Psychology

The Psychology Department offers B.A. and B.S. undergraduate degrees, an undergraduate minor, and M.S. and Ph.D. graduate degrees in psychology.

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, including to address societal needs
- · Training in scientific reasoning, critical thinking, and problem solving, including effective research methods to address psychological phenomena
- An appreciation of individual, sociocultural, and international diversity
- Opportunities to build skills in writing and oral communication

Psychology majors pursue careers in many areas such as: business (marketing, human resources, industrial/organizational psychology); education; medicine/health; mental and behavioral health professions (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.cas.lehigh.edu/ (http://psychology.cas2.lehigh.edu/)

B.A. MAJOR PROGRAM IN PSYCHOLOGY

The Bachelor of Arts in psychology is a social science major situated within the College of Arts and Sciences' liberal arts tradition. The B.A. requires 13 courses (approximately 49 credit hours) in psychology: Introduction to Psychology, four 100-level breadth courses, a 100level recitation section accompanying one of the breadth courses. a three course research methods and data analysis sequence, and four 300-level seminars. Students are required to complete a portfolio of written work that provides a record of their learning and accomplishments throughout the major. Students must also fulfill college and university degree requirements.

This flexible program provides rigorous training in psychology while leaving room for double-majoring, pursuing one or more minors, and exploring other opportunities available at Lehigh. Unlike the B.S. major, which requires additional designated courses in math, natural science, and other social sciences, the B.A. major allows students greater freedom in selecting which courses they will take outside of the psychology curriculum.

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 the PSYC 201, 202, and 203 sequence at Lehigh to complete a psychology major from Lehigh.

Required Core Cor	urses	16
PSYC 001	Introduction to Psychology	
PSYC 201	Research Methods and Data Analysis I	
PSYC 202	Research Methods and Data Analysis II	
PSYC 203	Research Methods and Data Analysis	

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. The fourth 100-level breadth course may be selected from any of the courses below, or PSYC 130 Introduction to Health Psychology, or PSYC 138 Abnormal Psychology.

Cognition and Cognitive Neuroscience		
PSYC/COGS 117	Cognitive Psychology	
PSYC/COGS 176	Cognitive Neuroscience	

Developmental

PSYC 107	Child Development	
PSYC 109	Adulthood and Aging	
Social and Person	ality	
PSYC 121	Social Psychology	
PSYC 153	Personality	
100-level Recitation		1
One 100-level recitation above breadth courses	on section accompanying one of the	
PSYC 182	Child Development Recitation	
PSYC 183	Cognitive Psychology Recitation	
PSYC 184	Cognitive Neuroscience Recitation	
PSYC 185	Personality Recitation	
PSYC 186	Social Psychology Recitation	
Seminars		15-16

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).

Student Portfolio

Students are also required to complete a portfolio of written work that provides a record of their learning and accomplishments throughout the major.

Total Credits 46-49

1

Students can not use PSYC 300, PSYC 310, PSYC 389, PSYC 391, PSYC 392, PSYC 393 or PSYC 394 to fulfill this requirement. All other 300-level psychology courses can be used to fulfill this requirement.

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; Development; Social and Personality Psychology; 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 14 courses (approximately 53 credit hours) in psychology and 9 collateral courses (approximately 31-36 credit hours) as described below. Students are required to complete a portfolio of written work that provides a record of their learning and accomplishments throughout the major. Students must also fulfill college and university degree requirements.

The B.S. program is intended for psychology majors with strong interests in math and natural sciences. This program may also be attractive to students who are preparing for careers in medicine or related health fields because it incorporates some of the math and natural science courses required for professional study in these fields.

The B.S. program offers broad training in psychological science with a concentration in Cognition and Cognitive Neuroscience; Development; Social and Personality Psychology; or Clinical and Behavioral Health. In addition to the required psychology coursework, the B.S. also includes collateral courses that span three areas (Mathematics and Computer Science; Natural Science; and Social and Cognitive Science). These additional requirements mean that B.S. students have relatively fewer opportunities to pursue coursework outside of the major curriculum. 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 the PSYC 201, 202, and 203 sequence at Lehigh to earn a psychology major from Lehigh.

Requirements for the B.S. in Psychology Collateral Requirements

Mathematics and Computer Science

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 associated lab.

