PSYCHOLOGY MAJOR, B.S.

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In the undergraduate study of psychology, the emphasis is on a broad acquaintance with the behavioral sciences, not specialization. The subject matter is preparatory to a career in psychology either in basic research and teaching, or in any number of professional applications to various human problems. A psychology major may prove valuable to those planning other professional careers such as medicine, law, education, or business, as well as to those who seek a broad cultural background in the behavioral sciences.

Department Programs

Majors
- Neuroscience Major, B.S. (http://catalog.unc.edu/undergraduate/programs-study/neuroscience-major-bs/)
- Psychology Major, B.A. (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-ba/)
- Psychology Major, B.S. (p. 1)

Minors
- Cognitive Science Minor (http://catalog.unc.edu/undergraduate/programs-study/cognitive-science-minor/)
- Neuroscience Minor (http://catalog.unc.edu/undergraduate/programs-study/neuroscience-minor/)

Graduate Programs
- M.A. in Psychology (http://catalog.unc.edu/graduate/schools-departments/psychology-neuroscience/)
- Ph.D. in Psychology (http://catalog.unc.edu/graduate/schools-departments/psychology-neuroscience/)

Student Learning Outcomes
Upon completion of the psychology (B.A., B.S.) and/or neuroscience (B.S.) programs, students will attain the following:
- Knowledge Base: Demonstrate knowledge of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology and/or neuroscience, including its links to other social science disciplines
- Research Methods: Apply basic research methods in psychology and/or neuroscience, including research design, data analysis, and interpretation
- Critical Thinking Skills: Demonstrate critical and creative thinking, skeptical inquiry, and when possible, the scientific approach to solve problems related to behavior, mental processes and the biological mechanisms which underlie behavior and mental processes
- Application: Apply psychological and/or neuroscience principles to personal, social, and organizational issues
- Values: Demonstrate use of empirical evidence, tolerate ambiguity, act ethically, be mindful of diversity and reflect other values that are the underpinnings of psychology and/or neuroscience as a science

Requirements
In addition to the program requirements, students must
- earn a minimum final cumulative GPA of 2.000
- complete a minimum of 45 academic credit hours earned from UNC–Chapel Hill courses
- take at least half of their major core requirements (courses and credit hours) at UNC–Chapel Hill
- earn a minimum cumulative GPA of 2.000 in the major core requirements. Some programs may require higher standards for major or specific courses.

For more information, please consult the degree requirements section of the catalog (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements/#degreerequirements).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 101</td>
<td>General Psychology (with a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td>Core Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Statistical Principles of Psychological Research</td>
<td>4</td>
</tr>
<tr>
<td>or PSYC 215</td>
<td>Applied Data Science in Psychology and Neuroscience</td>
<td></td>
</tr>
<tr>
<td>PSYC 270</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>One course below 400 from each of the following program areas:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Behavioral Integrative Neuroscience:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSCI 222</td>
<td>Learning</td>
<td>1, H</td>
</tr>
<tr>
<td>NSCI 225</td>
<td>Sensation and Perception</td>
<td>1, H</td>
</tr>
<tr>
<td>PSYC 220</td>
<td>Biopsychology</td>
<td>1, H</td>
</tr>
<tr>
<td>Cognitive:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSCI 225</td>
<td>Sensation and Perception</td>
<td>1, H</td>
</tr>
</tbody>
</table>
Total Hours

Remaining

from a department other than psychology

One of:

CHEM 241H + 245L, CHEM 262 + 262L or CHEM 262H + 263L

four-credit hour non-psychology course from the Allied Science list

At least 3 additional three-credit hour non-psychology courses which
must come from the Allied Science list (see below). Additionally, 1
four-credit hour non-psychology course from the Allied Science list
(see below) or one of the following combinations: CHEM 241 + 241L,
CHEM 241H + 245L, CHEM 262 + 262L or CHEM 262H + 263L

One additional nonhistorical social and behavioral sciences
Approaches (http://catalog.unc.edu/undergraduate/general-
education-curriculum-degree-requirements/) course, which must be
drawn from a department other than psychology

Remaining General Education (http://catalog.unc.edu/
undergraduate/general-education-curriculum-degree-requirements/) course
requirements and enough additional hours to accumulate 120
academic hours

Total Hours

Additional Requirements

BIOL 101 Principles of Biology and Introductory Biology Laboratory
& 101L

One of:

CHEM 101 General Descriptive Chemistry I
& 101L and Quantitative Chemistry Laboratory I

PHYS 114 General Physics I: For Students of the Life Sciences

PHYS 118 Introductory Calculus-based Mechanics and Relativity

MATH 231 Calculus of Functions of One Variable

One of:

COMP 101 Fluency in Information Technology

COMP 110 Introduction to Programming and Data Science

COMP 116 Introduction to Scientific Programming

MATH 232 Calculus of Functions of One Variable II

At least 3 additional three-credit hour non-psychology courses which
must come from the Allied Science list (see below). Additionally, 1
four-credit hour non-psychology course from the Allied Science list
(see below) or one of the following combinations: CHEM 241 + 241L,
CHEM 241H + 245L, CHEM 262 + 262L or CHEM 262H + 263L

One additional nonhistorical social and behavioral sciences
Approaches (http://catalog.unc.edu/undergraduate/general-
education-curriculum-degree-requirements/) course, which must be
drawn from a department other than psychology

Remaining General Education (http://catalog.unc.edu/
undergraduate/general-education-curriculum-degree-requirements/) course
requirements and enough additional hours to accumulate 120
academic hours

Total Hours

\( ^H \) Honors version available. An honors course fulfills the same
requirements as the nonhonors version of that course. Enrollment
and GPA restrictions may apply.

\( ^1 \) NSCI 225 can meet either the behavioral neuroscience or cognitive
requirement, but not both.

All majors must complete PSYC 101 and at least six psychology and/or
neuroscience courses above PSYC 101 with a grade of C (not C-) or better
(from the core requirements listed above).

Students planning to enter graduate programs in psychology are urged
to include a research-intensive course such as PSYC 395, PSYC 530,
or PSYC 693H and PSYC 694H in their program and as many courses
numbered 400 and above as possible.

Details of the student's program may be worked out in consultation with
college and departmental advisors.

