NEUROSCIENCE AND BEHAVIOR

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Prof. Katherine Fox-Glassman, 314 Schermerhorn; kjt2111@columbia.edu (Students with last names beginning I-S)
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The Department of Psychology (https://psychology.columbia.edu/) offers students a comprehensive curriculum in psychological science, including research methods, cognition, neuroscience, developmental, social, and clinical areas. The curriculum prepares majors for graduate education in these fields and also provides a relevant background for social work, education, medicine, law, and business. Psychology course offerings are designed to meet the varying needs and interests of students, from those wishing to explore a few topics in psychology or to fulfill the science requirement, to those interested in majoring in Psychology (https://psychology.columbia.edu/content/psychology-major/) or in Neuroscience and Behavior (https://psychology.columbia.edu/content/neuroscience-behavior-major/).

Program Goals
The department’s program goals (https://psychology.columbia.edu/content/psychology-program-goals/) start with the development of a solid knowledge base in psychological science. Consistent with the value psychology places on empirical evidence, courses at every level of the curriculum nurture the development of skills in research methods, quantitative literacy, and critical thinking, and foster respect for the ethical values that undergird the science of psychology.

Most of these program goals (https://psychology.columbia.edu/content/psychology-program-goals/) are introduced in PSYC UN1001 The Science of Psychology, the recommended first psychology course required for all majors that satisfies the prerequisite for most 2000-level courses. These goals are extended and reinforced in our statistics (1600-level) and research methods (1400-level) research methods courses, as well as in the 2000-level lecture courses and 3000- and 4000-level seminars. Each of the 2000-level lecture courses enables students to study systematically, and in greater depth, one of the content areas introduced in PSYC UN1001 The Science of Psychology. These lecture courses are the principal means by which psychology majors satisfy the distribution requirements, ensuring not only depth but also breadth of coverage across three central areas of psychology: (1) perception and cognition, (2) psychobiology and neuroscience, and (3) social, personality, and abnormal psychology. To complete the major, students take one or more advanced seminars and are encouraged to participate in supervised research courses, where they have the opportunity to explore research questions in depth and further develop their written and oral communication skills.

Research Participation
All qualified students are welcome to apply to join a research lab and contribute to ongoing projects. Students may volunteer to work in a lab, register for supervised individual research (PSYC UN3950 (https://psychology.columbia.edu/content/supervised-individual-research/) or Supervised Individual Research), or participate in the department's two-year Honors Program (https://psychology.columbia.edu/content/honors-program/). Information on faculty research (https://psychology.columbia.edu/content/faculty/) is available on the departmental website. Students are advised to read about research laboratories on faculty lab sites (https://psychology.columbia.edu/content/lab-websites/) and visit the professor's office hours to discuss opportunities. At the beginning of the fall term, the department also hosts a Lab-Preview (https://psychology.columbia.edu/sites/default/files/content/Lab%20Preview%20Handout%2018%20-%20Final.pdf) event for students to learn about research opportunities (https://psychology.columbia.edu/content/research-opportunities/) for the upcoming semester.

Program Planning
Majors and concentrators in psychology and majors in neuroscience and behavior should begin planning a program of study as early as possible. All necessary forms and information are available in Program Planning Tips (https://psychology.columbia.edu/content/program-planning-tips/). All majors and concentrators in Psychology (https://psychology.columbia.edu/content/psychology-major/) and majors in Neuroscience and Behavior (https://psychology.columbia.edu/content/neuroscience-behavior-major/) should complete a Major Requirement Checklist (https://psychology.columbia.edu/content/major-concentration-requirement-checklists/) before consulting a program adviser to discuss program plans. At minimum, all students must submit a Major Requirement Checklist (https://psychology.columbia.edu/content/major-concentration-requirement-checklists/) prior to the start of their final semester, so that graduation eligibility can be certified.
Advising

The Department of Psychology offers a variety of advising resources to provide prospective and current undergraduate majors and concentrators with the information and support needed to successfully plan their programs. An overview of these resources is provided on the Psychology Undergraduate Advising Resources website (https://psychology.columbia.edu/content/advising/).

Students are encouraged to consult with Peer, Faculty, and Program Advisers as they plan their course of study in Psychology or Neuroscience and Behavior. Faculty and Peer Advisers are important contacts for general advice on class choices, research opportunities, and post-graduation plans. For definitive answers to questions regarding major requirements and other aspects of your degree, including transfer credit, current and prospective majors should consult their Program Adviser (Director of Undergraduate Studies) or the Undergraduate Curriculum Assistant (https://psychology.columbia.edu/content/elizabeth-walters/) in the departmental office. Program Adviser assignments (https://psychology.columbia.edu/content/advisors/) and contact information are provided on the departmental website. For additional information about program, faculty, peer, and pre-clinical advising, please see the Psychology Undergraduate Advising Resources website (https://psychology.columbia.edu/content/advising/).

Email Communication

The department maintains an e-mail distribution list with the UNIs of all declared majors and concentrators. Students are held responsible for information sent to their Columbia e-mail addresses. Students should read these messages from the department regularly and carefully. They are intended to keep students informed about deadlines, requirements, events, and opportunities. Prospective majors or concentrators who would like to be added to the e-mail distribution list should contact the Undergraduate Curriculum Assistant (uca@psych.columbia.edu) in the departmental office.

Guide to Course Numbers

Course numbers reflect the structure of the Psychology curriculum:

- The 1000-level comprises introductions to psychology, introductory research methods courses, and statistics. PSYC UN1001 The Science of Psychology is an introductory course with no prerequisites, which can serve as the prerequisite for most of the 2000-level courses. The 1400s contain the research methods laboratory courses, and the 1600s contain statistics courses; these two types are designed to prepare students to be able to understand, critique, and conduct the types of research found in many psychology and neuroscience labs.
- The 2000-level comprises lecture courses that are introductions to areas within psychology; most require PSYC UN1001 The Science of Psychology as a prerequisite.
- The 3000-level comprises more advanced and specialized undergraduate courses; most are given in a seminar format and require instructor permission.
- The 3900s are the courses providing research opportunities for undergraduates.
- The 4000-level comprises advanced seminars suitable for both advanced undergraduates and graduate students.

Subcategories within the 2000-, 3000-, and 4000-levels correspond to the three groups in our distribution requirement for undergraduate Psychology majors:

1. Perception and cognition (2200s, 3200s, and 4200s),
2. Psychobiology and neuroscience (2400s, 3400s, and 4400s), and
3. Social, personality, and abnormal psychology (2600s, 3600s, and 4600s).

