiques of the methodology.

PSYC 579 - EARLY SENSORY, PERCEPTUAL AND ATTENTIONAL DEVELOPMENT
Short Title: EARLY SENSORY PERCEPTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Overview of neuropsychological and neuroimaging approaches to higher mental functions, including language, memory, executive functions, reasoning, and numerical processing. Instructor Permission Required. Cross-list: NEUR 502.
Course URL: www.ruf.rice.edu/~neurosci

PSYC 580 - DEVELOPMENTAL COGNITIVE NEUROSCIENCE
Short Title: DEVELOPMENTAL COG NEUROSCIENCE
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Transfer Courses, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Seminar focusing on the neural/biological bases of both normal and abnormal human development through a survey of recent research in developmental cognitive neuroscience. Topics include perceptual, motive, cognitive, and language development as well as experimental research methods for studying the developing brain.

PSYC 581 - VISION SCIENCE
Short Title: VISION SCIENCE
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: This course explores different approaches in the field of Cognitive Neuropsychology. Topics include single-case studies, case series, voxel-lesion symptom mapping and computational neuropsychology. We will discuss how to do research with each of these techniques, how to draw inferences from neuropsychological data and critiques of the methodology.

PSYC 582 - EARLY SENSORY, PERCEPTUAL AND ATTENTIONAL DEVELOPMENT
Short Title: EARLY SENSORY PERCEPTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Advanced graduate seminar in the psychology of vision, covering the neural, psychophysical, and phenomenological approaches to visual perception.
PSYC 583 - THEORY, CONTENT, AND EXECUTION IN COGNITIVE NEUROSCIENCE
Short Title: COGNEURO THEORY CONTENT EXECUT
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 2
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: The particular combination of issues in cognitive neuroscience in any one course will vary depending on the background and needs of the students registered for that course and the nature of the important articles in journals covering these areas. Instructor Permission Required. Repeatable for Credit.

PSYC 584 - FUNDAMENTAL NEUROSCIENCE SYSTEMS
Short Title: NEUROSYSTEMS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: This course will provide a broad overview of the brain’s neural systems that subserve perception, learning, and behavior. This course will be highly integrative with thematic content including functional organization of the nervous system, neural encoding and decoding, sensory systems, motor systems, and high-level concept processing. Graduate/Undergraduate Equivalency: PSYC 380. Mutually Exclusive: Credit cannot be earned for PSYC 584 and PSYC 380.

PSYC 585 - FUNCTIONAL MAGNETIC RESONANCE IMAGING LABORATORY
Short Title: fMRI LABORATORY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Laboratory
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Laboratory course that provides comprehensive introduction to the practical aspects of planning conducting and analyzing Blood Oxygen Dependent Functional Magnetic Resonance Imaging (BOLD fMRI) data. BOLD fMRI is a methodology that allows non-invasive measurements of the neural processing underlying human perception/cognition. Course taught at Baylor College of Medicine for Advanced fMRI.

PSYC 586 - SOCIAL AND AFFECTIVE NEUROSCIENCE
Short Title: SOCIAL AND AFFECTIVE NEURO
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Review of the field of social and affective neuroscience, including conceptual foundations and methodology. Review and discussion of contemporary research on the neurobiological supporting social cognition and emotion in both healthy and affectively-disordered populations.

PSYC 590 - ADVANCED TOPICS IN NEUROSCIENCE
Short Title: ADVANCED TOPICS NEUROSCIENCE
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Topics will vary. Repeatable for Credit.

PSYC 601 - MULTIVARIATE STATISTICS
Short Title: MULTIVARIATE STATISTICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: This course provides an overview of a wide range of concepts and skills for conducting data analysis on multivariate data sets encountered in psychology. Issues involve preparing the data set, selecting and conducting the appropriate analysis, interpreting the output from statistical programs, and presenting complex analyses and results in a clear manner.

PSYC 602 - PSYCHOMETRICS
Short Title: PSYCHOMETRICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Test theory, including reliability, validity, item response theory, and generalizability theory. In addition, the course offers hands-on experience with analysis software and discussion of practical issues such as test bias, item writing, and scale construction.
PSYC 609 - METHODS IN HUMAN-COMPUTER INTERACTION
Short Title: METHODS HUMAN-COMP INTERACTION
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Introduction to methods for developing and testing user interfaces to computer systems. The focus is on web-based applications. Graduate/Undergraduate Equivalency: PSYC 409. Mutually Exclusive: Credit cannot be earned for PSYC 609 and PSYC 409.