### Upper Level Courses for Special Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 404</td>
<td>Clinical Psychopharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Human Memory</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 433</td>
<td>Behavioral Decision Theory</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 438</td>
<td>Research Topics in the Psychology of Language</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 461</td>
<td>Cognitive Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 469</td>
<td>Evolution and Development of Biobehavioral Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 504</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 517</td>
<td>Addiction</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 525</td>
<td>Psychological Archival Data Science</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 528</td>
<td>Clinical Research: Design, Analyze, Disseminate</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 530</td>
<td>Design and Interpretation of Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 531</td>
<td>Tests and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 532</td>
<td>Quantitative Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 533</td>
<td>The General Linear Model in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 534</td>
<td>Introduction to Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 559</td>
<td>Applied Machine Learning in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Allied Science Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 143</td>
<td>Human Evolution and Adaptation</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 148</td>
<td>Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 217</td>
<td>Human Biology in Comparative Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 298</td>
<td>Biological Anthropology Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 315</td>
<td>Human Genetics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 318</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 412</td>
<td>Paleoanthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 413</td>
<td>Laboratory Methods: Archaeobotany</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 414</td>
<td>Laboratory Methods: Human Osteology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 415</td>
<td>Laboratory Methods: Zooarchaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 416</td>
<td>Bioarchaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 423</td>
<td>Written in Bone: CSI and the Science of Death Investigation from Skeletal Remains</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 437</td>
<td>Evolutionary Medicine</td>
<td>3</td>
</tr>
</tbody>
</table>
ANTH 471 Biocultural Perspectives on Maternal and Child Health 3
BIOC 107 Introduction to Biochemistry 4
BIOC 108 Introduction to Biochemistry 4
BIOL — Any course above BIOL 101, except BIOL 195, BIOL 290, BIOL 291, BIOL 292, BIOL 293, BIOL 294, BIOL 295, BIOL 296, BIOL 395, BIOL 410, BIOL 490, and BIOL 495
BMME 150 Introduction to Materials Science 3
BMME 207 Biomedical Electronics 4
BMME 301 Human Physiology: Electrical Analysis 4
BMME 315 Biotransport 3
BMME 335 Biomaterials 3
BMME 385 Biomedical Instrumentation 3
BMME 405 Biomechanics of Movement 3
BMME 420 Introduction to Synthetic Biology 3
BMME 435 Biological Physics 3
BMME 445 Systems Neuroscience 3
BMME 455 Biofluid Mechanics 3
BMME 470 Analysis of Tissue Engineering Technologies 3
BMME 485 Biotechnology 3
BMME 505 Skeletal Biomechanics 3
BIOS — Any course above BIOS 500H, except BIOS 540, BIOS 543, BIOS 690, BIOS 691, BIOS 693H, BIOS 694H
CHEM — Any course above CHEM 101 except CHEM 190, CHEM 291, CHEM 395, CHEM 396, CHEM 397, CHEM 410, and CHEM 692H
COMP — Any course above COMP 116, except COMP 185, COMP 190, COMP 380, COMP 390, and COMP 393
ENEC 108 Our Energy and Climate Crises: Challenges and Opportunities 4
ENEC 202 Introduction to the Environmental Sciences 4
ENEC 220 North Carolina Estuaries: Environmental Processes and Problems 3
ENEC 222 Estuarine and Coastal Marine Science 4
ENEC 256 Mountain Biodiversity 4
ENEC 304 Restoration Ecology 4
ENEC 324 Water in Our World: Introduction to Hydrologic Science and Environmental Problems 3
ENEC 352 Marine Fisheries Ecology 3
ENEC 403 Environmental Chemistry Processes 3
ENEC 406 Atmospheric Processes II 4
ENEC 410 Earth Processes in Environmental Systems 4
ENEC 411 Oceanic Processes in Environmental Systems 4
ENEC 415 Environmental Systems Modeling 3
ENEC 416 Environmental Meteorology 3
ENEC 431 Sustainable Cities: Exploring Ways of Making Cities More Sustainable 3
ENEC 450 Biogeochemical Processes 4
ENEC 462 Ecosystem Management 3
ENEC 471 Human Impacts on Estuarine Ecosystems 4
ENEC 479 Landscape Analysis 3
ENEC 489 Ecological Processes in Environmental Systems 4
ENEC 530 Principles of Climate Modeling 3
ENEC 562 Statistics for Environmental Scientists 4
ENEC 567 Ecological Analyses and Application 3
ENVR 205 Engineering Tools for Environmental Problem Solving 3
ENVR 403 Environmental Chemistry Processes 3
ENVR 411 Laboratory Techniques and Field Measurements 3
ENVR 412 Ecological Microbiology 3
ENVR 413 Limnology 3
ENVR 416 Aerosol Physics and Chemistry 4
ENVR 419 Chemical Equilibria in Natural Waters 3
ENVR 421 Environmental Health Microbiology 3
ENVR 425 Introduction to Health Physics: Radiation and Radiation Protection 3
ENVR 430 Health Effects of Environmental Agents 3
ENVR 442 Biochemical Toxicology 3
ENVR 451 Elements of Chemical Reactor Engineering 3
ENVR 453 Groundwater Hydrology 3
ENVR 468 Temporal GIS and Space/Time Geostatistics for the Environment and Public Health 3
ENVR 470 Environmental Risk Assessment 3
ENVR 472 Quantitative Risk Assessment in Environmental Health Microbiology 3
ENVR 514 Measurement of NOx, O3, and Volatile Organic Compounds 3
ENVR 552 Organic Geochemistry 3
ENVR 575 Global Climate Change: Science, Impacts, Solutions 3
ENVR 630 Systems Biology in Environmental Health 3
ENVR 661 Scientific Computation I 3
ENVR 662 Scientific Computation II 3
ENVR 666 Numerical Methods 3
ENVR 668 Methods of Applied Mathematics I 3
ENVR 669 Methods of Applied Mathematics II 3
ENVR 671 Environmental Physics I 3
ENVR 672 Environmental Physics II 3
ENVR 675 Air Pollution, Chemistry, and Physics 3
EXSS 175 Human Anatomy 3
EXSS 175 Human Anatomy and Human Anatomy Laboratory 3
EXSS 275L and EXSS 275L
EXSS 276 Human Physiology 3
EXSS 376 Physiological Basis of Human Performance 3
EXSS 380 Neuromuscular Control and Learning 3
EXSS 385 Biomechanics of Sport 3
EXSS 475 Functional Anatomy 3
EXSS 576 Exercise Endocrinology 3
EXSS 580 Neuromechanics of Human Movement 3
GEOG 110 The Blue Planet: An Introduction to Earth’s Environmental Systems H
GEOG 111 Weather and Climate 3
GEOG 212 Environmental Conservation and Global Change 3
GEOG 253 Introduction to Atmospheric Processes 4
GEOG 391 Quantitative Methods in Geography 3
Sample Plan of Study

Sample plans can be used as a guide to identify the courses required to complete the major and other requirements needed for degree completion within the expected eight semesters. The actual degree plan may differ depending on the course of study selected (second major, minor, etc.). Students should meet with their academic advisor to create a degree plan that is specific and unique to their interests. The sample plans represented in this catalog are intended for first-year students entering UNC-Chapel Hill in the fall term. Some courses may not be offered every term.

