PSYCHOLOGY, BACHELOR OF SCIENCE

College of Letters & Science

The Major Programs

The psychology program at UC Davis is broad and includes students and faculty with a variety of interests. The department has developed around five core areas of psychology.

Perception, Cognition, & Cognitive Neuroscience (PCCN) involves the study of awareness and thought, and includes such topics as perception, learning, memory, language and cognition.

Biological Psychology covers a broad spectrum of topics including evolutionary, neurobiological, and molecular mechanisms of behavior.

Social-Personality Psychology involves the study of the individual in their social environment and includes such topics as personality & individual differences, emotions, stereotyping & prejudice, intergroup relations, the psychology of religion and psychological health & dysfunction.

Developmental Psychology involves the study of changes in behavioral, cognitive, emotional, and social abilities that occur throughout the lifespan. Typical and atypical development is examined using a variety of methods including behavioral, neuroimaging, and physiological assessments.

Quantitative Psychology involves the study of linear & nonlinear models, psychometrics, mixed-effects models, and dynamic models, including experimental design, analysis of variance, regression, multivariate analysis, latent growth models, time series models, and factor analytic models.

The department offers the Bachelor of Arts (A.B.) program for students interested in the liberal arts and the Bachelor of Science (B.S.) program geared for students with an interest in either biology or mathematics. The main objective of both programs is a broad introduction to the scope of contemporary psychology. In addition to completing a number of common core courses for their degree, students may take approved elective courses from a wide range of topics including Educational Psychology, Interpersonal Communication, and Psychological Anthropology, to name a few. The department strongly encourages students to become involved in individual research projects under the direction of faculty members and to participate in our internship program to broaden experience and understanding of the field of psychology.

Preparatory Requirements

Before declaring a major in Psychology, students must complete PSC 001 and PSC 041 with a combined grade point average of at least 2.500. Both courses must be taken for a letter grade. If a 2.500 GPA is not attained in these two courses, a 2.000 GPA in a minimum of three upper division Psychology courses is also acceptable for major declaration.

Career Alternatives

A degree in psychology provides broad intellectual foundations which are useful to the graduate for the development of careers in a variety of areas, including social work, teaching, business, management and counseling. An undergraduate education in psychology also provides excellent preparation for graduate study. Individuals with degrees in psychology may enter graduate programs to prepare for teaching, research, or clinical/counseling careers in psychology, or may go on to professional schools for training in veterinary and human medicine, law, and many other professions.

Honors & Honors Program

In order to be eligible for high or highest honors in Psychology, the student must both meet the college criteria for honors and complete a research project involving a minimum of 6 units of course work over at least two quarters which represents an original analysis of data on psychological phenomena. Courses PSC 194HA-PSC 194HB or other approved courses can be used to satisfy the unit requirement. This project is to be written in thesis form and approved by the department. The quality of the thesis work will be the primary determinant for designating high or highest honors at graduation.

Recommended for All Majors

Students who plan to do graduate work in any area of psychology are strongly encouraged to gain experience through research and internship activities.

Major Advisor

Staff advisors are located in Young Hall, psychadvising@ucdavis.edu; 530-752-5104. For more information on how to make an appointment or join Drop-In Advising hours, please see Yellow Cluster Undergraduate Advising Center (https://yellowcluster.ucdavis.edu/advising/undergraduate/).

Graduate Study

The Department offers programs of study and research leading to the Ph.D. degree in psychology. Detailed information regarding graduate study may be obtained on our website (https://psychology.ucdavis.edu/graduate/).

Graduate Advisor

See Graduate Students (http://psychology.ucdavis.edu/graduate/).

Biological Emphasis

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<tr>
<td>PSC 001</td>
<td>General Psychology</td>
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<tr>
<td>STA 100</td>
<td>Data Visualization in the Social Sciences</td>
<td>4</td>
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</table>

Choose one series:

- Psychology
- Statistics
- Research Methods
- Mathematics

Choose one:

- PSC 001 or PSC 001Y
- STA 013 or STA 013Y
- PSC 041
- Research Methods in Psychology
- Mathematics

6-8
Psychology, Bachelor of Science

MAT 016A & MAT 016B
Short Calculus and Short Calculus

OR
MAT 017A & MAT 017B
Calculus for Biology & Medicine and Calculus for Biology & Medicine

OR
MAT 021A & MAT 021B
Calculus and Calculus

Physics
Choose (PHY 007A & PHY 007B) or (PHY 010 or PHY 010C or PHY 010CY):

PHY 007A & PHY 007B
General Physics and General Physics

OR
PHY 010
Topics in Physics for Nonscientists
or PHY 010C
Physics of California
or PHY 010CY
Physics of California

