Psychology

The Psychology Department offers B.A. and B.S. undergraduate degrees, undergraduate minors in general psychology and clinical psychology, and M.Sc. and Ph.D. graduate degrees.

Psychology is the science of mind, brain, and behavior. Undergraduate study in Psychology provides:

- A knowledge base about how people think, feel, and act as individuals and in groups, from infancy to old age
- An understanding of how psychological principles can be applied in everyday life to improve the human condition
- Working knowledge of empirical research methods for psychology and ethical issues in research and application
- An appreciation of individual, sociocultural, and international diversity
- Familiarity with the relationships of psychological processes to brain processes
- Critical thinking, communication, and teamwork skills

Psychology majors pursue careers in many areas such as: business including marketing and industrial/organizational psychology; education; medicine/health; mental and behavioral health professions including clinical, counseling, and sports psychology; law; human services; and basic and applied research positions. The knowledge and skills provided by a degree in Psychology are valuable to all such careers.

For more information, please visit our website: http://psychology.cas2.lehigh.edu/

Professors. Mark H. Bickhard, PHD (University of Chicago); Diane T. Hyland, PHD (Syracuse University); Deborah Laible, PHD (University of Nebraska-Lincoln); Barbara C. Malt, PHD (Stanford University); Gordon B. Moskowitz, PHD (New York University); Ageliki Nicolopoulou, PHD (University of California Berkeley)

Associate Professors. Catherine M. Arrington, PHD (Michigan State University); Susan E. Barrett, PHD (Brown University); Michael J. Gill, PHD (University Texas, Austin); Almut Hubbach, PHD (Universität Trier); Padraig G. O'Seaghdha, PHD (University of Toronto); Dominic J. Packer, PHD (University of Toronto)

Assistant Professors. Amanda C. Brandon, PHD (University of Michigan Ann Arbor); Christopher T. Burke, PHD (New York University); Lucy Kilp, PHD (University of Sheffield); Jessecae Marsh, PHD (Yale University)

Emeriti. William Newman, PHD (Stanford University); Martin L. Richter, PHD (Indiana State Univer); George K. Shortess, PHD (Brown University)

B.A. MAJOR PROGRAM IN PSYCHOLOGY

The Bachelor of Arts in psychology is a social science major requiring 12 courses (approximately 45 credit hours) in psychology as described below. The B.A. requires three core courses, four 100-level breadth courses, a 100-level recitation section accompanying one of the breadth courses, and four 300-level seminars. Students must also fulfill college and university degree requirements. This flexible program permits development of one or more minors in other fields or the undertaking of a double major. Transfer credits and study abroad coursework may be applied toward the major; however, students must take a minimum of two 100-level breadth courses, three 300-level seminars, and PSYC 210 at Lehigh to complete a psychology major from Lehigh.

Required Core Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 001</td>
<td>Introduction to Psychology</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 110</td>
<td>Statistical Analysis of Behavioral Data</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Experimental Research Methods and Laboratory</td>
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Breadth Courses

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<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PSYC 107</td>
<td>Child Development</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 109</td>
<td>Adulthood and Aging</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 121</td>
<td>Social Psychology</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 153</td>
<td>Personality</td>
<td>1</td>
</tr>
</tbody>
</table>

100-level Recitation

One 100-level recitation section accompanying one of the above breadth courses

Seminars

Four 300-level seminars are required of all B.A. students. Seminars need to span at least two areas. (See list of seminars per area in Psychology Concentrations section below).

Total Credits

42-45

Optional Concentration

Students in the B.A. program may choose to complete an optional concentration. Concentrations are available in four areas: Cognition and Cognitive Neuroscience; Developmental; Social and Personality; and Clinical and Behavioral Health. Completion of a concentration involves selecting specific 100-level breadth courses and 300-level seminars within the concentration. See listings of individual concentration courses below.

Recommended Electives

The B.A. program in psychology is a flexible preparation for a number of fields. With suitable selection of additional courses, students can prepare themselves for graduate study in any subfield of psychology or for careers in areas for which psychology is a desirable and relevant major such as neuroscience, law, social work, marketing, management, and education.

Depending on the specific subfield of interest, many courses in other departments within CAS, and in other Colleges, may be relevant. Examples include Biological Sciences (especially the Behavioral Neuroscience program), Philosophy, Sociology and Anthropology, Marketing, Economics, Management, Education, and in the interdisciplinary programs of Cognitive Science; Women, Gender, and Sexuality Studies; Health, Medicine, and Society; Global Studies; and Africana Studies.

For graduate programs in psychology, neuroscience, and related fields, additional coursework in research and statistics is desirable, as is engagement in supervised research and participation in the honors program.

Preparation for programs in health-related areas such as nursing, medicine, and dentistry will include additional coursework in biology, chemistry, and physics. Students should consult with the appropriate pre-professional advisors to determine specific requirements.

Students interested in applying psychology to fields such as law, marketing, social work, management, or education should consult with faculty in those areas to discuss relevant courses.
B.S. MAJOR PROGRAM IN PSYCHOLOGY

The Bachelor of Science in psychology is a highly structured and comprehensive behavioral science major requiring 13 courses (approximately 49 credit hours) in psychology and 10 collateral courses (approximately 35-40 credit hours) as described below. Students must also fulfill college and university degree requirements. Students pursuing a wide-range of post-graduate plans may find this program fits their needs and interests. One difference between the B.S. in psychology and other B.S. programs is that the collateral requirements for the B.S. in psychology allow for a level of breadth that is not always possible in B.S. programs. The collateral courses for the B.S. in psychology span three areas (Mathematics and Computer Science; Natural Science; and Social and Cognitive Science). Hence, students with wide-ranging interests may find that they can pursue their varied interests while fulfilling the collateral requirements for this B.S. program. For students considering graduate programs in psychology, neuroscience, and related fields, additional coursework in research and statistics is desirable, as is engagement in supervised research and participation in the honors program.

Students in the B.S. program must complete a concentration in Cognition and Cognitive Neuroscience; Developmental; Social and Personality; or Clinical and Behavioral Health. Progression through the program is best served through early commitment. Students who do not declare their majors early may find it difficult to complete the B.S. major program. Transfer credits and study abroad course work may be applied toward the major; however, students must take a minimum of two 100-level breadth courses, three 300-level seminars, and PSYC 210 at Lehigh to earn a psychology major from Lehigh.