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 101 &amp; 101L</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101 or PHYS 114</td>
<td>4</td>
</tr>
<tr>
<td>MATH 231</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PSYC 210 H</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 215</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 220 or NSCI 222</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 230 or NSCI 225</td>
<td>3</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 270</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 293 or NSCI 493</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 230 or NSCI 225</td>
<td>3</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 395 or NSCI 693H</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 395 or NSCI 693H</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 395 or NSCI 693H</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total**

62-63

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H: Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.
Special Opportunities in Psychology and Neuroscience

Honors in Psychology and Neuroscience

Any major in the program with an overall grade point average of 3.3 or higher and prior research experience in a faculty lab (e.g., PSYC 395 or NSCI 395) is eligible for enrollment in the departmental senior honors program. Each candidate for honors participates in a two-semester course sequence (PSYC 693H and PSYC 694H or NSCI 693H and NSCI 694H) and carries out independent research in an area of the student’s choice under the guidance of a psychology and neuroscience faculty member. Please see the department website for the application form (https://psychology.unc.edu/honors-program/) and additional information.

Departmental Involvement

Membership in the Psychology Club (https://heellife.unc.edu/organization/psychology-club/) is open to any interested psychology major. There is no minimum grade point average requirement. The club meets frequently to discuss psychology-related topics and learn about careers in psychology.

The Carolina Neuroscience Club (http://carolinaneuroscience.web.unc.edu) brings together students who have an interest in the brain and nervous system. Club members meet regularly to discuss courses, research articles, and post-college neuroscience opportunities. Membership is open to anyone interested in neuroscience.

Psi Chi (https://heellife.unc.edu/organization/psi-chi--psychology-national-honor-society--unch/) is the National Honor Society for psychology. UNC’s chapter strives to increase awareness of psychology among exemplary psychology students.

The Undergraduate Research Society (http://urs.web.unc.edu/) raises undergraduate awareness of research on campus. The society works to bridge interactions between undergraduates, graduate students and faculty members as well as provides opportunities for undergraduate researchers to further their research interests.

Helping Give Away Psychological Science (https://www.hgaps.org/) is a student-based nonprofit organization to improve information about psychology on Wikipedia, on other online sites, and in the community.

Experiential Education

Several opportunities for experiential education are available. The Karen M. Gil Internship Program (http://psychology.unc.edu/undergraduate-studies/gil-internship/) offers both course credit and a monthly stipend to selected psychology and neuroscience majors who are placed in approved internship sites in the community. Interns are selected through a competitive process (minimum grade point average is 3.4). Other experiential education opportunities include PSYC 395; NSCI 395; PSYC 294; NSCI 294; NSCI 424; APPLES, performed either through the APPLES program or in conjunction with a specific psychology class; and other classes for which service learning is a central focus. See course listings for details.

Undergraduate Awards

The Department of Psychology and Neuroscience administers several undergraduate awards: the Dashiel-Thurstone Prize; the David Bray Peele Undergraduate Award; the Donald T. Lysle Service Award; the Lindquist Undergraduate Research Award; the J. Steven Reznick Award for Diversity Enhancement in Psychological Research; the J. Steven Reznick Diversity and Psychological Research Grant; and the Susan M. McHale Award for Outstanding Psychological Research by a Student Who Enhances Diversity, as well as several fellowships and grants administered through the UNC Office for Undergraduate Research or the UNC Honors Carolina Office. An additional honor is election to Psi Chi, the national honor society for psychology undergraduates. Each year, the Lindquist Undergraduate Research Award is given to several undergraduate students to support their research; the Dashiel-Thurstone Prize is awarded to one student for the best undergraduate research project; the David Bray Peel Undergraduate Award is given for the best honors project; and the Donald T. Lysle Service Award is given to a psychology or neuroscience major who has made exemplary service contributions. The Donald T. Lysle Service Award is presented at the Chancellor’s Award Ceremony, the only campus-wide recognition at Carolina. The department also supports awards that support diversity. The J. Steven Reznick Award for Outstanding Research That Enhances Diversity is for a graduating senior who has conducted excellent research that contributes to psychological knowledge about diversity, and the J. Steven Reznick Diversity and Psychological Research Grant as well as the Susan M. McHale Award for Outstanding Research by a Student Who Enhances Diversity are awarded to student researchers who identify as being from an underrepresented population. For each of these awards, diversity is broadly defined, including but not limited to diversity based on race, ethnicity, sexual orientation, gender, disability, religious affiliation, and socioeconomic status. For additional details on these awards, please visit the Psychology and Neuroscience page on undergraduate awards (https://psychology.unc.edu/departmental-awards/#undergraduateawards).

Undergraduate Research

Qualified students interested in doing independent research under the direction of a faculty member may enroll for independent research credit (PSYC 395 or NSCI 395). Students interested in this option should speak directly with psychology faculty members regarding opportunities in their laboratories. Additional information is available on the department’s website (http://psychology.unc.edu/undergraduate-studies/undergraduate-research/). Many other psychology courses also include heavy research components. See the research methods, research intensive, and research exposure courses at the Office for Undergraduate Research (https://our.unc.edu/find-research-courses/).