Biological Science
BIS 002A
Introduction to Biology: Essentials of Life on Earth
BIS 002B
Introduction to Biology: Principles of Ecology & Evolution
BIS 002C
Introduction to Biology: Biodiversity & the Tree of Life

Chemistry
CHE 002A
General Chemistry
CHE 002B
General Chemistry

Choose one series:
CHE 008A & CHE 008B
Organic Chemistry: Brief Course and Organic Chemistry: Brief Course

OR
CHE 118A & CHE 118B
Organic Chemistry for Health & Life Sciences and Organic Chemistry for Health & Life Sciences

OR
CHE 128A & CHE 128B
Organic Chemistry and Organic Chemistry

Preparatory Subject Matter Subtotal
52-61

Depth Subject Matter
BIS 101
Genes & Gene Expression
4
NBP 101
Systemic Physiology
5

Seven Psychology Courses Distributed as Specified
Core Group A: Perception, Cognition, & Cognitive Neuroscience; choose two:
PSC 100
Introduction to Cognitive Psychology
or PSC 100Y
Introduction to Cognitive Psychology
PSC 130
Human Learning & Memory
PSC 131
Perception
PSC 132
Language & Cognition
PSC 133/CQS 107/CQS 107
Neuroeconomics/Reinforcement Learning & Decision Making
PSC 135
Cognitive Neuroscience: The Biological Foundations of the Mind
PSC 136
Psychology of Music

Core Group B: Psychobiology; choose three:
PSC 101
Introduction to Biological Psychology
PSC 113
Developmental Psychobiology
PSC 121
Physiological Psychology
PSC 122/NPB 150
Advanced Animal Behavior
PSC 123/NPB 152
Hormones & Behavior (3 units)
PSC/NPB 124
Comparative Neuroanatomy (3 units)
PSC 125
Behavioral Epigenetics
PSC 126
Health Psychology
PSC 137
Neurobiology of Learning & Memory
PSC 159
Gender & Human Reproduction

Core Group C: Social/Personality; choose one:
PSC 151
Social Psychology
PSC 152
Social Cognition
PSC 154
Psychology of Emotion
or PSC 154V
Psychology of Emotion
PSC 158
Sexual Orientation & Prejudice
PSC 161
Psychology of the Self
PSC 162
Introduction to Personality Psychology
PSC 165
Introduction to Clinical Psychology

Core Group D: Developmental; choose one:
PSC 140
Developmental Psychology
or PSC 140Y
Developmental Psychology
or HDE 100A
Infancy & Early Childhood
or HDE 100A
Infancy & Early Childhood
or HDE 100B
Middle Childhood & Adolescence
PSC 141
Cognitive Development
PSC 142
Social & Personality Development
PSC 143
Infant Development
PSC 145
Developmental Cognitive Neuroscience
PSC 146
The Development of Memory
PSC 148
Developmental Disorders

Approved Major Electives
Additional units to achieve a total of 40 units of approved upper division major elective coursework. See list of Approved Major Electives below.

Recommended Coursework for Those Interested in Graduate Programs in Biological Psychology
PSC 180B
Research in Psychobiology (on a Biological Psychology topic)
PSC 199
Special Study for Advanced Undergraduates
ANT 154A
The Evolution of Primate Behavior
ESP 110
Principles of Environmental Science
EVE 100
Introduction to Evolution
EVE 101
Introduction to Ecology

Depth Subject Matter Subtotal
47-51

Total Units
99-112

1 Strongly recommended that PSC 041 and PSC 012Y or STA 013 or STA 013Y or STA 100 be completed in the first year.
Psychology, Bachelor of Science

Recommended to take CHE 002A before taking BIS 002A.

If you take one or more 3-unit course(s), you will need additional PSC Major Elective units to fulfill the 40 total units of upper division PSC required in the major.

Students who have completed HDE 100A or HDE 100AV or HDE 100B prior to PSC 140 will receive 2 units of credit for PSC 140.

### Approved Major Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any upper division Psychology (PSC) course(s). (<a href="https://catalog.ucdavis.edu/courses-subject-code/psc/">https://catalog.ucdavis.edu/courses-subject-code/psc/</a>)</td>
<td>1-14</td>
<td></td>
</tr>
<tr>
<td>AAS 141</td>
<td>Psychology of the African American Experience</td>
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<td>EDU 110</td>
<td>Educational Psychology: General</td>
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<td>EXB 102</td>
<td>Introduction to Motor Learning &amp; the Psychology of Sport &amp; Exercise</td>
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<td>Introduction to Psycholinguistics</td>
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<td>Sociology of Violence &amp; Inequality</td>
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</table>

### Statistics

Choose one:

- PSC/CMN/SOC/POL 012Y Data Visualization in the Social Sciences 4
- STA 013 Elementary Statistics 4
- STA 013Y Elementary Statistics 4
- STA 100 Applied Statistics for Biological Sciences