PSYC 620 - ADVANCED TOPICS IN COGNITIVE PSYCHOLOGY
Short Title: ADV TOPICS - COGNITIVE PSYC
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Topics will vary. Repeatable for Credit.

PSYC 621 - TOPICS IN MEMORY
Short Title: TOPICS IN MEMORY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Transfer Courses, Satisfactory/Unsatisfactory
Course Type: Lecture
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Topics will vary. Repeatable for Credit.

PSYC 622 - TOPICS IN PSYCHOLINGUISTICS
Short Title: TOPICS IN PSYCHOLINGUISTICS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: In-depth, consideration of specialized topics in the psychology of language. Topics vary from year to year. Repeatable for Credit.

PSYC 624 - SOCIAL/ORGANIZATIONAL PSYCHOLOGY RESEARCH SEMINAR
Short Title: SOCIAL/ORG PSYC RESEARCH SEM
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Weekly seminar to discuss recent research in social/organizational psychology. Instructor Permission Required. Repeatable for Credit.

PSYC 625 - COGNITIVE NEUROSCIENCE RESEARCH SEMINAR
Short Title: COGNEURO RESEARCH SEMINAR
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Weekly seminar to discuss recent research in cognitive neuroscience. Instructor Permission Required. Repeatable for Credit.

PSYC 626 - HUMAN FACTORS/HUMAN-COMPUTER INTERACTION RESEARCH SEMINAR
Short Title: HF/HCI RESEARCH SEMINAR
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Weekly seminar to discuss recent research in human factors/human-computer interaction. Instructor Permission Required. Repeatable for Credit.

PSYC 627 - INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY RESEARCH SEMINAR
Short Title: I/O PSYC RESEARCH SEMINAR
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 1-3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Weekly seminar to discuss recent research in industrial/organizational psychology. Instructor Permission Required. Repeatable for Credit.
PSYC 629 - PSYCHOLINGUISTICS RESEARCH SEMINAR  
Short Title: PSYCHOLINGUISTICS SEMINAR  
Department: Psychology  
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter  
Course Type: Seminar  
Credit Hour: 1  
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: Weekly seminar to discuss recent research in psycholinguistics. Repeatable for Credit.

PSYC 630 - ADVANCED TOPICS IN I/O  
Short Title: ADVANCED TOPICS IN I/O  
Department: Psychology  
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Prerequisite(s): PSYC 530  
Description: Topics will vary. Repeatable for different topics. Repeatable for Credit.

PSYC 631 - FOUNDATIONS OF INDIVIDUAL DIFFERENCES  
Short Title: INDIVIDUAL DIFFERENCES  
Department: Psychology  
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: Applied psychologists attempt to build theoretical and empirical models that effectively explain how variation in individual differences (e.g., cognitive ability, personality, motivation, interests) relates to variation in practically relevant outcomes (e.g., training effectiveness, job performance, response to clinical treatment). This course covers major theoretical and methodological approaches to this end.

PSYC 632 - LEADERSHIP  
Short Title: LEADERSHIP  
Department: Psychology  
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
Course Type: Lecture  
Credit Hours: 3  
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: Examination of the major psychological approaches to the study of leadership. Emphasis is on theory and practice in formal organizations.

PSYC 633 - PERSONNEL PSYCHOLOGY  
Short Title: PERSONNEL PSYCHOLOGY  
Department: Psychology  
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Prerequisite(s): PSYC 530  
Description: Examination of the theory, research, and applications in personnel selection, including job analysis, job performance, evaluation of performance, validation of selection methods, and training.

PSYC 634 - PERSONNEL PSYCHOLOGY  
Short Title: PERSONNEL PSYCHOLOGY  
Department: Psychology  
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Description: Examination of the major psychological approaches to personnel selection, including job analysis, job performance, evaluation of performance, validation of selection methods, and training.