Requirements for the B.S. in Psychology

Collateral Requirements

For students in the B.S. program, collateral courses can be used to fulfill the college distribution requirements in mathematics, natural science, and social science. To fulfill natural science college distribution requirements, at least one course must include the natural science, and social science. To fulfill the college distribution requirements in mathematics, at least one course must include the associated lab.

Please consult the course listings for information on prerequisites.

Mathematics and Computer Science 7-8

Select two from the following:

MATH 012 Basic Statistics
MATH 043 Survey of Linear Algebra
Any of the calculus courses or above
CSE 001 Breadth of Computing
& CSE 002
Any CSE course 12 or above

Natural Science 14-16

Select at least one from the following:

BIOS 010 Bioscience in the 21st Century
BIOS 041 Biology Core I: Cellular and Molecular
EES 025 The Environment and Living Systems
EES 028 Conservation and Biodiversity
EES 031

Plus three additional courses from the following:

Any BIOS course 010 or above
Any CHM course 030 or above
Any PHY course 010 or above
EES courses 25, 28, or 31

Social and Cognitive Science 7-8

Select two from the following:

Any Anthropology (ANTH), Sociology and Anthropology (SOAN), Sociology (SOC), Philosophy (PHIL), Cognitive Science (COGS), 1,2 Any area studies (Asian, Africana, etc.); Global Studies (GS); Health, Medicine, and Society (HMS); Science, Technology, and Society (STS); or Women, Gender, and Sexuality Studies (WGSS), 1,2

Additional Coursework 7-8

Select any two additional courses from the above lists. 3

Total Credits 35-40

1 Courses may not be cross-listed with Psychology.
2 Courses must have a SS designation.
3 Students are strongly encouraged to discuss their interests and career goals with their advisor before selecting courses.

Psychology Requirements

Required Core Courses 12

<table>
<thead>
<tr>
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Breadth Courses 14-16

Four 100-level courses, with a minimum of one from each of the following three areas, are required of all majors. 1

Cognition and Cognitive Neuroscience

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PSYC/COGS 117</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC/COGS 176</td>
<td>Cognitive Neuroscience</td>
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</table>

Developmental

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PSYC 107</td>
<td>Child Development</td>
</tr>
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<td>PSYC 109</td>
<td>Adulthood and Aging</td>
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Social and Personality

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<td>Social Psychology</td>
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<tr>
<td>PSYC 153</td>
<td>Personality</td>
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</table>

100-level Recitation 1

One 100-level recitation section accompanying one of the above breadth courses

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<tbody>
<tr>
<td>PSYC 182</td>
<td>Child Development Recitation</td>
</tr>
<tr>
<td>PSYC 183</td>
<td>Cognitive Psychology Recitation</td>
</tr>
<tr>
<td>PSYC 184</td>
<td>Cognitive Neuroscience Recitation</td>
</tr>
<tr>
<td>PSYC 185</td>
<td>Personality Recitation</td>
</tr>
<tr>
<td>PSYC 186</td>
<td>Social Psychology Recitation</td>
</tr>
</tbody>
</table>

Seminars 18-20

Five 300-level seminars are required of all B.S. students. Seminars need to span at least two areas. (See list of seminars per area in Psychology Concentrations section below.) 2

Total Credits 45-49

1 The fourth 100-level breadth course is determined by the concentration being pursued.
2 Students can not use PSYC 300, PSYC 310, PSYC 391, PSYC 392, PSYC 393, PSYC 394 or to fulfill this requirement. All other 300-level psychology courses can be used to fulfill this requirement.

PSYCHOLOGY CONCENTRATIONS

Concentrations are available in four areas: Cognition and Cognitive Neuroscience; Developmental; Social and Personality; and Clinical and Behavioral Health. Students in the B.A. major program may choose to complete a concentration. Students in the B.S. major program are required to complete a concentration. Completion of a concentration involves selecting two specific 100-level breadth courses and three 300-level seminars within the concentration area.

Cognition and Cognitive Neuroscience Concentration

Specified 100-level breadth courses, take both:

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<tr>
<td>PSYC/COGS 176</td>
<td>Cognitive Neuroscience</td>
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</tbody>
</table>

300-level seminars, choose three:

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PSYC 304</td>
<td>Memory Development from Infancy to Old Age</td>
</tr>
<tr>
<td>PSYC 307</td>
<td>Higher Order Cognition</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Psychology of Language</td>
</tr>
<tr>
<td>PSYC 344</td>
<td>Health Care Reasoning and Decision-Making</td>
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</tbody>
</table>
Clinical and Behavioral Health Concentration
Specified 100-level breadth courses, take both:
PSYC 138  Abnormal Psychology
PSYC 384  Self and Identity

Social and Personality Concentration
Specified 100-level breadth courses, take both:
PSYC 121  Social Psychology
PSYC 153  Personality

Developmental Concentration
Specified 100-level breadth courses, take both:
PSYC 107  Child Development
PSYC 109  Adulthood and Aging

300-level seminars, choose three:
PSYC 304  Memory Development from Infancy to Old Age
PSYC 318  Seminar in Gender and Psychology
PSYC 328  Educational Psychology
PSYC 346  Child Development and Social Policy
PSYC 351  Children's Thinking
PSYC 352  Adolescence and Emerging Adulthood
PSYC 358  Inside the Infant Mind
PSYC 363  Personality and Social Development in Childhood
PSYC 364  Children and Narratives
PSYC 365  Human Development in Cross-Cultural Perspective
PSYC 368  Children, Psychology, and the Law
PSYC 378  Emotional Development
PSYC 383  Attachment Theory & Research: The Study of Close Relationships Across the Lifespan
PSYC 386  Child and Adolescent Health Psychology

DEPARTMENT HONORS IN PSYCHOLOGY
Students in either the B.A. or B.S. degree programs may undertake a program that leads to graduation with department honors. The honors program permits majors of unusual academic ability and interest to explore topics in greater depth than the curricula normally allow. Under faculty supervision, a student normally spends the first semester of the senior year enrolled in PSYC 391 doing library research, learning the appropriate methodology, and preparing a written proposal and oral presentation. In the second semester, while the student is enrolled in PSYC 392, the proposal is implemented, culminating in a written honors thesis and oral presentation.