Please consult the course listings for information on prerequisites.

watnematics and Computer Science 7-8		
Select two from the follo	owing:	
MATH 012	Basic Statistics	
MATH 043	Survey of Linear Algebra	
Any MATH course 21	or above	
CSE 003 & CSE 004	Introduction to Programming, Part A and Introduction to Programming, Part B	
Any CSE course 007	or above	
Natural Science		14-16
Select at least one from	the following:	
BIOS 010	Bioscience in the 21st Century	
BIOS 041	Introduction to Cellular and Molecular Biology	
EES 025	The Environment and Living Systems	
EES 028	Conservation and Biodiversity	
PSYC 012	Introduction to Human Neuroscience	
Plus three additional co	urses from the following:	
ANTH 012	Intro to Archaeology and Human Origins	
PSYC 012	Introduction to Human Neuroscience	
Any ASTR course 00	7 or above	
Any BIOS course 010	or above	
Any CHM course 030	Any CHM course 030 or above	
Any EES course 002	Any EES course 002 or above	
Any PHY course 010	or above	
Social and Cognitive Science 7		

Select any two SS courses that are not cross-listed with

psychology.

Possible departments include (but are not limited to): Africana Studies (AAS), Asian Studies (ASIA), Cognitive Science (COGS), Global Studies (GS), Health, Medicine, & Society (HMS), History (HIST), International Relations (IR), Communication (COMM), Latin American & Latino Studies (LAS), Philosophy (PHIL), Political Science (POLS), Religion Studies (REL), Science, Technology, & Society (STS), Sociology and Anthropology (ANTH, SOAN, SOC), Women, Gender, & Sexuality Studies (WGSS) 1,2

Total Credits	31-36
Select any one additional course from the above lists. 3	
Additional Coursework	3-4
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Courses may not be cross-listed with Psychology.

2

Courses must have a SS designation.

3

7-8

Students are strongly encouraged to discuss their interests and career goals with their advisor before selecting courses.

Psychology Requirements

Breadth Courses

•	Required Core Cours	2 8	10
	PSYC 001	Introduction to Psychology	
	PSYC 201	Research Methods and Data Analysis I	
	PSYC 202	Research Methods and Data Analysis II	
	PSYC 203	Research Methods and Data Analysis III	

16

14-16

Four 100-level courses, with a minimum of one from each of the following three areas, are required of all majors. The fourth 100-level breadth course is determined by the concentration being pursued and may be selected from any of the courses below, or PSYC 130 Introduction to Health Psychology, or PSYC 138 Abnormal Psychology.

PSTC 130 ADHOITIAI PS	ychology.	
Cognition and Cogn	itive Neuroscience	
PSYC/COGS 117	Cognitive Psychology	
PSYC/COGS 176	Cognitive Neuroscience	
Developmental		
PSYC 107	Child Development	
PSYC 109	Adulthood and Aging	
Social and Personal	ity	
PSYC 121	Social Psychology	
PSYC 153	Personality	
100-level Recitation		1
One 100-level recitation above breadth courses	section accompanying one of the	
PSYC 182	Child Development Recitation	
PSYC 183	Cognitive Psychology Recitation	
PSYC 184	Cognitive Neuroscience Recitation	
PSYC 185	Personality Recitation	
PSYC 186	Social Psychology Recitation	
Seminars	18	8-20
	are required of all B.S. students.	

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.)

Student Portfolio

Students are also required to complete a portfolio of written work that provides a record of their learning and accomplishments throughout the major.

Total Credits 49-53

1

Students can **not** use PSYC 300, PSYC 310, PSYC 389, PSYC 391, PSYC 392, PSYC 393 or PSYC 394 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; Development; Social and Personality Psychology; 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:

	PSYC/COGS 117	Cognitive Psychology
	PSYC/COGS 176	Cognitive Neuroscience
300	0-level seminars, cho	ose three:
	PSYC 304	
	PSYC 307	Higher Order Cognition
	PSYC 316	The Talking World: Psychology and Neuroscience of Speaking
	PSYC 320	
	PSYC/HMS 344	Health Care Reasoning and Decision Making
	PSYC 347	Cognitive Neuroscience of Memory
	PSYC 351	Children's Thinking
	PSYC 355	Seminar in Cognitive Neuroscience
	PSYC/ES 357	Psychology of Environmental Issues
	PSYC 358	
	PSYC 362	Cognition in Practice & Policy
	PSYC 369	
	PSYC 371	Special Topics in Cognition & Cognitive Neuroscience
	PSYC 376	Child Language and Social Inequality
	PSYC 377	Attention and Attentional Failures
	PSYC 382	Endocrinology of Behavior
Das	volonment Concentr	otion