Note that Barnard psychology courses do not follow the same numbering scheme.

Honors Program

The department offers a two-year Honors Program (https://psychology.columbia.edu/content/honors-program/), designed for a limited number of juniors and seniors interested in conducting original research. Beginning in the first term of junior year and continuing through senior year, students take PSYC UN3910 Honors Seminar and simultaneously participate in an honors research course (PSYC UN3920 Honors Research) under the supervision of a member of the department. Students make a formal presentation and complete an honors essay based on this research toward the end of their senior year.

To qualify for honors, students must take a total of 6 points beyond the number required for their major and satisfy all other requirements for the major. The additional 6 points may include the Honors Seminar and Honors Research courses. Interested students should apply at the end of their sophomore year, and are also required to identify and meet with a potential faculty mentor prior to applying. Instructions and an application form are available on the Honors Program page of the department website. Typically no more than 10% of graduating majors receive departmental honors in a given academic year.

Requirements for Admission to Graduate Programs in Psychology

Most graduate programs in psychology, including those in clinical psychology, require:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course title</th>
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<tbody>
<tr>
<td>PSYC UN1001</td>
<td>The Science of Psychology</td>
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</table>

A course in statistics such as one of the following:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course title</th>
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<tbody>
<tr>
<td>PSYC UN1610</td>
<td>Introductory Statistics for Behavioral Scientists</td>
</tr>
<tr>
<td>PSYC UN1660</td>
<td>Advanced Statistical Inference</td>
</tr>
<tr>
<td>STAT UN1001</td>
<td>Introduction to Statistical Reasoning</td>
</tr>
<tr>
<td>STAT UN1101</td>
<td>Introduction to Statistics</td>
</tr>
<tr>
<td>STAT UN1201</td>
<td>Calculus-Based Introduction to Statistics</td>
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</table>

A laboratory course in research methods such as one of the following:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course title</th>
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<tbody>
<tr>
<td>PSYC UN1420</td>
<td>RESEARCH METHODS - HUMAN BEHAVIOR</td>
</tr>
<tr>
<td>PSYC UN1450</td>
<td>Experimental Psychology: Social Cognition and Emotion</td>
</tr>
<tr>
<td>PSYC UN1455</td>
<td>Experimental Psychology: Social and Personality</td>
</tr>
<tr>
<td>PSYC UN1490</td>
<td>Experimental Psychology: Cognition and Decision Making</td>
</tr>
</tbody>
</table>

Students should also take a variety of more advanced undergraduate courses and seminars. Students interested in PhD programs in any area of psychology are very strongly encouraged to participate in a research
lab and enroll in PSYC UN3950 (http://bulletin.columbia.edu/search/?P=PSYC%20UN3950/) Supervised Individual Research. Students are also encouraged to apply for the Psychology Honors Program at the end of their sophomore year.

Students interested in clinical psychology should obtain experience working in a community service program in addition to supervised individual research experience. Students should consult the department’s pre-clinical adviser, Prof. E’mett McCaskill (https://psychology.columbia.edu/content/emett-mccaskill/), and attend the department’s pre-clinical advising events for more information. Additional resources to help prepare students for graduate study in psychology, and for careers in clinical psychology, are available on the Department of Psychology’s website (https://psychology.columbia.edu/).

Online Information
The Department of Psychology website (https://psychology.columbia.edu/) provides access to a wide variety of information for majors and prospective majors. Among other useful resources, students will find syllabi posted for most lecture and lab courses and for many advanced seminars. Students should read the on-line course syllabi prior to registering for psychology courses. For assistance in finding all necessary resources, students should contact the undergraduate curriculum assistant (uca@psych.columbia.edu).

Science Requirement
PSYC UN1001 The Science of Psychology, PSYC UN1010 Mind, Brain and Behavior (no longer offered), and any PSYC course in the 2200- or 2400-level may be used to fulfill the science requirement.

2600-level and some other psychology courses, including PSYC BC1001 Introduction to Psychology and other Barnard psychology courses, may not be used to fulfill the science requirement.

With prior departmental approval, 3- and 4-point courses numbered in the 32xx, 34xx, 42xx, and 44xx, and some additional courses, may partially fulfill the science requirement. For more detailed information regarding psychology courses that may be applied toward the science requirement, see Core Requirements (http://bulletin.columbia.edu/general-studies/undergraduates/degree-fulfillment/core/) in the General Studies bulletin.

Evening and Columbia Summer Courses
The department normally offers at least one lab course (currently PSYC UN1420 RESEARCH METHODS - HUMAN BEHAVIOR and PSYC UN1450 Experimental Psychology: Social Cognition and Emotion) in the late afternoon with evening labs. A number of other courses are occasionally offered in late afternoon and evening hours. No more than one quarter of the courses required for the major are normally available in the evening. Working students may find the wide variety of early morning (8:40 a.m.) classes, as well as Summer Session offerings, helpful in completing degree requirements.

Any course offered by the Psychology Department during the Summer Session is applicable toward the same major requirement(s) as the corresponding course of that same number offered during the academic year. For instance, PSYC S1001D The Science of Psychology meets the same major requirements as does PSYC UN1001 The Science of Psychology.

See Summer Courses (https://gs.columbia.edu/summer-courses/) for policies governing Summer Session courses.

Professors
Niall Bolger
Lila Davachi
Geraldine Downey
William Fifer (Psychiatry, Pediatrics)
Norma Graham
Carl Hart
Tory Higgins
Donald C. Hood
Nikolaus Kriegeskorte
Janet Metcalfe
Kevin Ochsner (Chair)
Shige Oishi (Visiting Professor)
Rae Silver (Barnard)
Daphna Shohamy
Herbert Terrace
Nim Tottenham
Sarah M.N. Woolley

Associate Professors
Valerie Purdie-Greenaway
Randy Auerbach (Psychiatry)

Assistant Professors
Mariam Aly
Christopher Baldassano
Robert Brotherton (Barnard)
Larisa Heiphetz
Micheal Wheaton (Barnard)
Sarah Canetta (Psychiatry)

Lecturers in Discipline
Katherine Fox-Glassman
Patricia Lindemann
Caroline Marvin
Alfredo Spagna

Adjunct Faculty
Tal Ben-Shahar
Jennifer Blaze
Helen Brew
Frances Champagne
James Curley
David Friedman
Karyn Gunnet-Shoval
Nora Isacoff
Tina Kao
Scott Kaufman
Karen Kelly
Svetlana Komissarouk
Victoria Leavitt
E’mett McCaskill
Michele Miozzo
Jenna Reinen
Svetlana Rosis
Eric Schoenberg
Ciara Torres
Guidelines for all Psychology Majors, Concentrators, and Interdepartmental Majors

Double Majors/Concentrations
All students attempting to complete double majors, double concentrations, or a combination of a major and a concentration should consult the college rules for double counting of courses (https://www.college.columbia.edu/news/committee-instruction-announces-updated-academic-policy/).