In the junior year, students may apply for the honors program with the department Honors Program Director. To be eligible to participate in the honors program, a student must maintain overall and major GPAs of 3.5.

MINOR PROGRAMS
General Psychology
The general psychology minor consists of a minimum of four courses in psychology beyond the introductory course (PSYC 001). Students should declare this minor in the Psychology Department office.

Clinical Psychology
The clinical psychology minor consists of the following courses beyond the introductory course (PSYC 001):

Required Courses 12
PSYC 138  Abnormal Psychology
PSYC 153  Personality
PSYC 367  Clinical Psychology

Elective Courses 8
Select two from the following:
PSYC 302  Stress and Coping
PSYC 327  Health Psychology
PSYC 328  Educational Psychology
PSYC 354  Psychological Assessment

Total Credits 20
The clinical minor is available to Psychology majors as well as to students from other majors. To complete the clinical minor, students must be prepared to register for at least one summer session since some courses (PSYC 367, PSYC 354) are most frequently offered in the summer, and other courses have limited enrollment during the academic year. Only one course may be used to jointly fulfill the requirements of a major program and minor program.

FOR GRADUATE STUDENTS
The Department of Psychology offers a distinctive, research-intensive graduate program centered on Human Cognition and Development with specializations in cognitive, developmental and social psychology. The department accepts mainly Ph.D. students,
who obtain a master’s degree in the process of working for the doctorate. However, well-qualified students may also be accepted for a Master of Science degree. Students are trained primarily for positions at universities, and in basic or applied research settings. For more information visit: http://psychology.cas2.lehigh.edu/content/welcome-graduate-program-psychology.

In addition we offer two non-degree Certificate Programs in collaboration with other departments and programs.

The Graduate Certificate in Stereotypes, Prejudice, Discrimination, and Intergroup Relations is administered by the Psychology Department. Information is available via: http://psychology.cas2.lehigh.edu/content/stereotypes-prejudice-discrimination-and-intergroup-relations-graduate-certificate.

The Graduate Certificate in Cognitive Science is administered by the Cognitive Science Program. Information is available at: http://psychology.cas2.lehigh.edu/content/cognitive-science-graduate-certificate.

Requirements for a Ph.D. in the Department of Psychology

Research
All graduate students are expected to be involved in research throughout their graduate careers. There are also several formal research requirements of the program.

First-Year Apprenticeship
First-year students are expected to choose an advisor and begin to work on research projects as early as possible. An oral report of the student’s research activities is made to the department. Students will submit a draft Master’s Thesis Proposal by June 1 of the first year of the Ph.D. program.

Master’s Thesis
A master’s thesis (usually empirical or data-based) is required. An oral presentation of the thesis is made to the department. Students entering with a master’s degree may instead conduct an equivalent non-degree Pre-dissertation Project.

Third-Year independent scholarly activity
Third year students will work toward formulation of their dissertation proposal by completing a literature review or writing a small grant proposal. By the end of the third year of the Ph.D. program, students will choose a dissertation committee, and meet to report on their research activities.

Doctoral Dissertation
This is an original piece of scholarly work usually involving empirical research, although original theoretical or historical research is possible with faculty approval.

Course work
For the Ph.D., the minimum course requirements include:

- Three core courses covering cognitive psychology (PSYC 403), developmental psychology (PSYC 402), and social cognition (PSYC 406);
- Two courses in statistics and research methodology (PSYC 421 and PSYC 422);
- At least three graduate seminars (PSYC 430 and above);
- Two elective courses, approved by the advisor;
- A professional development seminar (PSYC 409)

Teaching
Students are encouraged to participate in teaching as appropriate for their training throughout their graduate years. Normally, students begin as teaching assistants and progress to teaching independently.

General Examination
A general examination is required for all doctoral candidates and will be completed at the end of the second year of the Ph.D. program. Readings and questions for the exam will be compiled by faculty in the student’s specialization area.

Requirements for a Master of Science in the Department of Psychology

Research
Master of Science students will complete the First-Year Apprenticeship and Master’s Thesis requirements as described in the Ph.D. section above.

Coursework
For the M.Sc., the minimum course requirements include:

- Two core courses covering cognitive psychology (PSYC 403), developmental psychology (PSYC 402), or social cognition (PSYC 406);
- Two courses on statistics and research methodology (PSYC 421, and PSYC 422 or approved equivalent);
- Two elective courses, approved by the advisor;
- A professional development seminar (PSYC 409)

Evaluation
Graduate students are evaluated on their performance in coursework, research and scholarship, teaching assistantship assignments, and the general examination. The faculty provides each student with an annual written evaluation of their progress in the graduate program.

Financial Support
Support for Ph.D. students is available in the form of teaching and research assistantships, fellowships and scholarships.

How To Apply
Information about admission and financial aid can be obtained from the Department of Psychology or found at: https://psychology.cas2.lehigh.edu/node/67. While a strong undergraduate background in psychology is desirable, promising students with majors other than psychology are encouraged to apply. Completed application forms, plus transcripts, letters of recommendation, and a report of scores on the Graduate Record Exam and advanced tests in psychology should be submitted no later than January 1 of the year of admission. New students are normally accepted for entrance into the program only for the fall semester.

Courses
PSYC 001 Introduction to Psychology 4 Credits
Psychology as a science of behavior. Natural science aspects such as learning, sensation-perception, and physiological bases; and social science aspects such as human development, intelligence, and personality. Methodologies appropriate to these areas, and related societal problems.

Attribute/Distribution: SS

PSYC 107 Child Development 4 Credits
Survey of theories and research concerning perceptual, cognitive, social, and personality development through infancy and childhood. May not be taken pass/fail. Open to Freshman with departmental permission.

Prerequisites: PSYC 001 or SOC 001

Attribute/Distribution: SS

PSYC 109 Adulthood and Aging 4 Credits
Social science approaches to the latter two-thirds of life. Cognitive and personality development; attitudes toward aging; social behavior of older adults; widowhood; retirement. May not be taken pass/fail. Open to Freshman with departmental permission.