Development Concentration

Specified 100-level brea	odth courses, take both:
PSYC 107	Child Development
PSYC 109	Adulthood and Aging
300-level seminars, cho	ose three:
PSYC 304	
PSYC/WGSS 318	Seminar in Gender and Psychology
PSYC 328	Educational Psychology
PSYC 338	Phenomenology and Theory of Childhood Disorders
PSYC 346	Child Development and Social Policy
PSYC 351	Children's Thinking
PSYC 352	Adolescence and Emerging Adulthood
PSYC 358	
PSYC 363	Personality and Social Development in Childhood
PSYC 364	
PSYC/GS 365	Human Development in Cross- Cultural Perspective
PSYC 368	
PSYC 372	Special Topics in Developmental Psychology
PSYC 375	Development of Good and Evil
PSYC 376	Child Language and Social Inequality
PSYC 378	Emotional Development

PSYC 383

PSYC/HMS 386	Pediatric Psychology

Social and Personality Psychology Concentration

Specified 100-level breadth courses, take both:

	PSYC 121	Social Psychology
	PSYC 153	Personality
3	300-level seminars, cho	ose three:
	PSYC/HMS 302	Stress and Coping
	PSYC 311	The Psychology of Stereotyping, Prejudice, and Discrimination
	PSYC 313	Person Perception
	PSYC 314	Social Cognition
	PSYC/WGSS 318	Seminar in Gender and Psychology
	PSYC/AAS 326	The Doing and Undoing of Racism
	PSYC 330	Contemporary Topics in Industrial/ Organizational Psychology
	PSYC 332	The Psychology of Morality
	PSYC 341	Social Psychology and Social Issues
	PSYC/HMS 349	Participatory and Action Research in Psychology
	PSYC 350	The Psychology of Evil
	PSYC 353	Social Justice and Social Change
	PSYC/ES 357	Psychology of Environmental Issues
	PSYC 363	Personality and Social Development in Childhood
	PSYC 364	
	PSYC/GS 365	Human Development in Cross- Cultural Perspective
	PSYC 373	Special Topics in Social & Personality Psychology
	PSYC 375	Development of Good and Evil
	PSYC 378	Emotional Development
	PSYC 383	

Clinical and Behavioral Health Concentration

PSYC 384

Specified 100-level brea	adth courses, choose two of three:
PSYC/HMS 130	Introduction to Health Psychology
PSYC/HMS 138	Psychopathology
PSYC 153	Personality
300-level seminars, cho	ose three:
PSYC/HMS 302	Stress and Coping
PSYC 319	The Psychology of Trauma
PSYC/HMS 327	Advanced Topics in Health Psychology
PSYC/HMS 334	The Psychology of Body Image and Eating Disorders
PSYC 338	Phenomenology and Theory of Childhood Disorders
PSYC/HMS 344	Health Care Reasoning and Decision Making
PSYC 346	Child Development and Social Policy
PSYC/HMS 348	Drugs and Behavior
PSYC 354	Psychological Assesssment
PSYC 367	Clinical Psychology
PSYC 374	Special Topics in Clinical & Behavioral Health
PSYC 376	Child Language and Social Inequality
PSYC 378	Emotional Development
PSYC 379	Grief, Anxiety, and Resilience
PSYC 380	Sports Psychology
PSYC/HMS 386	Pediatric Psychology

Self and Identity

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 PROGRAM

General Psychology

The general psychology minor consists of a minimum of five courses in psychology including the introductory course (PSYC 001). At least three of the five required psychology courses must be taken at Lehigh. Each course must be at least three credits.

FOR GRADUATE STUDENTS

The Department of Psychology offers a distinctive, research-intensive graduate program 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: https://psychology.cas.lehigh.edu/content/welcome-graduate-program-psychology (https://psychology.cas.lehigh.edu/content/welcome-graduate-program-psychology/).

In addition, we offer a non-degree Graduate Certificate in Cognitive Science in collaboration with the Cognitive Science Program. Information is available at: http://psychology.cas.lehigh.edu/content/cognitive-science-graduate-certificate (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 (PSYC406);
- 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.cas.lehigh.edu/node/67 (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. A complete application--containing all requested information--should be submitted no later than **December 15th**. New students are normally accepted for entrance into the program only for the fall semester. To apply, please begin here: https://psychology.cas.lehigh.edu/node/67/). Please note that our department deadline of December 15th supersedes any deadline you might see elsewhere (e.g., on the College of Arts and Sciences website).

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.