Overlapping Courses
Students cannot receive credit for two courses—one completed at Columbia and one at another institution (including Barnard)—if those courses have largely overlapping content. For example, PSYC UN1001 The Science of Psychology is similar in content to introductory psychology courses offered at many other institutions, including Barnard; only one such course will receive credit. Similarly, PSYC UN2630 Social Psychology and PSYC BC1138 Social Psychology have overlapping content; only one will receive credit. Please refer to the table of Overlapping Courses (https://psychology.columbia.edu/sites/default/files/content/bc_overlapping%2002.06.19.pdf) for a partial list of courses at Columbia and Barnard that are known to overlap.

Grade Requirements for the Major
A grade of C- or higher must be earned and revealed on the transcript in any Columbia or Barnard course, including the first, that is used to satisfy the major requirements. The grade of P is not accepted for credit towards the Psychology major (https://psychology.columbia.edu/content/psychology-major/), Psychology concentration (https://psychology.columbia.edu/content/psychology-concentration/), or Neuroscience and Behavior major (https://psychology.columbia.edu/content/neuroscience-behavior-major/). Courses taken on a Pass/Fail basis may not be used to satisfy the major or concentration requirements unless the grade of P is uncovered by the Registrar's deadline. Students may petition to have their P/D/F grades uncovered after the registrar's deadline for the following three courses only: PSYC UN1001 Science of Psychology, PSYC UN1010 Mind, Brain, & Behavior (no longer offered), and PSYC UN1610 Introductory Statistics for Behavioral Scientists. Courses taken only on a Pass/Fail basis may not be used to satisfy the major or concentration requirements under any circumstances.

Major Requirement Checklist
Prior to the start of their final semester, all seniors must submit a Major Requirement Checklist (https://psychology.columbia.edu/content/major-concentration-requirement-checklists/) showing all major courses they have taken and those they plan to take. The Psychology department evaluates each checklist to determine whether or not the course plan completes the major requirements and then notifies the student accordingly. If the student’s course plan changes, or if it does not satisfy the major requirements, a revised checklist must be submitted. Departmental approval of an accurate and up-to-date checklist will help ensure completion of all major requirements on time for graduation.

Major in Psychology
Please read Guidelines for all Psychology Majors, Concentrators, and Interdepartmental Majors (p. 4) above.

The Introductory Psychology Course
• PSYC UN1001 The Science of Psychology

A Statistics Course
Select one of the following:
• PSYC UN1610 Introductory Statistics for Behavioral Scientists
• PSYC UN1660 Advanced Statistical Inference
• STAT UN1001 Introduction to Statistical Reasoning
• STAT UN1101 Introduction to Statistics (formerly STAT W1111)
• STAT UN1201 Calculus-Based Introduction to Statistics (formerly STAT W1211)

A Research Methods Course
Select one of the following:
• PSYC UN1420 RESEARCH METHODS - HUMAN BEHAVIOR
• PSYC UN1450 Experimental Psychology: Social Cognition and Emotion
• PSYC UN1455 Experimental Psychology: Social and Personality
• PSYC UN1490 Experimental Psychology: Cognition and Decision Making

Majors are strongly advised to complete the statistics and research methods requirements, in that order, by the fall term of their junior year. Students are advised to verify the specific prerequisites for research methods courses, most of which require prior completion of a statistics course.

Distribution Requirement
One course (3 points or more) must be taken from each of the following three groups (in addition to the introductory, statistics, and research methods courses described above):
• Group I—Perception and cognition: courses numbered in the 2200s, 3200s, or 4200s.
• Group II—Psychobiology and neuroscience: courses numbered in the 2400s, 3400s, or 4400s. Also PSYC UN1010 Mind, Brain and Behavior (no longer offered).
• Group III—Social, personality, and abnormal: courses numbered in the 2600s, 3600s, or 4600s.

Beginning Fall 2019, Research Methods courses will no longer fulfill any of the Group distribution requirements.

Seminar Requirement
For students entering Columbia in Fall 2013 or later, one seminar course numbered in the 3000s or 4000s must be taken for 3 or more points.

Seminars are usually taken in the senior year as a culmination of the major program. Enrollment in seminar courses requires the instructor’s permission; students are advised to contact instructors at least one month prior to registration to request seminar admission. Note that honors and supervised individual research courses (PSYC UN3910 Honors Seminar, PSYC UN3920 Honors Research, and PSYC UN3950
(http://bulletin.columbia.edu/search/?P=PSYC%20UN3950/) Supervised Individual Research) will not meet the seminar requirement.

No course may be counted twice in fulfillment of the above major requirements, with the following exception: a seminar course may fulfill both the seminar requirement and a group requirement if it meets the criteria for both.

Additional Courses

Additional psychology courses ("electives") must be taken for a total of 30 points. As described below, these may include a limited number of research courses, transfer courses, and Barnard psychology courses not approved for specific requirements.

Research Credits

No more than 4 points of PSYC UN3950 (http://bulletin.columbia.edu/search/?P=PSYC%20UN3950/) Supervised Individual Research or PSYC UN3920 Honors Research may be taken in any one term, and no more than 8 points total of research and field work courses (PSYC UN3950 SUPERVISED INDIVIDUAL RESEARCH, PSYC BC3466 Field Work and Research Seminar: The Barnard Toddler Center, PSYC BC3473 Clinical Field Practicum, PSYC BC3592 Senior Research Seminar and PSYC BC3599 Individual Projects) may be applied toward the major. See below for further restrictions on applying Barnard courses toward the psychology major.

Barnard Courses

No more than 9 points (minus any transfer credits) from Barnard psychology courses may be applied as credit toward the major. The table of approved Barnard psychology courses (https://psychology.columbia.edu/content/approved-barnard-courses/) indicates which courses have been approved for specific requirements of the psychology major. Courses not on the approved list may only be applied toward a specific requirement with prior written approval from one of the directors of undergraduate studies (https://psychology.columbia.edu/content/advising/). Courses not on the approved list for a specific requirement may be applied as elective credit toward the 30 points for the major.