Prerequisites: PSYC 001 or SOC 001

Attribute/Distribution: SS

PSYC 110 Statistical Analysis of Behavioral Data 4 Credits
Principles of experimental design and statistical analysis: characteristics of data and data collection; descriptive statistics; hypothesis testing theory and practice; correlation, chi-square, t-test, analysis of variance. Three hours lecture and one hour computer lab. Department permission required. Open to Freshman with departmental permission.

Attribute/Distribution: ND
PSYC 115 Religion and Psychology 4 Credits
A study of the origins, development and consequences of religion from a psychological perspective. Attention will be given to classic and contemporary sources, with a focus on major psychoanalytic theorists of religion (Freud, Jung, Erikson); psychological analyses of religious experience (e.g., Wm. James, Victor Frankl); and the diverse cultural and religious forms that structure the connection between religion and psychology (e.g., Buddhist psychology, Japanese Morita therapy).
Attribute/Distribution: HU

PSYC 117 (COGS 117) Cognitive Psychology 4 Credits
The architecture and dynamics of the human mind: How we acquire knowledge through perception, represent and activate it in memory, and use it to communicate, make decisions, solve problems, and reason creatively. May not be taken pass/fail.
Prerequisites: PSYC 001 or COGS 007
Attribute/Distribution: SS

PSYC 121 Social Psychology 4 Credits
Theories, methods of investigation, and results of research on the way social and psychological processes interact in human behavioral settings. Topics include analysis of self and relationships, dynamics of small groups, attitudes and persuasion, prejudice, prosocial and antisocial behavior. Open to Freshman with departmental permission.
Prerequisites: SOC 001 or PSYC 001
Attribute/Distribution: SS

PSYC 138 (HMS 138) Abnormal Psychology 4 Credits
Examines research and theory on the patterns, causes, and treatment of various forms of abnormal behavior.
Prerequisites: PSYC 001
Attribute/Distribution: SS

PSYC 153 Personality 4 Credits
Examination of the major theoretical frameworks psychologists use to understand human thought, feeling, and behavior. Whereas these frameworks each emphasize very different concepts (e.g., the unconscious mind vs. culture vs. neurotransmitters), they are united in their effort to answer the question: Why does a given individual think, feel, or behave as she does?
Prerequisites: PSYC 001 or SOC 001
Attribute/Distribution: SS

PSYC 160 Independent Study 1-3 Credits
Readings on topics selected in consultation with a staff member. Consent of faculty sponsor required.
Repeat Status: Course may be repeated.
Prerequisites: PSYC 001
Attribute/Distribution: SS

PSYC 161 Supervised Research 1-3 Credits
Apprenticeship in ongoing faculty research program. Literature review, experimental design, data collection and analysis, and professional writing under faculty supervision. Consent of faculty sponsor required.
Repeat Status: Course may be repeated.
Prerequisites: PSYC 001 or COGS 007
Attribute/Distribution: SS

PSYC 162 Psychological Field Work 1-3 Credits
Work-study practice including supervised experience in one of several local agencies. Development of familiarity with the operations of the agency and working with individual patients or students. Must have completed two additional psychology courses. Consent of instructor required.
Repeat Status: Course may be repeated.
Prerequisites: PSYC 001
Attribute/Distribution: SS

PSYC 176 (COGS 176) Cognitive Neuroscience 4 Credits
Perception and cognitive neuroscience as the link between mental processes and their biological bases. Visual and auditory perception; the control of action; neuropsychological syndromes of perception, language, memory and thought; neural network (connectionist) models of mental processes. May not be taken pass/fail.
Prerequisites: PSYC 001 or COGS 007
Attribute/Distribution: NS

PSYC 182 Child Development Recitation 1 Credit
Research, discussion, and analysis of topics in child development.
Prerequisites: PSYC 107
Can be taken Concurrently: PSYC 107
Attribute/Distribution: ND

PSYC 183 Cognitive Psychology Recitation 1 Credit
Research, discussion, and analysis of topics in cognitive psychology.
Prerequisites: PSYC 117 or COGS 117
Can be taken Concurrently: PSYC 117, COGS 117
Attribute/Distribution: ND

PSYC 184 Cognitive Neuroscience Recitation 1 Credit
Research, discussion, and analysis of topics in cognitive neuroscience.
Prerequisites: PSYC 176 or COGS 176
Can be taken Concurrently: PSYC 176, COGS 176
Attribute/Distribution: ND

PSYC 210 Experimental Research Methods and Laboratory 4 Credits
Designing, conducting, and reporting psychological experiments. Laboratory exercises, report writing, and a group research project. Consent of department required.
Prerequisites: PSYC 001 and PSYC 110
Attribute/Distribution: ND

PSYC 300 Apprentice Teaching 1-4 Credits
How does stress affect the psychological system, and what psychological mechanisms are in place to help people overcome environmental stressors? This seminar examines classic and contemporary theories and research on stress, coping, and social support.
Prerequisites: PSYC 121 or SOC 121 or PSYC 153 or SOC 153
Attribute/Distribution: SS

PSYC 304 Memory Development from Infancy to Old Age 4 Credits
Memory development throughout the lifespan. We will discuss methods invented to study memory in preverbal infants, and the amazing memory capacities they have revealed. We will explore memory components that develop during early and middle childhood, look at memory in adults, and consider the normal and pathological decline of memory in older age, and possible ways of slowing aging processes down.
Prerequisites: PSYC 117 or COGS 117 or PSYC 176 or COGS 176 or COGS 007
Attribute/Distribution: SS

PSYC 307 Higher Order Cognition 4 Credits
In depth exploration of selected areas of higher level cognition such as thinking and reasoning, metacognition, expertise, executive processes, language and thought.
Prerequisites: PSYC 117 or PSYC 176 or COGS 007
Attribute/Distribution: SS