PSYC 012 Introduction to Human Neuroscience 4 Credits

In this introductory course, we will uncover how our brains are able to give rise to the complexities of human thought and behavior. We will examine the neural bases of seeing, hearing, sleep, dreaming, sexual behavior, emotion, aggression, behavioral disorders, learning, and memory.

Attribute/Distribution: NS

PSYC 091 Special Topics 1-4 Credits

Intensive study of a topic of special interest not covered in other

courses.

Repeat Status: Course may be repeated.

Attribute/Distribution: SS

PSYC 107 Child Development 4 Credits

Survey of theories and research concerning physical, perceptual, cognitive, social, and emotional development from conception through adolescence, and the various factors and contexts (e.g., genes, parenting, peers, school, culture) that influence developmental processes. May not be taken pass/fail. Open to Freshmen 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 Freshmen with departmental permission.

Prerequisites: PSYC 001 or SOC 001

Attribute/Distribution: SS

PSYC 115 (REL 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

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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. May not be taken pass/fail. Open to Freshmen with departmental permission.

Prerequisites: SOC 001 or PSYC 001

Attribute/Distribution: SS

PSYC 130 (HMS 130) Introduction to Health Psychology 4 Credits

This course explores the psychological processes that influence how people stay healthy, why people get sick, and how people respond to illness. The course also examines what the study of health psychology has to teach us about illness prevention and the provision of health care services. May not be taken pass/fail.

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. May not be taken pass/fail.

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? May not be taken pass/fail. Open to Freshmen with departmental permission.

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 (COGS 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

PSYC 184 (COGS 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 185 Personality Recitation 1 Credit

Research, discussion, and analysis of topics in personality.

Prerequisites: PSYC 153

Can be taken Concurrently: PSYC 153

PSYC 186 Social Psychology Recitation 1 Credit

Research, discussion, and analysis of topics in social psychology.

Prerequisites: PSYC 121

Can be taken Concurrently: PSYC 121
PSYC 191 Special Topics 1-4 Credits

Intensive study of a topic of special interest not covered in other courses.

Repeat Status: Course may be repeated.

PSYC 201 Research Methods and Data Analysis I 0,4 Credits

Part 1 of a course sequence on how to design and analyze psychological research. This course sequence focuses on developing research questions and answering them using appropriate research designs and complementary data analysis techniques: descriptive statistics, hypothesis testing, correlation, regression, chi-square, t-test, analysis of variance. Three hours of lecture and 75-minute recitation.

Prerequisites: PSYC 001

PSYC 202 Research Methods and Data Analysis II 0,4 Credits

Part 2 of a course sequence on how to design and analyze psychological research. This course sequence focuses on developing research questions and answering them using appropriate research designs and complementary data analysis techniques: descriptive statistics, hypothesis testing, correlation, regression, chi-square, t-test, analysis of variance. Three hours of lecture and 75-minute recitation.

Prerequisites: PSYC 201

PSYC 203 Research Methods and Data Analysis III 0.4 Credits

Part 3 of a course sequence on how to design and analyze psychological research. Students will design, conduct, and analyze behavioral research studies and develop skills in scientific writing. **Prerequisites:** PSYC 201 and PSYC 202

PSYC 291 Special Topics 1-4 Credits

Intensive study of a topic of special interest not covered in other courses.

Repeat Status: Course may be repeated.

Attribute/Distribution: SS

PSYC 300 Apprentice Teaching 1-4 Credits

PSYC 302 (HMS 302) Stress and Coping 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 PSYC 153 or HMS 160 or HMS 180

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 COGS 117

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 203

PSYC 311 The Psychology of Stereotyping, Prejudice, and Discrimination 4 Credits

We first examine the basic cognitive processes that make stereotyping a functional aspect of everyday cognition, and then 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. How stereotypes, prejudice, and discrimination are understood, measured, expressed, and altered is the focus of the course.

Prerequisites: PSYC 153 or PSYC 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 PSYC 121

Attribute/Distribution: SS

PSYC 314 Social Cognition 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 Attribute/Distribution: SS

PSYC 316 The Talking World: Psychology and Neuroscience of Speaking 4 Credits

Intricate processes underlie the everyday activity of speaking. We will examine the components of speaking, from thinking to articulation, within and across individual speakers and languages, using behavioral and neuroscientific evidence.