PSYC 636 - ORGANIZATIONAL PSYCHOLOGY  
Short Title: ORGANIZATIONAL PSYCHOLOGY  
Department: Psychology  
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
Course Type: Seminar  
Credit Hours: 3  
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.  
Course Level: Graduate  
Prerequisite(s): PSYC 530  
Description: Contemporary theory and research in organizational psychology, including topics such as motivation, leadership, job satisfaction, occupational stress, social cognition in work organizations, and group processes. Graduate/Undergraduate Equivalency: PSYC 436. Mutually Exclusive: Credit cannot be earned for PSYC 636 and PSYC 436.
PSYC 637 - META-ANALYSIS IN PSYCHOLOGICAL RESEARCH
Short Title: META-ANALYSIS
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Meta-analysis is a popular tool for statistically aggregating effects across related psychological studies. Course topics traverse a wide range of issues, including developing and using a coding sheet, fixed- vs. random-effects models, analysis moderator effects, correcting for statistical artifacts, dealing with dependent outcomes and outliers, and detecting publication bias.

PSYC 638 - STRUCTURAL EQUATION MODELING
Short Title: STRUCTURAL EQUATION MODELING
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Structural equation modeling attempts to provide improved estimates of construct-level relationships. It also allows for complex hypothesis testing (e.g., mediation between groups, longitudinal) to find an appropriate balance between model parsimony and model fit. This course introduces students to basic concepts and applications of this popular research method.

PSYC 639 - INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY INTERNSHIP
Short Title: I/O PSYCHOLOGY INTERNSHIP
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Internship/Practicum
Credit Hours: 1-9
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Supervised internship in organizational and/or personnel psychology. Instructor Permission Required. Repeatable for Credit.

PSYC 640 - TOPICS IN HUMAN-COMPUTER INTERACTION
Short Title: TOPICS IN HCI
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Topics will vary. Repeatable for Credit.

PSYC 641 - SPECIAL TOPICS IN HUMAN-COMPUTER INTERACTION
Short Title: SPECIAL TOPICS IN HCI
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 1-6
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Topics will vary. Repeatable for Credit.

PSYC 649 - HUMAN FACTORS/HUMAN-COMPUTER INTERACTION INTERNSHIP
Short Title: HF/HCI PSYC INTERNSHIP
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Internship/Practicum
Credit Hours: 1-9
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Supervised internship in engineering psychology. Instructor Permission Required. Repeatable for Credit.

PSYC 651 - TOPICS IN SOCIAL PSYCHOLOGY
Short Title: TOPICS IN SOCIAL PSYCHOLOGY
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Topics will vary. Repeatable for Credit.

PSYC 660 - PROFESSIONAL ISSUES
Short Title: PROFESSIONAL ISSUES
Department: Psychology
Grade Mode: Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory
Course Type: Seminar
Credit Hours: 3
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Discussion of selected topics on professional matters. Includes grant writing, licensing, and ethics in psychology.
PSYC 662 - NON-TRADITIONAL INTERFACES  
**Short Title:** NON-TRADITIONAL INTERFACES  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Lecture  
**Credit Hours:** 3  
**Restrictions:** Enrollment is limited to Graduate level students.  
**Course Level:** Graduate  
**Description:** Advanced coverage of human computer interfaces that are not necessarily graphical in nature. The course covers haptic, gesture, locomotion, auditory, voice olfactory, taste interfaces. Impoverished GUIs (small screen) are investigated, as are interactive voice response systems and complex interfaces that are multi-modal. Graduate/Undergraduate Equivalency: PSYC 462. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 662 and PSYC 462.

PSYC 663 - MEDICAL HUMAN FACTORS  
**Short Title:** MEDICAL HUMAN FACTORS  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Lecture  
**Credit Hours:** 3  
**Restrictions:** Enrollment is limited to Graduate level students.  
**Course Level:** Graduate  
**Description:** Advanced coverage of the human factors that are specific to medical systems. Topics include medical decision making and diagnosis errors, surgical human factors, medical robots, surgical simulators, and general medical equipment design. Macro-ergonomics of hospital systems, electronic medical records and computerized physician order entry systems are also covered. Graduate/Undergraduate Equivalency: PSYC 463. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 663 and PSYC 463.