PSYC 310 Advanced Research Methods in Psychology 4 Credits
Experimental and nonexperimental research design; sampling and selection from populations; Data exploration; Quantitative and qualitative measurement and analysis; Computer-based data collection; and other specialized topics.
Prerequisites: PSYC 210
Attribute/Distribution: ND
PSYC 311 The Psychology of Stereotyping, Prejudice, and Discrimination 4 Credits
We will start by examining the basic cognitive processes that make stereotyping a functional aspect of everyday cognition, and then we will turn toward examining emotional, motivational, and personality differences that affect one’s level of prejudice. Finally, we will study the role of social forces in transmitting prejudice (parents, schools, religion, media) and the impact of societal prejudice (discrimination) on those who are the targets of prejudice. The changing face through the decades of how stereotypes, prejudice, and discrimination are measured, expressed, and understood is the focus of the course.
Prerequisites: PSYC 153 or SOC 153 or PSYC 121 or SOC 121
Attribute/Distribution: SS

PSYC 313 Person Perception 4 Credits
Psychological processes involved in forming impressions of others. Survey of the factors that influence the way in which we think about the people who make up our social environment and of the laboratory methods with which experimental social psychology investigates person perception. The emphasis is on demonstrating the joint impact of the behaviors performed by others and the biases/expectancies that we bring into the social setting.
Prerequisites: PSYC 153 or SOC 153 or PSYC 121 or SOC 121
Attribute/Distribution: SS

PSYC 314 Social Cognition 3,4 Credits
Examines the cognitive processes through which people make sense of social groups, individual others, themselves, and the world. Topics include judgment and decision making, attitudes and persuasion, ordinary personology, stereotyping and prejudice, and the self.
Prerequisites: PSYC 121 or SOC 121
Attribute/Distribution: SS

PSYC 317 Psychology of Emotion 4 Credits
A selective overview of the scientific study of emotion. Topics will include: historical and modern theories of emotion, physiological and neuropsychological aspects of emotions, evidence that facial expressions of emotion may be universal among humans, and the role of emotion in cognition.
Prerequisites: PSYC 110
Attribute/Distribution: SS

PSYC 318 (WGSS 318) Seminar in Gender and Psychology 4 Credits
Gender as shaped by psychological and social psychological processes. Socialization, communication and power, gender stereotypes, methodological issues in sex differences research. Consent of department required.
Prerequisites: PSYC 210
Can be taken Concurrently: PSYC 210
Attribute/Distribution: SS

PSYC 320 Psychology of Language 4 Credits
Psychological processes involved in language comprehension, production, and use. Topics include the relation of language to thought; word meaning; speech perception; language acquisition; sign language; language in society.
Prerequisites: PSYC 117 or PSYC 176 or COGS 007
Attribute/Distribution: SS

PSYC 321 Language Development 4 Credits
Descriptive and theoretical accounts of the development of language. Primary focus is on the development of spoken language in infancy and early childhood. Involves observation of children at various stages of language development.
Prerequisites: PSYC 107 or PSYC 117
Attribute/Distribution: SS

PSYC 327 (HMS 327) Health Psychology 4 Credits
An overview of the topic of health psychology. The course presupposes a preventative intervention approach to the problem of assisting healthy individuals to understand the relationship between behavior and health, and to engage those behaviors that promote health. This course will be underpinned with basic science and research on health psychology, but will include an application focus.
Prerequisites: PSYC 001
Attribute/Distribution: SS

PSYC 328 Educational Psychology 4 Credits
Overview of historical, contemporary, and emerging issues in the field of educational psychology. Implications of various social, cognitive and behavioral educational-psychological theories for teaching and learning in the classroom.
Prerequisites: PSYC 107 or PSYC 117
Attribute/Distribution: SS

PSYC 332 The Psychology of Human Goodness 4 Credits
We begin with the Big Questions: Are human beings intrinsically good? How potent is our intrinsic capacity for goodness? What does it mean to be “good” or “moral”? How can we answer these questions? Next, we examine a variety of motives, capacities, and emotions that can promote our “good” behavior. Some examples include empathy, compassion (and other moral emotions), the justice motive, the norm enforcement motive, moral intuitions, social bonds, and perhaps even our general capacity for reason.
Prerequisites: PSYC 121 or SOC 121
Attribute/Distribution: SS

PSYC 333 (HMS 334, WGSS 334) The Psychology of Body Image and Eating Disorders 4 Credits
The course addresses the psychosocial aspects of the development of healthy and unhealthy body image and eating disorders. The roles of personality traits/individual factors, family and interpersonal functioning, and cultural factors will be examined, as will the impact of representations of body image in mass media. Public health and psychological interventions for prevention and treatment will be explored. Personal accounts/memoirs, clinical case presentations, and documentary and dramatic films will be incorporated in the presentation of topics.
Attribute/Distribution: SS

PSYC 335 (BIOS 335) Animal Behavior 3 Credits
Discussion of the behavior of invertebrates and vertebrates and analysis of the physiological mechanisms responsible for behavioral actions, and adaptive value of specific behavior patterns.
Prerequisites: BIOS 121 and BIOS 122
Attribute/Distribution: NS

PSYC 338 Phenomenology and Theory of Childhood Disorders 4 Credits
The nature, classification, and treatment of childhood disorders.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 341 Social Psychology and Social Issues 4 Credits
This course examines the methods, concepts, and research findings associated with the effort to apply social psychology to the understanding and amelioration of social problems. Special attention will be paid to the topic of human conflict.
Attribute/Distribution: SS

PSYC 344 (HMS 344) Health Care Reasoning and Decision-Making 4 Credits
Health care professionals diagnose physical and mental illnesses and create treatment plans to improve their patients’ health. How do these professionals make decisions related to these important issues? We will explore the literature on how medical and mental health professionals reason and make decisions about health care issues. Topics to be covered include diagnosis, treatment decisions, access to care, and how these reasoning processes are swayed. Consideration will be given to patient decision-making as well.
Prerequisites: PSYC 117 or PSYC 176 or COGS 007
Attribute/Distribution: SS
PSYC 346 Child Development and Social Policy 4 Credits
This course explores the intersection of child development research and social policy. We will examine what we know about healthy child development from current research and how it can help inform and improve existing programs, policies, and recommendations for children and families. Topics include critical social policy issues such as child care, early childhood education, child abuse, divorce and child custody, adolescent pregnancy, poverty, bullying, and technology and media.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 347 Cognitive Neuroscience of Memory 4 Credits
This seminar explores the brain systems and neural mechanisms involved in the formation and retrieval of memories. Topics include mechanisms of forgetting, amnesia and hippocampus, emotional memory systems, superior autobiographical memory, role of sleep, and effects of stress on memory.
Prerequisites: PSYC 117 or COGS 117 or PSYC 176 or COGS 176
Attribute/Distribution: NS