Prerequisites: PSYC 117 or COGS 117 or PSYC 176 or COGS 176

Attribute/Distribution: NS

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 203

Can be taken Concurrently: PSYC 203

Attribute/Distribution: SS

PSYC 319 (HMS 319) The Psychology of Trauma 4 Credits

This course explores the nature of psychological trauma, including the physiological, emotional, cognitive, behavioral, interpersonal, and developmental impact of exposure to extreme stress and traumatic events. Historical and current perspectives on the individual and cultural effects of trauma will be examined, including consequences of relational trauma, traumatic loss, injury/illness, crime, combat exposure, terrorism, natural disasters, and vicarious traumatization. Posttraumatic Stress Disorder and related conditions will be explored, as will the nature of effective intervention techniques, recovery, adaptive coping, and resilience.

Prerequisites: PSYC 138 or HMS 138

Attribute/Distribution: SS

PSYC 326 (AAS 326) The Doing and Undoing of Racism 4 Credits

This course will provide students with a critical understanding of historical, legal, and social psychological factors that lead to prejudice, discrimination, and racism within our society. It will survey the US constitution, policy, and social psychological theories that explain the causes and maintenance of prejudice, discrimination, and racism in their many forms. Students will learn how laws and various theoretical perspectives apply to people's psychological functioning and group behavior, and examine theoretically derived interventions to reduce prejudice, discrimination, and racism.

Prerequisites: PSYC 121 or AAS 003

Attribute/Distribution: SS

PSYC 327 (HMS 327) Advanced Topics in Health Psychology 4 Credits

This course provides an overview of the psychological study of health. The course explores psychological theories that aim to explain health behavior (e.g., why do people smoke?) and the role of psychology in understanding the experience of illness. This course also examines how psychological research and theory can be applied to promote health behavior (e.g., how can we design interventions to promote physical activity).

Prerequisites: PSYC 130 or HMS 130

PSYC 328 Educational Psychology 4 Credits

Overview of historical, contemporary, and emerging issues in the field of educational psychology with an emphasis on connections between theory and instructional practice.

Prerequisites: PSYC 107 Attribute/Distribution: SS

PSYC 330 Contemporary Topics in Industrial/Organizational Psychology 4 Credits

Industrial / Organizational Psychology is the application of psychological principles, tools, and theories to the workplace. This subdiscipline employs a scientist-practitioner model in the quest to optimize fit between persons, jobs, and the organizational environment. Optimization criteria include finding a balance between productivity and quality of work life for workers. Motivation, leadership, personality, stress, feedback, technology, diversity, and human potential are some of the themes explored amidst a changing landscape of challenges to the world of work.

Prerequisites: PSYC 121 or PSYC 153

Attribute/Distribution: SS

PSYC 332 The Psychology of Morality 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 Attribute/Distribution: SS

PSYC 334 (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 044 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 COGS 117 or PSYC 130 or HMS 130 or

COGS 007 or HMS 160 or HMS 180

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 storage, retrieval and forgetting in normal and clinical populations, 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 130 or HMS 130 or HMS 160 or HMS 180

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 or PSYC 130 or HMS 130 or

HMS 160 or HMS 180
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

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 or COGS 117

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 Assesssment 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 202 Attribute/Distribution: SS

PSYC 355 Seminar in Cognitive Neuroscience 4 Credits

How have measures of brain activity contributed to our understanding of human information processing? Discoveries from 'peering into the brain' have led to conclusions that would have been impossible using behavioral measures alone. In this course we will examine topics that highlight the unique benefit of cognitive neuroscience techniques to the understanding of human cognition.

Prerequisites: PSYC 176 or COGS 176

Attribute/Distribution: NS

PSYC 357 (EVST 357) Psychology of Environmental Issues 4 Credits

Environmental problems and solutions begin with the thoughts, feelings, and behaviors of individual people. We will examine Western ways of relating to nature and the beliefs people hold about it, how they reason about environmental issues, and how they perceive environmental risk and make decisions. We will also consider environmental communication and attitude and behavior change, exploring arenas ranging from patterns of consumption and recycling to climate change. Research methods for investigating these issues will be introduced.

Prerequisites: PSYC 001 Attribute/Distribution: SS

PSYC 362 Cognition in Practice & Policy 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 or COGS 117

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 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

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 138 or HMS 138

Attribute/Distribution: SS

PSYC 371 Special Topics in Cognition & Cognitive Neuroscience 4 Credits

Topics within cognition and cognitive neuroscience vary from semester to semester. Topics are presented at an advanced level.

Repeat Status: Course may be repeated.