Beginning in Fall 2019, Barnard Lab courses will not count towards the Research Methods requirement of the Psychology Major or Concentration.

Transfer Credits

No more than 9 transfer credits (or combination of transfer and Barnard credits) will be accepted toward the psychology major. Approval of transfer credits on a student’s Entrance Credit Report toward general requirements for the B.A. degree does not grant approval of these credits toward the psychology major. Students must apply for written approval of transfer credit towards the major by submitting the Major Requirement Substitution Form (https://psychology.columbia.edu/sites/default/files/content/Major%20Substitution%20Form%20(Updated%20170611)_0.pdf). This form, along with additional information about transfer credits can be found on the Transfer Credit page of our website (https://psychology.columbia.edu/content/transfer-credit/). To be approved for the major, a course taken at another institution should be substantially similar to one offered by the department, the grade received must be a B- or better, and the course must have been taken within the past 8 years. As noted above, if two courses overlap in content, only one will be applied towards the major. With the exception of approved Barnard courses, students should consult with one of the directors of undergraduate studies (https://psychology.columbia.edu/content/advisors/) before registering for psychology courses offered outside the department.

Students who have completed an introductory psychology course at another institution prior to declaring a psychology major should consult with one of the directors of undergraduate studies (https://psychology.columbia.edu/content/advisors/) to verify whether or not this course meets departmental standards for major transfer credit. If transfer credit toward the major is not approved, the student must enroll in PSYC UN1001 The Science of Psychology or PSYC BC1001 Introduction to Psychology to complete this major requirement. Beginning in Fall 2019, the Psychology Department will accept a score of 5 on the AP Psychology exam, or a score of 7 on the Higher Level IB Psychology exam, to meet the Science of Psychology requirement. The AP/IB Psychology exam does not count as a course or toward a student’s points total for their program; students placing out of the Science of Psychology requirement in this way will need to take an additional course to fulfill the required number of courses or points for their program.

The College Board Advanced Placement (AP) statistics scores do not satisfy the statistics requirement. Students who have completed AP statistics may opt to take a more advanced statistics course to fulfill this requirement with the approval of one of the directors of undergraduate studies (https://psychology.columbia.edu/content/advising/).

Major in Neuroscience and Behavior

Please read Guidelines for all Psychology Majors, Concentrators, and Interdepartmental Majors (p. 4) above.

The department cosponsors an interdepartmental major in neuroscience and behavior with the Department of Biological Sciences. For assistance in planning the psychology portion of the neuroscience and behavior major, refer to the Program Planning Tips website (https://psychology.columbia.edu/content/program-planning-tips/) and use the appropriate major requirement checklist (https://psychology.columbia.edu/content/major-concentration-requirement-checklists/).

No course may be counted twice in fulfillment of the biology or psychology requirements described below. Most graduate programs in neuroscience also require one year of calculus, one year of physics, and chemistry through organic.

Required Courses

In addition to one year of general chemistry (or the high school equivalent), ten courses are required to complete the major—five from the Department of Biological Sciences and five from the Department of Psychology. For the definitive list of biology requirements, see the Department of Biological Sciences website (http://biology.columbia.edu/).

Required Biology Courses

1. BIOL UN2005 Introductory Biology I: Biochemistry, Genetics & Molecular Biology
2. BIOL UN2006 Introductory Biology II: Cell Biology, Development & Physiology
3. BIOL UN3004 Neurobiology I: Cellular and Molecular Neurobiology
4. BIOL UN3005 Neurobiology II: Development & Systems
5. One additional 3000- or 4000-level biology course from a list approved by the biology adviser (http://www.columbia.edu/cu/biology/pages/undergrad/cur/majors/neuro.html) to the program.

- BIOL UN3006 Physiology
- BIOL UN3022 Developmental Biology
- BIOL UN3025 Neurogenetics
- BIOL UN3031 Genetics
- BIOL UN3799 Molecular Biology of Cancer
- BIOL UN3034
- BIOL UN3041 Cell Biology
- BIOL UN3073 Cellular and Molecular Immunology
- BIOL UN3193
- BIOC UN3300 Biochemistry
- BIOC UN3501
- BIOL UN3310
- BIOL UN3404 Seminar on the Global Threat of Antimicrobial Resistance
- BIOC UN3512 Molecular Biology
- BIOL GU4008
- BIOL GU4082
- BIOL GU4300 Drugs and Disease
- BIOL GU4510
- BIOL GU4560
- BIOL GU4035
- BIOL GU4070
- BIOL GU4075 Biology at Physical Extremes
- BIOL GU4080 The Ancient and Modern RNA Worlds
- BIOL GU4260 Proteomics Laboratory
- BIOL GU4290 Biological Microscopy
- BIOL GU4305 Seminar in Biotechnology

4. One additional 2000- or 3000-level psychology lecture course from a list* approved by the psychology adviser (http://biology.columbia.edu/pages/neuroscience-and-behavior-major-requirements/) (https://psychology.columbia.edu/content/neuroscience-behavior-major/#/cuAccordionItem-1255) to the program:

- PSYC S2210Q Cognition: Basic Processes
- PSYC UN2215 Cognition and the Brain or PSYC S2215D Cognition and the Brain
- PSYC UN2220 Cognition: Memory and Stress
- PSYC W2225 Attention and Perception
- PSYC W2230 Perception and Sensory Processes
- PSYC UN2235 Thinking and Decision Making or PSYC S2235Q Thinking and Decision Making
- PSYC UN2250 Evolution of Cognition
- PSYC UN2280 Introduction to Developmental Psychology
- PSYC UN2420 Animal Behavior
- PSYC UN2430
- PSYC W2440 Language and the Brain
- PSYC UN2450 Behavioral Neuroscience or PSYC S2450Q Behavioral Neuroscience
- PSYC UN2460 Drugs and Behavior
- PSYC W2480 The Developing Brain
- PSYC UN2620 Abnormal Behavior or PSYC S2620Q

*Please make careful note of this list, as courses not listed here will not count towards the P4 requirement.