PSYC 348 (HMS 348) Drugs and Behavior 4 Credits
Why are some people more vulnerable to substance use problems than others? How can we effectively address substance abuse in our society? This course explores theories and research on the complex psychological, social, and biological factors that contribute to substance use and disorders. Topics include theories of addiction, characteristics of illegal and legal drugs, risk and protective factors, and research on substance abuse prevention.
Prerequisites: PSYC 001
Attribute/Distribution: SS

PSYC 349 (HMS 349) Participatory and Action Research in Psychology 4 Credits
Action research is used to understand important real-world social problems and promote social action. Participatory research engages community members as equals to help identify areas of focus and to design studies and interventions. This course provides an overview of the rich history of these approaches in psychology, an in-depth look at how they can be used effectively, and an opportunity to gain hands-on experience.
Prerequisites: PSYC 121 or PSYC 153
Attribute/Distribution: SS

PSYC 350 The Psychology of Evil 4 Credits
It has been said that no animal could ever be as cruel as a human being. Indeed, human beings have a notable propensity for inflicting harm on other human beings: Physical assault, homicide, torture, and even genocide. What is the psychology behind such actions? What are the root causes? In exploring these questions, we will consider the issue of what, if anything, can be done to reduce evil in the world.
Prerequisites: PSYC 121 or PSYC 153
Attribute/Distribution: SS

PSYC 351 Children's Thinking 4 Credits
This course examines the development of children’s thinking from infancy through adolescence. We will discuss current research and theories on the content of children’s knowledge and how mental abilities develop. We will also consider the implications of research on children's thinking for real-world questions about parenting, education, and policy-making. Topics include memory, concepts, social cognition, language, reading, mathematics, and individual and cultural differences.
Prerequisites: PSYC 107 or PSYC 117 or COGS 007
Attribute/Distribution: SS

PSYC 352 Adolescence and Emerging Adulthood 4 Credits
Adolescence is a dynamic development period encompassing multiple interrelated changes in the biological, cognitive, psychological, and social domains. This course will cover theories and research in adolescence and explore connections between research and policy. We will also consider whether emerging adulthood is a separate stage of development.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 353 Social Justice and Social Change 4 Credits
How do people decide to engage in collective action to challenge social injustice? We will examine motivators and tactics of resistance, as well as barriers to change, against the historical backdrop of the civil rights movement and in the context of current societal and global disparities.
Prerequisites: PSYC 121
Attribute/Distribution: SS

PSYC 354 Psychological Assessment 4 Credits
Basic concepts in the construction, selection, administration, scoring, and interpretation of assessment procedures commonly used in psychology. Selection and evaluation of assessment procedures. Supervised experience administering, scoring, and interpreting assessment procedures.
Prerequisites: PSYC 110
Attribute/Distribution: SS

PSYC 358 Inside the Infant Mind 4 Credits
How do babies understand and learn about the world? This course explores the origin and development of human knowledge by venturing inside the infant mind. Topics include current research and theory on infants’ understanding of objects, number, language, and people. Research examining thinking in non-human primates is also considered to shed light on what aspects of knowledge are and are not uniquely human.
Prerequisites: PSYC 107 or PSYC 117 or COGS 007
Attribute/Distribution: SS

PSYC 362 Cognition in Practice & Policy 3,4 Credits
Taking the study of cognition from principle to practice, this course examines how basic research and theory informs understanding of human performance in real-world settings. Topics will be chosen from domains such as automobile safety, environmental and medical decision-making, human-technology interaction, spatial navigation, and breakdown of cognition under fatigue and alcohol. Public policy implications will be considered.
Prerequisites: PSYC 117 or COGS 007
Attribute/Distribution: SS

PSYC 363 Personality and Social Development in Childhood 4 Credits
Issues related to social development (e.g., attachment, social competence), social contexts (e.g., family, day care), and personality development (e.g., sex roles, aggression, temperament) from infancy through adolescence.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 364 Children and Narratives 4 Credits
Examines the complex role of narratives-told to and by children, and enacted by children in play-in children’s experience and development. Compares and seeks to integrate different approaches in psychology and other disciplines. In the process, we will also be addressing three basic questions: what is narrative, how is it significant, and how should we study it?
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 365 (GS 365) Human Development in Cross-Cultural Perspective 4 Credits
The formation of mind and personality is shaped in profound ways by the sociocultural contexts within which individuals develop. This course introduces students to basic theoretical and methodological issues and explores important examples of cross-cultural variation and diversity, using comparisons between different societies and between different subcultures within American society. Topics include cognition, language, personality, moral development, socio-emotional development, identity, attachment, and socialization. Materials drawn from anthropology, sociology and education in addition to psychology.
Prerequisites: PSYC 109 or PSYC 107 or PSYC 121 or SOC 121 or ANTH 001
Attribute/Distribution: SS
PSYC 366 Seminar In Cognitive Aging 4 Credits
Information processing by older adults: perception, attention, memory, speech and text processing and comprehension. The course will also examine the effects on cognitive processing of such diseases as Alzheimer’s and Parkinson’s.
Prerequisites: PSYC 109
Attribute/Distribution: SS

PSYC 367 Clinical Psychology 4 Credits
The science and profession of helping people overcome psychological problems. Theories of human personality and abnormality in relation to techniques for assessing and treating psychosocial problems, and in the light of empirical evidence of validity and effectiveness. Professional issues are also covered.
Prerequisites: (PSYC 153 or SOC 153) and (PSYC 138)
Attribute/Distribution: SS

PSYC 368 Children, Psychology, and the Law 4 Credits
Covers psychological research on child witnesses, child victims, juvenile crime, children’s rights and decision-making capabilities, divorce and custody. Implications of psychological research for social policy and legal reform will be discussed.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 369 Memory Under Construction 4 Credits
Investigation of the constructive nature of human memory through hands-on exercises, reading and discussion. Includes exploration of personal memories, a memory expanding project, and a final project. Coverage includes autobiographical memory, expert memory, and memory disorders.
Prerequisites: PSYC 117 or PSYC 176 or COGS 007
Attribute/Distribution: SS