Attribute/Distribution: SS

PSYC 372 Special Topics in Developmental Psychology 4 Credits

Topics within developmental psychology vary from semester to semester. Topics are presented at an advanced level.

Repeat Status: Course may be repeated.

Attribute/Distribution: SS

PSYC 373 Special Topics in Social & Personality Psychology 4 Credits

Topics within social and personality psychology vary from semester to semester. Topics are presented at an advanced level.

Repeat Status: Course may be repeated.

Attribute/Distribution: SS

PSYC 374 Special Topics in Clinical & Behavioral Health 4 Credits

Topics within clinical and behavioral health vary from semester to semester. Topics are presented at an advanced level.

Repeat Status: Course may be repeated.

PSYC 375 Development of Good and Evil 4 Credits

The goal of the course is to trace the origins of children's good (i.e., prosocial and moral) and evil (i.e., aggressive and bullying) behavior. We will examine the biological (e.g., genetic), cognitive (e.g., social information processing), and contextual factors (e.g., media, parenting, neighborhoods, and peers) that contribute to the development of children's good and evil behavior.

Prerequisites: PSYC 107 Attribute/Distribution: SS

PSYC 376 Child Language and Social Inequality 4 Credits

What factors influence language development, both positively and negatively, for children growing up in socially and economically disadvantaged situations? Differences in children's mastery of language can have a major impact on their acquisition of literacy, long-term school success, and ability to achieve their full potential. Topics include parent-child interactions in different socio-economic and cultural contexts; effects of maternal education and SES; the significance of differences between the languages of home and school; and interventions to address language and knowledge gaps. Prerequisites: PSYC 107 or PSYC 109 or PSYC 117 or COGS 117

Attribute/Distribution: SS

PSYC 377 Attention and Attentional Failures 4 Credits

Attention allows us to function in complex environments where there is 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 Attribute/Distribution: SS

PSYC 379 (HMS 379) Grief, Anxiety, and Resilience 4 Credits

Grief and anxiety are familiar experiences for many people, and for some they can become debilitating. How can we understand the role these experiences play in a person's life? In this course, we will explore diverse perspectives on grief and anxiety. We will also explore the possibility of being resilient to these experiences, even becoming stronger in the face of adversity. As part of this exploration, we will spotlight the biographies of historical figures who have written about their experiences.

Prerequisites: PSYC 121 or PSYC 130 or PSYC 153 or HMS 130 or

HMS 160 or HMS 180 Attribute/Distribution: SS

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 153 or PSYC 202

Attribute/Distribution: SS

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 044 Attribute/Distribution: NS

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 PSYC 153

Attribute/Distribution: SS

PSYC 386 (HMS 386) Pediatric 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 or PSYC 130 or HMS 130

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 203 Attribute/Distribution: ND

PSYC 392 Honors 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

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 161 or PSYC 203

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.

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 provides 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, costs and benefits, and appropriateness for different 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 445 Prosocial and Moral Development 3 Credits

This course will explore children's prosocial and moral development (including the development of moral emotions, cognition, behavior, and values) in infancy through adolescence. In addition to exploring normative prosocial and moral development, we will also focus on the biological, social, and cultural factors that predict individual differences in prosocial and moral development.

PSYC 447 Understanding Evil, Understanding Morality 3 Credits

Cruelty, aggression, and mass killing are encountered all-too-frequently in human affairs. At the same time, most people feel allegiance to a "moral code," a code which invariably emphasizes kindness, compassion, non-violence, and even loving one's enemies. In this course, we will examine the psychological literature to see what insights it offers regarding these two perennial forces--Evil and Morality--that underlie human action.

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 457 (EVST 457) Psychology of Environmental Issues 3 Credits

Environmental problems and solutions begin with the thoughts, feelings, and behaviors of individual people. We will examine Western ways of relating to nature and the beliefs people hold about it, how they reason about environmental issues, and how they perceive environmental risk and make decisions. We will also consider environmental communication and attitude and behavior change, exploring arenas ranging from patterns of consumption and recycling to climate change. Research methods for investigating these issues will be introduced.

PSYC 460 Special Study 1-9 Credits

Study of some special topic not covered in the regular course offerings.

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 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 490 Thesis Research 1-6 Credits

Master's Thesis or Pre-dissertation Project research directed by committee.

PSYC 491 Special Topics 1-3 Credits

Intensive study of a topic of special interest not covered in other courses.

Repeat Status: Course may be repeated.

PSYC 499 Dissertation Research 1-15 Credits

Ph.D. dissertation research directed by dissertation committee.