5. One advanced psychology seminar from a list approved by the psychology adviser (https://psychology.columbia.edu/content/neuroscience-behavior-major/#/cuAccordionItem-1257) to the program:

- PSYC W3225 The Wandering Mind: Psychological Approaches to Distraction
- PSYC W3250 Seminar in Space Perception (Seminar)/ PSYC G4230 Sensation and Perception (Seminar)
- PSYC W3265 Auditory Perception (Seminar)
- PSYC UN3270 Computational Approaches to Human Vision (Seminar)
- PSYC W3280 Seminar In Infant Development or PSYC S3280D Seminar In Infant Development
- PSYC S3285D The Psychology of Disaster Preparedness
- PSYC UN3290 Self: A Cognitive Exploration (Seminar)
- PSYC G4220 Cognition and Psychopathology (Seminar)
• PSYC GU4222 The Cognitive Neuroscience of Aging (Seminar)
• PSYC GU4223 Memory and Executive Function Thru the Lifespan
• PSYC GU4225 Consciousness and Attention (Seminar)
• PSYC GU4229 Attention and Perception
• PSYC G4230 Sensation and Perception (Seminar)
• PSYC GU4232
• PSYC GU4235 Special Topics in Vision (Seminar)
• PSYC GU4239
• PSYC G4250 Evolution of Intelligence, Cognition, and Language (Seminar)
• PSYC GU4270 Cognitive Processes (Seminar)
• PSYC G4272 Advanced Seminar in Language Development
• PSYC G4275 Contemporary Topics in Language and Communication (Seminar)
• PSYC GU4280 Core Knowledge (Seminar)
• PSYC GU4281
• PSYC G4285 Multidisciplinary Approaches to Human Decision Making (Seminar)
• PSYC GU4287 Decision Architecture
• PSYC GU4289
• PSYC S3410Q Seminar in Emotion
• PSYC S3425D Animals in Our Own Backyard: The Science of Observing Behavior
• PSYC W3435 Neurobiology of Reproductive Behavior (Seminar)
• PSYC W3440 Issues In Brain and Behavior (Seminar)
• PSYC UN3445 The Brain & Memory
• PSYC UN3450 Evolution of Intelligence and Consciousness (Seminar)/ PSYC G4450 The Evolution of Intelligence & Consciousness (Seminar)
• PSYC UN3460 Evolution of Behavior (Seminar)
• PSYC UN3470 Brain Evolution: Becoming Human (Seminar)
• PSYC UN3481
• PSYC S3483D The Dynamic Brain: Plasticity from Birth to Old Age
• PSYC W3484 Life Span Development: Theory and Methods
• PSYC UN3496 Neuroscience and Society or PSYC S3496Q Neuroscience and Society
• PSYC GU4420
• PSYC GU4430
• PSYC GU4435 Non-Mnemonic Functions of Memory Systems
• PSYC GU4440 Topics in Neurobiology and Behavior (Seminar) or PSYC S4440Q Topics in Neurobiology and Behavior
• PSYC G4460 Cognitive Neuroscience and the Media (Seminar)
• PSYC G4475 Neurobiology of Social Behavior
• PSYC GU4480 Psychobiology of Infant Development (Seminar)
• PSYC G4485 Affective Neuroscience (Seminar)
• PSYC GU4486
• PSYC GU4490
• PSYC G4492 Psychobiology of Stress
• PSYC G4495 Ethics, Genetics, and the Brain
• PSYC GU4498 Behavioral Epigenetics
• PSYC G4499 Behavioral Psychopharmacology (Seminar)
• PSYC UN3615 Children at Risk (Lecture)
• PSYC UN3620 Seminar in Developmental Psychopathology
• PSYC UN3624
• PSYC UN3625 Clinical Neuropsychology (Seminar) or PSYC S3625D Clinical Neuropsychology Seminar
• PSYC UN3680 Social Cognitive Neuroscience (Seminar)/ PSYC GU4685
• PSYC GU4627
• PSYC G4635 The Unconscious Mind (Seminar)
• PSYC GU4690 Social Factors and Psychopathology (Seminar)

Note: Students wishing to use a seminar course not listed above to meet the PS seminar requirement must contact their psychology adviser before enrolling to request permission for an exception. Generally speaking, permission for such exceptions is only granted when there is a compelling case related to the student's research or area of study. Students requesting permission to use a course not on this list must ensure that their substantive coursework in the seminar (generally their final paper) is on a neuroscience-focused topic.

Transfer Credit for Psychology Courses Taken Elsewhere

Students should consult a psychology adviser (https://psychology.columbia.edu/content/advising/) before registering for psychology courses offered outside the department. With the adviser's approval, one, and only one, course from another institution, including Barnard, may be applied toward the psychology portion of the Neuroscience and Behavior major. Students who wish to obtain credit for a course taken at Barnard or at another institution should complete the Major Requirement Substitution Form (https://psychology.columbia.edu/content/transfer-credit/). To be approved for the major, the course should be substantially similar to one offered by this department and approved for this major, and the grade received must be a C- or better if from Barnard, or B- or better if from another institution. Beginning in Fall 2019, the Psychology department will accept a score of 5 on the AP Psychology exam, or a score of 7 on the Higher Level IB Psychology exam, to meet the PSYC UN1001 The Science of Psychology requirement. The AP/IB Psychology exam does not count as a course or toward a student's points total for their program; students placing out of the Science of Psychology requirement in this way will need to take an additional course – approved by the Psychology adviser – to fulfill the required number of courses for their program.

Advanced Placement (AP) statistics scores will not satisfy the statistics/research methods requirement. Students who have completed AP Stats are encouraged to enroll in a 1400-level research methods course to fulfill this requirement.

Exceptions to Biology Requirements

Any exceptions must be approved in advance by a biology adviser and students must receive an email notification of that approval. Students may substitute Barnard College courses only with prior permission from an adviser.
Concentration in Psychology

Please read Guidelines for all Psychology Majors, Concentrators, and Interdepartmental Majors (p. 4) above.

A concentration in psychology requires a minimum of 18 points, including PSYC UN1001 The Science of Psychology and courses in at least two of the three groups listed under "Distribution Requirement" for the psychology major. Restrictions on research credits, Barnard credits, and transfer credits are modified from those of the psychology major as follows:

1. Only 4 points total may be applied toward the concentration from research or field-work courses, including: PSYC UN3950 (http://bulletin.columbia.edu/search/?P=PSYC%20UN3950/) Supervised Individual Research, PSYC UN3920 Honors Research PSYC BC3466 Field Work and Research Seminar; The Barnard Toddler Center, PSYC BC3473 Clinical Field Practicum, PSYC BC3592 Senior Research Seminar, and PSYC BC3599 Individual Projects;
2. Only 5 points from Barnard (including PSYC BC1001 Introduction to Psychology) may be applied toward the concentration.
3. Only 5 points total (including any Barnard points) from approved psychology courses taken outside the department may be applied toward the concentration.