PSYC 377 Attention and Attentional Failures 4 Credits
Attention allows us to function in complex environments where we have more information than we could possibly process all at once and failures of attention can have drastic consequences. Experimental and neuropsychological evidence will be surveyed for topics including basic attentional phenomena, the role of attention in everyday tasks, and the impact of attentional failures from mind wandering to neuropsychological deficits like ADHD.
Prerequisites: PSYC 117 or PSYC 176 or COGS 007 or COGS 117 or COGS 176
Attribute/Distribution: SS

PSYC 378 Emotional Development 4 Credits
The course will cover selected topics in emotional development from infancy through adulthood. Topics will include: infant attachment (learning to love), romantic attachment (being in love), emotion regulation, sympathy/empathy, anger/aggression, temperament, etc. We will also discuss the ways in which significant relationships with peers and parents shape children’s emotional development.
Prerequisites: PSYC 107

PSYC 380 Sports Psychology 4 Credits
Theory, research and application comprise this focal area of psychology. The course will allow students to explore the theory and research giving rise to individual, team, and peak performance assessment and interventions. Topics will include assessment, affect modulation, imagery, cognitive formulation, and psychodynamic development.
Prerequisites: PSYC 110 or PSYC 153 or SOC 153

PSYC 381 Special Topics In Psychology 4 Credits
Topics vary from semester to semester. Topics are presented at an advanced level. Previous course work in psychology and consent of faculty sponsor is required.
Repeat Status: Course may be repeated.

PSYC 382 (BIOS 382) Endocrinology of Behavior 3 Credits
Hormonal effects upon animal and human behavior. Emphasis on neuroendocrinology of steroid hormone involvement in reproductive behaviors.
Prerequisites: BIOS 121
Attribute/Distribution: NS

PSYC 383 Attachment Theory & Research: The Study of Close Relationships Across the Lifespan 4 Credits
This course will examine the influence of close relationships across the lifespan on personality development. We will examine the influence of parents, peers, siblings, and romantic relationships using traditional attachment theory. In addition, we will also explore how attachment quality is measured and the clinical applications of attachment theory.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 384 Self and Identity 4 Credits
We will examine different types of identity (e.g., personal, relational, collective) and the cognitive processes that allow for a multifaceted yet unified sense of self. We will study how self-related motives (e.g., enhancement, consistency, distinctiveness) influence self-knowledge, self-regulation, and mental health. Finally, we will explore the origins of self from evolutionary, neuroscientific, and cultural perspectives.
Prerequisites: PSYC 121 or SOC 121 or PSYC 153 or SOC 153
Attribute/Distribution: SS

PSYC 386 (HMS 386) Child and Adolescent Health Psychology 4 Credits
Focuses on developmental research and theory related to health and wellness issues in children and adolescents. Topics include children's understanding of biology and disease, disease management, medical consent, education and policy efforts to promote children's health.
Prerequisites: PSYC 107
Attribute/Distribution: SS

PSYC 389 Honors Project 1-8 Credits
Repeat Status: Course may be repeated.

PSYC 391 Thesis 4 Credits
Written report: Literature review and design of project in selected area of psychology. Only open to students in the honors program. Consent of Honors Program Coordinator required.
Prerequisites: PSYC 210
Attribute/Distribution: ND

PSYC 392 Thesis 3 Credits
Execution of project designed in PSYC 391. Final report and oral presentation. Only open to students in the honors program. Consent of Honors Program Coordinator required.
Prerequisites: (PSYC 391)
Attribute/Distribution: ND

PSYC 393 Independent Research 1-3 Credits
Individual research projects designed and executed in collaboration with faculty sponsor. Regular meetings with sponsor to give progress reports and receive feedback. Student reads relevant literature and writes report in APA format. Consent of faculty sponsor required.
Repeat Status: Course may be repeated.
Prerequisites: PSYC 210 or PSYC 161
Attribute/Distribution: ND

PSYC 394 Senior Research Project 3 Credits
Literature review, design and execution of project in selected area of psychology. Intended for senior majors in psychology. Consent of faculty sponsor required.
Repeat Status: Course may be repeated.
Attribute/Distribution: ND

PSYC 402 Developmental Psychology 3 Credits
Survey of theories and research concerning perceptual, cognitive, social, and personality development through infancy and childhood. Must have graduate standing or consent of instructor.

PSYC 403 Cognitive Psychology 3 Credits
Survey of theories and research in cognitive psychology. Must have graduate standing or consent of instructor.

PSYC 404 (BIOS 404) Behavioral Neuroscience 3 Credits
Theoretical and empirical issues in biopsychology. Must have graduate standing or consent of instructor.
PSYC 406 Social Cognition 3 Credits
Theory and research on cognitive processes in personality and social functioning. The self, personality consistency and change, causal attributions, social judgment, goals and self-regulation, and mood and emotion. Topics may vary. Must have graduate standing or consent of instructor.

PSYC 409 Professional Seminar I 1 Credit
For students entering the Ph.D. program: Acculturation to graduate school and the Psychology Ph.D. program in particular; professional issues of relevance to individuals at the outset of a research career in psychology. Department permission required.

PSYC 410 Professional Seminar II 1 Credit
For students nearing graduation: Professional issues of special relevance to Psychology Ph.D. students preparing for academic or nonacademic postdoctoral employment. Department permission required.

PSYC 412 First Year Research Project 1-3 Credits
Research project or paper to be completed by June of the first year of the Ph.D. program under the direction of a faculty advisor. May be repeated in second semester of program.
Repeat Status: Course may be repeated.

PSYC 421 Statistical Analysis of Psychological Data I 3 Credits
First of a two-semester sequence covering essential issues in statistical analysis as practiced by psychologists. Topics include data description, probability, z and t-tests, general linear model, simple correlation/regression, univariate analysis of variance, chi-square. Emphasis on connecting research designs to appropriate statistical tests, data interpretation, and implementation in statistical packages. Department permission required.