### Research Methods

Choose one:

- PSC 041 Research Methods in Psychology 4

### Mathematics

Choose one:

- MAT 021A Calculus 4
- MAT 021B Calculus 4
- MAT 021C Calculus 4

### Computer Science Engineering

Choose one:

- ECS 032A Introduction to Programming 4
- ECS 036A Programming & Problem Solving

### Chemistry

Choose one:

- CHE 002A General Chemistry 4
- CHE 002B General Chemistry 4
- CHE 002AH Honors General Chemistry and General Chemistry
- CHE 002BH Honors General Chemistry and Honors General Chemistry
- CHE 010 Concept of Chemistry

### Physics

Choose one:

- PHY 007A & PHY 007B General Physics and General Physics 4
- PHY 007A General Physics 4
- PHY 007B General Physics 4
- PHY 010 Topics in Physics for Nonscientists 4
- PHY 010C Physics of California 4
- PHY 010CY Physics of California

### Biology

Choose one:

- BIS 002A Introduction to Biology: Essentials of Life on Earth 4
- BIS 010 Everyday Biology
- ANT 001 Human Evolutionary Biology 4
- ANT 001Y Human Evolutionary Biology (Hybrid Version) 4
- MCB 010 Introduction to Human Heredity 4
- NPB 010 Elementary Human Physiology 4

### Quantitative Emphasis

**Preparatory Subject Matter**

**Psychology**

Choose one:

- PSC 001 General Psychology 4
- PSC 001Y General Psychology

1. Except PSC 197T.

2. If you take one or more 3-unit course(s), you will need additional PSC Major Elective units to fulfill the 40 total units of upper division PSC required in the major.
or PSC 104  Applied Psychometrics: An Introduction to Measurement Theory

Statistics

Choose one series:  8


OR

STA 130A & STA 130B  Mathematical Statistics: Brief Course and Mathematical Statistics: Brief Course

OR

STA 131A & STA 131B  Introduction to Probability Theory and Introduction to Mathematical Statistics

Five Psychology Courses, Distributed as Specified

Core Group A: Perception, Cognition, & Cognitive Neuroscience; choose two:
PSC 100  Introduction to Cognitive Psychology
or PSC 100Y  Introduction to Cognitive Psychology
PSC 130  Human Learning & Memory
PSC 131  Perception
PSC 132  Language & Cognition
PSC 133/CGS 107/ECN 107  Neuroeconomics/Reinforcement Learning & Decision Making
PSC 135  Cognitive Neuroscience: The Biological Foundations of the Mind
PSC 136  Psychology of Music
PSC 139  Advanced Cognitive Neuroscience

Core Group B: Psychobiology; choose two:  6-8
PSC 101  Introduction to Biological Psychology
PSC 113  Developmental Psychobiology
PSC 121  Physiological Psychology
PSC 122/NPB 150  Advanced Animal Behavior
PSC 123/NPB 152  Hormones & Behavior (3 units)
PSC/NPB 124  Comparative Neuroanatomy (3 units)
PSC 125  Behavioral Epigenetics
PSC 126  Health Psychology
PSC 137  Neurobiology of Learning & Memory
PSC 159  Gender & Human Reproduction

Choose one course from Group C or Group D:  4

Core Group C: Social/Personality
PSC 151  Social Psychology
PSC 152  Social Cognition
PSC 154  Psychology of Emotion
or PSC 154V  Psychology of Emotion
PSC 158  Sexual Orientation & Prejudice
PSC 161  Psychology of the Self
PSC 162  Introduction to Personality Psychology
PSC 165  Introduction to Clinical Psychology
PSC 168  Abnormal Psychology

Core Group D: Developmental
PSC 140  Developmental Psychology
or PSC 140Y  Developmental Psychology
or HDE 100A  Infancy & Early Childhood

or HDE 100AV  Infancy & Early Childhood
or HDE 100B  Middle Childhood & Adolescence

PSC 141  Cognitive Development
PSC 142  Social & Personality Development
PSC 143  Infant Development
PSC 145  Developmental Cognitive Neuroscience
PSC 146  The Development of Memory
PSC 148  Developmental Disorders

Approved Major Electives

Additional units to achieve a total of 40 units of approved upper division major elective coursework. See list of Approved Major Electives below. (p. 3)  10-13

Depth Subject Matter Subtotal  45-51

Total Units  85-105

1 Strongly recommended that PSC 001, PSC 041, and PSC 012Y or STA 013 or STA 100 be completed in the first year. Recommended to take Statistics before taking PSC 041.
2 Recommended to take CHE 002A before taking BIS 002A.
3 If you take one or more 3-unit course(s), you may need additional PSC Major Elective units to fulfill the 40 total units of upper division PSC required in the major.
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