*Beginning Fall 2019, Barnard Lab courses will not count towards the Research Methods requirement of the Psychology Major or Concentration.

Except as noted above, other regulations outlined in the Psychology Major section regarding grades, transfer credits, and overlapping courses also apply toward the concentration.

PSYC UN1001 The Science of Psychology. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Enrollment may be limited. Attendance at the first two class periods is mandatory.

Prerequisites: BLOCKED CLASS. EVERYONE MUST JOIN WAITLIST TO BE ADMITTED
Broad survey of psychological science including: sensation and perception; learning, memory, intelligence, language, and cognition; emotions and motivation; development, personality, health and illness, and social behavior. Discusses relations between the brain, behavior, and experience. Emphasizes science as a process of discovering both new ideas and new empirical results. PSYC UN1001 serves as a prerequisite for further psychology courses and should be completed by the sophomore year.

PSYC UN1420 RESEARCH METHODS - HUMAN BEHAVIOR. 4 points.
Attendance at the first class is mandatory. Fee: $70.

Prerequisites: PSYC W1001 or PSYC W1010, and a statistics course (PSYC W1610 or the equivalent), or the instructor's permission.
Prerequisites: (PSYC UN1001 or PSYC UN1010) and a statistics course (PSYC UN1610 or the equivalent), or the instructor's permission.
Corequisites: PSYC UN1421 Introduction to the techniques of research employed in the study of human behavior. Students gain experience in the conduct of research, including design of simple experiments, observation and measurement techniques, and the analysis of behavioral data. $70 course fee

PSYC UN1421 Experimental Psychology: Human Behavior (Lab). 0 points.
Limited enrollment in each section.
Corequisites: PSYC UN1420
Required lab section for PSYC UN1420.

PSYC UN1450 Experimental Psychology: Social Cognition and Emotion. 4 points.
Attendance at the first class is essential. Priority given to psychology majors. Fee: $70.

Prerequisites: PSYC UN1001 or PSYC UN1010 and a statistics course (PSYC UN1610 or the equivalent), or the instructor's permission.
Corequisites: PSYC UN1451
An introduction to research methods employed in the study of human social cognition and emotion. Students gain experience in the design and conduct of research, including ethical issues, observation and measurement techniques, interpretation of data, and preparation of written and oral reports.

PSYC UN1451 Experimental Psychology: Social Cognition and Emotion (Lab). 0 points.
Limited enrollment in each section.
Corequisites: PSYC UN1450
Required Lab for PSYC UN1450.

PSYC UN1455 Experimental Psychology: Social and Personality. 4 points.
Fee: $70.

Prerequisites: PSYC UN1001 or PSYC UN1010 and a statistics course (PSYC UN1610 or the equivalent), or the instructor's permission.
Corequisites: PSYC UN1456
Methodology and procedures of personality and social psychological research and exercises in data analysis and research design. Ethical issues in psychological research. Statistical concepts such as parameter estimation and testing, measurement reliability and validity, merits and limitations of correlational and experimental research designs, and empirical evaluation of theories. Note: Fee: $70

PSYC UN1456 Experimental Psychology: Social and Personality (Lab). 0 points.
Limited enrollment in each section.
Required lab for PSYC UN1455.

PSYC UN1490 Experimental Psychology: Cognition and Decision Making. 4 points.
Corequisites: PSYC UN1491
Prerequisites: Science of Psychology (PSYC 1001) or Mind, Brain, & Behavior (PSYC 1010) or equivalent intro psych course, plus an introductory statistics course. Introduces research methods employed in the study of the cognitive and social determinants of thinking and decision making. Students gain experience in the conduct of research, including: design of simple experiments; observation and preference elicitation techniques; the analysis of behavioral data, considerations of validity, reliability, and research ethics; and preparation of written and oral reports.

Note: Fee: $70. Attendance at the first class is essential.
PSYC UN1491 Experimental Psychology: Cognition and Decision Making Lab. 0 points.
Prerequisites: (PSYC UN1001 or PSYC UN1010) and (PSYC UN1610 or STAT UN1001 or STAT UN1101 or STAT UN1201) Or equivalent introductory psychology and statistics courses.
Corequisites: PSYC UN1490
Required lab for PSYC UN1490

PSYC UN1610 Introductory Statistics for Behavioral Scientists. 4 points.
Lecture and lab. Priority given to psychology majors. Fee $70.
Prerequisites: PSYC UN1001 or PSYC UN1010 Recommended preparation: one course in behavioral science and knowledge of high school algebra.
Corequisites: PSYC UN1611
Introduction to statistics that concentrates on problems from the behavioral sciences.

PSYC UN1611 Introductory Statistics for Behavioral Scientists (Lab). 0 points.
Limited enrollment in each section.
Corequisites: PSYC UN1610
Required lab section for PSYC UN1610.

PSYC UN2220 Cognition: Memory and Stress. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Attendance at the first class is mandatory.
Prerequisites: PSYC UN1001 or PSYC UN1010 or the instructor’s permission.
Memory, attention, and stress in human cognition.

PSYC UN2235 Thinking and Decision Making. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Prerequisites: an introductory course in psychology.
Models of judgment and decision making in both certain and uncertain or risky situations, illustrating the interplay of top-down (theory-driven) and bottom-up (data-driven) processes in creating knowledge. Focuses on how individuals do and should make decisions, with some extensions to group decision making and social dilemmas.

PSYC UN2250 Evolution of Cognition. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Prerequisites: PSYC UN1001 or PSYC UN1010 or the instructor’s permission.
A systematic review of different forms of cognition as viewed in the context of the theory of evolution. Specific topics include the application of the theory of evolution to behavior, associative learning, biological constraints on learning, methods for studying the cognitive abilities of animals, levels of representation, ecological influences on cognition, and evidence of consciousness in animals.

PSYC UN2280 Introduction to Developmental Psychology. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Enrollment may be limited. Attendance at the first two classes is mandatory.
Prerequisites: PSYC UN1001 or PSYC UN1010 or the equivalent.
Introduction to the scientific study of human development, with an emphasis on psychobiological processes underlying perceptual, cognitive, and emotional development.