PSYC 422 Statistical Analysis of Psychological Data II 3 Credits
Second course of the two-semester statistics sequence. Topics include advanced analysis of variance designs, analysis of covariance, multivariate analysis, multiple regression, and analysis of categorical data. Emphasis on connecting research designs to appropriate statistical tests, data interpretation, and implementation in statistical packages. Consent of department required.
Prerequisites: PSYC 421

PSYC 423 (COGS 423) Foundations of Cognitive Science 3 Credits
Survey of fundamental theory and methodologies from artificial intelligence, linguistics, cognitive psychology, philosophy, and neuroscience, as well as salient research problems such as knowledge acquisition and representation, natural language processing, skill acquisition, perception and action, and the philosophical question of intentionality.

PSYC 433 Cognitive Neuroscience Techniques 3 Credits
This glimpse into the toolkit of modern cognitive neuroscience will provide an overview of a range of techniques from psychopharmacology and single cell recording, to human neuroimaging and neuropsychology. The course introduces different techniques with a focus on issues of temporal and spatial resolution of different methods, the costs and benefits of various techniques, and the appropriateness of techniques for different types of research questions. Students will develop the skills to be knowledgeable consumers of the modern literatures in psychology and related fields that are increasingly incorporating a range of neuroscience methods.
Prerequisites: PSYC 403

PSYC 443 Seminar In Language Acquisition 3 Credits
Special topics in language acquisition. Content will vary each time the seminar is offered.
Prerequisites: PSYC 402 or PSYC 403

PSYC 446 Developmental Theories and Special Populations 3 Credits
Traditional developmental theories focus on normative development. Children with disabilities have a unique set of experiences that pose special challenges for these theories. In the developmental literature, children with disabilities have often been the focus of studies because they provide a “test case” for specific theoretical predictions. In this course, we will consider some of these theoretical issues and the insights that have been gained by focusing on special populations.
Prerequisites: PSYC 402

PSYC 448 Seminar in Psychology of Language 3 Credits
Topics in language comprehension and production. Content will vary from year to year.
Prerequisites: PSYC 403

PSYC 450 Special Topics in Mathematical Models and Statistics 3 Credits
Selected topics in the application of mathematics to psychological research.
Repeat Status: Course may be repeated.

PSYC 461 Research Seminar 1-9 Credits
Original research designed and executed in collaboration with the faculty.
Repeat Status: Course may be repeated.

PSYC 462 Stereotypes, Prejudice, Discrimination 3 Credits
An in-depth survey of the social psychological literature on stereotypes, prejudice, and discrimination. Topics will include: Origin of stereotypes, mental representation of stereotypes, cognitive and behavioral consequences of stereotypes, inevitability of stereotyping, nature of prejudice in contemporary American society, context-specificity of discriminatory behavior, and theories of intergroup conflict reduction.
Prerequisites: PSYC 406

PSYC 464 Naive Realism in Social Judgement 3 Credits
This seminar examines the variety of unconscious influences that impact on social judgment, with a focus on the cognitive processing mechanisms through which influence is exerted. These influences include contributions to judgment from attitudes, goals, accessible constructs, mindsets, stereotypes, expectancies, heuristics, and theories about social objects.
Prerequisites: PSYC 402

PSYC 466 Prosocial Cognition, Emotion, and Behavior 3 Credits
In this course we will examine such phenomena as compassion, caregiving, sympathy, justice motivation, and helping. We will begin with an examination of human nature: Is prosociality fundamental to human nature? Subsequently, we will examine how prosociality can be nurtured by particular developmental experiences. Finally, we will examine the literature on the nature of prosociality in adulthood: What cognitive capacities support prosociality? What situational factors promote prosociality? What emotional qualities promote prosociality? What belief systems are linked to prosociality?
Prerequisites: PSYC 406

PSYC 476 Seminar In Cognition 3 Credits
Selected topics in human information processing, including such areas as attention, memory, language and comprehension, and decision-making. Area of emphasis will vary from year to year.
Prerequisites: PSYC 403

PSYC 478 (COGS 478) Ontological Psychology 3 Credits
Principles and constraints for the modeling of psychological phenomena: Representation, perception, memory, knowing, emotions, consciousness, language, and rationality.
PSYC 480 Seminar in Cognitive Development 3 Credits
Selected topics in cognitive development in infancy and childhood, including such areas as conceptual development, memory development, the development of reasoning abilities, and language acquisition. Emphasis will vary from year to year.
**Prerequisites:** PSYC 402

PSYC 481 Selected Topics in Social and Personality Development 3 Credits
Topics include emotional and sex-role development, peer relations, and social competence. Emphasis will vary from year to year.
**Prerequisites:** PSYC 402

PSYC 482 Seminar In Adult Development 3 Credits
Application of lifespan developmental theory and methodology to personality, social, and cognitive development in adulthood.
**Prerequisites:** PSYC 402

PSYC 483 Seminar In Cultural Psychology 3 Credits
Major theoretical approaches and empirical debates in cultural psychology, with a focus on the interplay of individual and sociocultural elements in the formation of mind, the emergence of the self, and the definition and reproduction of culture.
**Prerequisites:** PSYC 402

PSYC 484 (WGSS 484) Psychology of Gender 3 Credits
Major theoretical approaches and empirical debates in the psychology of gender, with a focus on the interplay of nature and nurture in producing gender similarities, gender differences and gender variation in personality, social behaviors, cognitive abilities, achievement, sexuality, and mental health. Methodological issues in gender research. Consent of instructor required.

PSYC 490 Thesis Research 1-6 Credits
Master's Thesis or Pre-dissertation Project research directed by committee.

PSYC 495 Narrative & Psychology 3 Credits
This course explores the increasing significance of narrative analysis in psychology by delineating the conceptual foundations of a narrative perspective and considering arguments for narrative as an integrative paradigm in psychological research. Particular emphasis will be on the constitutive role of narrative in cognitive and socio-emotional development, the formation of identity, moral understanding, and other domains. Some specific topics will be narrative development, autobiographical memory, self-narrative, identity development, narratives of conflict, and the role of narrative in socialization and education.

PSYC 499 Dissertation Research 1-15 Credits
Ph.D. dissertation research directed by dissertation committee.