PSYC 664 - USABILITY ASSESSMENT  
**Short Title:** USABILITY ASSESSMENT  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Lecture  
**Credit Hours:** 3  
**Restrictions:** Enrollment is limited to Graduate level students.  
**Course Level:** Graduate  
**Description:** This course covers all of the aspects of specifying, planning, executing, and reporting usability assessments on products, services and systems. Formative and summative assessments are covered, as are "discount" usability methods. This course is project based, with students performing usability assessments as part of an engineering team that is developing products for deployment. Graduate/Undergraduate Equivalency: PSYC 464. Recommended Prerequisite(s): PSYC 370. Mutually Exclusive: Credit cannot be earned for PSYC 664 and PSYC 464.

PSYC 665 - SEMINAR IN GENES AND COGNITION  
**Short Title:** SEMINAR IN GENES AND COGNITION  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Seminar  
**Credit Hours:** 3  
**Restrictions:** Enrollment limited to students with a class of Graduate.  
**Course Level:** Graduate  
**Description:** This seminar will consist of reading and discussing papers on molecular genetic studies of various cognitive functions broadly construed. This will include studies of genes and attention, genes and working memory, and genes and executive function. Will also include readings on genes and disordered cognition (e.g., ADHD, Alzheimer’s).

PSYC 667 - METHODS IN COGNITIVE NEUROSCIENCE  
**Short Title:** METHODS COGNITIVE NEUROSCIENCE  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Lecture  
**Credit Hours:** 3  
**Restrictions:** Enrollment limited to students with a class of Graduate.  
**Course Level:** Graduate  
**Description:** Explores issues in functional neuroimaging and provides hands-on experience with experimental design, data acquisition, and analysis. Examines hemodynamic (PET, FMR), electrophysiologic (EEG, MEG), and other (e.g. neural stimulation, event-related optical) methods of measuring functional activation in the human brain related to cognitive operations. This course is usually offered at the University of Texas Medical School.

PSYC 668 - PERCEPTUAL ORGANIZATION  
**Short Title:** PERCEPTUAL ORGANIZATION  
**Department:** Psychology  
**Grade Mode:** Standard Letter, Audit, Pass/Fail, Satisfactory/Unsatisfactory  
**Course Type:** Seminar  
**Credit Hours:** 3  
**Restrictions:** Enrollment is limited to Graduate level students.  
**Course Level:** Graduate  
**Prerequisite(s):** PSYC 581  
**Description:** Advanced graduate course. Perceptual organization, primarily in human vision but in other senses too. We examine theoretical issues underlying perceptual organization; principal phenomena; methods used to reveal perception of structure; neural basis of perception organization; theories of perceptual organization; and remaining problems in the field.

PSYC 700 - THESIS RESEARCH  
**Short Title:** THESIS RESEARCH  
**Department:** Psychology  
**Grade Mode:** Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter  
**Course Type:** Research  
**Credit Hours:** 1-15  
**Restrictions:** Enrollment limited to students with a class of Graduate.  
**Course Level:** Graduate  
**Description:** Research for the master’s thesis. Repeatable for Credit.
PSYC 800 - DISSERTATION RESEARCH
Short Title: DISSERTATION RESEARCH
Department: Psychology
Grade Mode: Satisfactory/Unsatisfactory, Audit, Pass/Fail, Standard Letter
Course Type: Research
Credit Hours: 1-15
Restrictions: Enrollment limited to students with a class of Graduate. Enrollment is limited to students with a major in Psychology. Enrollment is limited to Graduate level students.
Course Level: Graduate
Description: Research for the doctoral dissertation. Repeatable for Credit.

Description and Code Legend
Note: Internally, the university uses the following descriptions, codes, and abbreviations for this academic program. The following is a quick reference:

Course Catalog/Schedule
• Course offerings/subject code: PSYC

Department Description and Code
• Psychology. PSYC

Undergraduate Degree Description and Code
• Bachelor of Arts degree: BA

Undergraduate Major Description and Code
• Major in Psychology: PSYC

Graduate Degree Descriptions and Codes
• Master of Arts degree: MA
• Doctor of Philosophy degree: PhD

Graduate Degree Program Description and Code
• Degree Program in Psychology: PSYC