PSYC UN2420 Animal Behavior. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Prerequisites: PSYC UN1001 or PSYC UN1010 or a college-level biology course, or the instructor’s permission.
Introduction to behavioral systems, evolution of behavioral traits, and analysis of behavior. Topics include reproductive and social behavior, mating systems, competition, cooperation, communication, learning, development and the interplay of genes and environment.

PSYC UN2450 Behavioral Neuroscience. 3 points.
CC/GS: Partial Fulfillment of Science Requirement
Prerequisites: PSYC UN1001 or PSYC UN1010 or the instructor’s permission.
Examines the principles governing neuronal activity, the role of neurotransmitter systems in memory and motivational processes, the presumed brain dysfunctions that give rise to schizophrenia and depression, and philosophical issues regarding the relationship between brain activity and subjective experience.

PSYC UN2610 Introduction To Personality. 3 points.
Not offered during 2019-20 academic year.
Prerequisites: an introductory psychology course.
A survey of the important methods, findings, and theories in the field of personality research.

PSYC UN2620 Abnormal Behavior. 3 points.
Prerequisites: An introductory psychology course.
Examines definitions, theories, and treatments of abnormal behavior.

PSYC UN2630 Social Psychology. 3 points.
Surveys important methods, findings, and theories in the study of social influences on behavior. Emphasizes different perspectives on the relation between individuals and society.

PSYC UN2670 Social Development. 3 points.
Prerequisites: PSYC UN1001 or PSYC UN1010, or the equivalent.
This lecture course introduces students to the study of typical human social development with a particular focus on genetic, familial and peer influences on the development of social behaviors during early childhood.

PSYC UN3270 Computational Approaches to Human Vision (Seminar). 3 points.
This course will be offered in Fall 2016.
Prerequisites: some background in psychology and/or neurophysiology (e.g., PSYC UN1001, PSYC UN1010, PSYC UN2230, PSYC UN2450; BIOL UN3004 or BIOL UN3005) is desirable. See instructor if you have questions about your background. Some background in mathematics and computer science (e.g., calculus or linear algebra, a programming language) is highly recommended.
Study of human vision--both behavioral and physiological data--within a framework of computational and mathematical descriptions. Please contact Prof. Graham by e-mail (nvg1@columbia.edu) if you are interested in this course.
PSYC UN3445 The Brain & Memory. 4 points.
Prerequisites: (PSYC UN1010) or Equivalent introductory course in neuroscience or cognitive psychology and the instructor’s permission
This seminar will give a comprehensive overview of episodic memory research: what neuroimaging studies, patient studies, and animal models have taught us about how the brain creates, stores, and retrieves memories.

PSYC UN3450 Evolution of Intelligence and Consciousness (Seminar). 3 points.
Prerequisites: PSYC UN1001 or PSYC UN1010, and the instructor’s permission.
A systematic review of the implications of Darwin’s theory of evolution and Freud’s theory of the unconscious for contemporary studies of animal and human cognition.

PSYC UN3615 Children at Risk (Lecture). 4 points.
Prerequisites: PSYC UN1010, PSYC UN2280, PSYC UN2620, or PSYC UN2680, and the instructor’s permission.
Considers contemporary risk factors in children’s lives. The immediate and enduring biological and behavioral impact of risk factors.

PSYC UN3625 Clinical Neuropsychology (Seminar). 3 points.
Prerequisites: an introductory course in neuroscience, like PSYC UN1010 or PSYC UN2450, and the instructor’s permission.
Analysis of the assessment of physical and psychiatric diseases impacting the central nervous system, with emphasis on the relationship between neuropathology and cognitive and behavioral deficits.

PSYC UN3690 The Self in Social Context (Seminar). 4 points.
Prerequisites: PSYC UN1001 or UN1010, or the equivalent, and the instructor’s permission.
This course centers on understanding the self embedded in the social context. We will integrate knowledge from various areas of psychology (developmental, cognitive, social cognition) with a main focus in social psychology. This course will provide the opportunity to gain an understanding of research in the following areas: the development of self in a social context, the relationship between the self and the broader socio-cultural context, the impact of self-involvement on social/cognitive processes, and contemporary research on individual differences.

PSYC UN3910 Honors Seminar. 1 point.
Year-long course. Students receive credit only after both terms have been completed. May be repeated for additional credit.
Prerequisites: open to students in the honors program only.
Discussion of a variety of topics in psychology, with particular emphasis on recent developments and methodological problems. Students propose and discuss special research topics.

PSYC UN3920 Honors Research. 1-4 points.
May be repeated for additional credit.
Prerequisites: open to students in the honors program only.
Except by special permission of the director of undergraduate studies, no more than 4 points of individual research may be taken in any one term. This includes both PSYC UN3950 and PSYC UN3920. No more than 12 points of PSYC UN3920 may be applied toward the honors program in psychology. Special research topics arranged with the instructors of the department leading toward a senior honors paper.

PSYC UN3950 SUPERVISED INDIVIDUAL RESEARCH. 0 points.
1-4 points. May be repeated for credit. Prerequisites: the instructor’s permission. Except by special permission of the director of undergraduate studies, no more than 4 points of individual research may be taken in any one term. This includes both PSYC UN3950 and PSYC UN3920. No more than 8 points of PSYC UN3950 may be applied toward the psychology major, and no more than 4 points toward the concentration. Readings, special laboratory projects, reports, and special seminars on contemporary issues in psychological research and theory

PSYC GU4222 The Cognitive Neuroscience of Aging (Seminar). 4 points.
Prerequisites: courses in introductory psychology and cognitive psychology; and the instructor’s permission.
Comprehensive overview of various conceptual and methodologic approaches to studying the cognitive neuroscience of aging. The course will emphasize the importance of combining information from cognitive experimental designs, epidemiologic studies, neuroimaging, and clinical neuropsychological approaches to understand individual differences in both healthy and pathological aging.

PSYC GU4223 Memory and Executive Function Thru the Lifespan. 4 points.
Prerequisites: the instructor’s permission, plus PSYC W1001 or PSYC W1010, or the equivalent. Optimal preparation will include some background in experimental design and statistics.
Memory and executive processing are critical cognitive functions required for successfully navigating everyday life. In lifespan studies, both exhibit relatively long developmental trajectories followed by stasis and then relative decline in old age. Yet, neither memory nor executive function is a unitary construct. Rather, each is comprised of separable components that may show different developmental trajectories and declines or maintenance at older ages. Moreover, memory is malleable and is a reconstruction of past experience, not an exact reproduction. We will discuss a range of topics related to the development, maintenance and potential decline in memory and executive function from infancy through old age.

PSYC GU4235 Special Topics in Vision (Seminar). 3 points.
This course will be offered in Fall 2016. May be repeated for additional credit.
Prerequisites: the instructor’s permission. Please contact Prof. Graham by e-mail (nvg1@columbia.edu) if you are interested in this course.

PSYC GU4265 Auditory Perception. 4 points.
Prerequisites: PSYC UN1010 or equivalent; background in statistics/research methods recommended
How does the human brain make sense of the acoustic world? What aspects of auditory perception do humans share with other animals? How does the brain perform the computations necessary for skills such as sound localization? How do we focus our auditory attention on one voice in a crowd? What acoustic cues are important for speech perception? How is music perceived? These are the types of questions we will address by studying the basics of auditory perception from textbook readings and reviews, and reading classic and current literature to understand scientific progress in the field today.
PSYC GU4270 Cognitive Processes (Seminar). 3 points.
Prerequisites: For undergraduates: one course in cognitive psychology or
cognitive neuroscience, or the equivalent, and the instructor’s permission.
Metacognition and control processes in human cognition. Basic issues
include the cognitive mechanisms that enable people to monitor what
they know and predict what they will know, the errors and biases involved
in self-monitoring, and the implications of metacognitive ability for
people’s self-determined learning, behavior, and their understanding of
self.

PSYC GU4280 Core Knowledge (Seminar). 4 points.
Prerequisites: For undergraduates: courses in introductory psychology,
cognitive or developmental psychology, and the instructor’s permission.
Core Knowledge explores the origins and development of knowledge
in infants and children, with an additional emphasis on evolutionary
cognition. In this course, we will examine evidence from cognitive
psychology, developmental psychology, comparative psychology,
neuroscience, and linguistics to look at the child’s conception of objects,
number, space, language, agency, morality and the social world. We
will look at which aspects of knowledge are uniquely human, which are
shared with other animals, and how this knowledge changes as children
develop.

PSYC GU4440 Topics in Neurobiology and Behavior (Seminar). 3 points.
Prerequisites: the instructor’s permission.
Examines current topics in neurobiology and behavior.

PSYC GU4480 Psychobiology of Infant Development (Seminar). 4 points.
Prerequisites: PSYC W1001 or W1010, a course in developmental
psychology, and the instructor’s permission.
The focus of the seminar is on human development during the fetal
period and early infancy. We will examine the effects of environmental
factors on perinatal perceptual, cognitive, sensory-motor, and
neurobehavioral capacities, with emphasis on critical conditions involved
in both normal and abnormal brain development. Other topics include
acute and long term effects of toxic exposures (stress, smoking, and
alcohol) during pregnancy, and interaction of genes and the environment
in shaping the developing brain of "high-risk" infants, including premature
infants and those at risk for neurodevelopmental disorders such as
Sudden Infant Death Syndrome.

PSYC GU498 Behavioral Epigenetics. 4 points.
Prerequisites: basic background in neurobiology (for instance PSYC
UN1010, UN2450, UN2460, UN2480, and GU4499) and the instructor’s
permission.
This course will provide an overview of the field of epigenetics, with
an emphasis on epigenetic phenomena related to neurodevelopment,
behavior and mental disorders. We will explore how epigenetic
mechanisms can be mediators of environmental exposures and, as
such, contribute to psychopathology throughout the life course. We will
also discuss the implications of behavioral epigenetic research for the
development of substantially novel pharmacotherapeutic approaches and
preventive measures in psychiatry.

PSYC GU4615 The Psychology of Culture and Diversity (Seminar). 4 points.
Prerequisites: the instructor’s permission; some basic knowledge of
social psychology is desirable.
A comprehensive examination of how culture and diversity shape
psychological processes. The class will explore psychological and
political underpinnings of culture and diversity, emphasizing social
psychological approaches. Topics include culture and self, culture and
social cognition, group and identity formation, science of diversity,
stereotyping, prejudice, and gender. Applications to real-world
phenomena discussed.

PSYC GU4635 The Unconscious Mind (Seminar). 4 points.
Prerequisites: the instructor’s permission; some basic knowledge of
social psychology is desirable.
Discussion of the unconscious mind from the perspective of social
cognition, with an emphasis on both theoretical and empirical
background, as well as current issues in measuring automatic
processing. Topics include: implicit memory systems; unconscious
attitudes, goals and behavior, emotions, and decision making; the
activation and deactivation of knowledge systems; and priming.

PSYC GU4645 Culture, Motivation, and Prosocial Behavior. 4 points.
Prerequisites: Some knowledge of Research Methods, Statistics, and
Social Psychology, plus Instructor’s Permission.
Reviews and integrates current research on three important
topics of social psychology: culture, motivation, and prosocial
behavior. Discussions and readings will cover theoretical principles,
methodological approaches, and the intersection of these three topics.
Students will write a personal research proposal based on the theories
presented during the seminar.

PSYC GU4672 Moral Psychology. 4 points.
Prerequisites: Two courses in psychology, including at least one course
with a focus on social and/or developmental psychology, and permission
of the instructor.
Review of theories and current research on moral cognition and
behavior. Topics include definitions of morality, the development of moral
cognition, the role that other aspects of human experience (e.g., emotion,
intentions) play in moral judgments, and the relationship between moral
psychology and other areas of study (e.g., religious cognition, prejudice
and stereotyping, the criminal justice system).

PSYC GU4682 FAQs about Life: Applications of Psychological Research
to Everyday Experiences. 4 points.
Prerequisites: Two courses in psychology, with at least one focusing on
statistics and/or research methods in psychology, and permission of the
instructor.
Review of basic psychological research that is relevant to questions
people frequently encounter during the course of everyday life. Potential
topics for this seminar include research on decision-making, emotion,
and/or interpersonal relationships.

PSYC GU4690 Social Factors and Psychopathology (Seminar). 3 points.
Prerequisites: the instructor’s permission.
Reviews and integrates current research on the role of social factors in
psychopathology. The immediate and long-term effects of chronic and
traumatic stressors originating outside the family (e.g., natural disasters,
chronic poverty) and inside the family (e.g., family violence, divorce,
parental psychopathology) on psychopathology.