

BACHELOR OF SCIENCE IN PSYCHOLOGICAL SCIENCE

The major in Psychological Science requires a minimum of 38 credit hours and leads to a Bachelor of Science degree. A minor or second major is required, unless a student chooses the 50-hour extended major option. The extended major option requires that you either (a) take 12 additional hours to complete a second concentration, or (b) select the Quantitative Psychology concentration. The program is designed for students who are interested in a science-oriented degree that will prepare them for graduate study in psychology or a related field (e.g., medical school, pharmacy, physical therapy) or for employment in jobs where strong quantitative and research skills are required.

Students may choose one or two of seven concentrations or they may design a customized concentration that best fits their interests (subject to approval by their advisor). Students must maintain a minimum 2.50 GPA both overall and in the major. MATH 183 is recommended as the math requirement; either (1) MATH 116 and MATH 117, or (2) MATH 118 or higher also meets the requirement. Students in the Quantitative Psychology concentration must complete MATH 136.

Notes: (1) Students in the 38-hour option of the Psychological Science major can count no more than 3 credits of PSYS 490 toward the major. Students in the 50-hour option may count no more than 6 credits of PSYS 490 toward the major, with no more than 3 credits counting toward a single concentration's requirements. **(2)** Exceptions and substitutions to these requirements require approval from the chair of the Department of Psychological Sciences, and advisors work with transfer students to facilitate this process.

THEMATIC CONCENTRATIONS

(See following pages for details)

Applied Psychological Science

Uses psychological science to solve real-world problems and enhance performance in business, sports, or human engineering.

Biobehavioral Psychology

Emphasizes the scientific study of the neural and brain mechanisms that enable mind, consciousness, and behavior.

Clinical Psychological Science

Focuses on mechanisms and causes of psychological health and dysfunction.

Cognitive Psychology

Emphasizes the scientific study of mental processes such as attention, perception, memory, problem-solving, thinking, and language.

Developmental Science

Addresses the physical, emotional, intellectual, social, perceptual, and personality growth of humans throughout the lifespan.

Social Psychology

Emphasizes the study of how social situations affect behavior.

General Concentration

Provides a flexible format for students to design their own concentration in consultation with their advisor.

Quantitative Psychology Concentration

Focuses on the use of advanced data manipulation and statistical analysis techniques within psychological science to examine discipline-specific research questions. (extended major only)

Concentration in Applied Psychological Science

This concentration uses psychological science to solve real-world problems and enhance performance in business, sports, or human engineering.

Foundations of Psychology (required)

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 350 – Social Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses 12 hours

Required:

- PSYS 413 Psychological Measurement

Electives (choose 9 hours):

- PSYS 353 Psychology of Prejudice
- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems
- PSYS 370 Industrial-Organizational Psychology
- PSYS 433 Judgment & Decision Making
- PSYS 473 Training in Business and Industry
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology
- PSYS 499 Senior Seminar in Psychology (category-related topic)
- PSY 340 Sport Psychology
- PSY 355 Issues in Cross-Cultural Psychology
- PSY 412 Motivation and Emotion
- PSY 470 Psychology and Law

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Concentration in Biobehavioral Psychology

This concentration emphasizes the scientific study of the neural and brain mechanisms that enable mind, consciousness, and behavior.

Foundations of Psychology (required)

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 331 Principles of Human and Animal Learning

Individual Differences and Social Processes 3 hours

- PSYS 350 Social Psychology
- PSYS 440 Abnormal Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses 12 hours

Required:

- PSYS 363 Sensory and Perceptual Systems

Electives (choose 9 hours):

- PSYS 333 Cognitive Psychology
- PSYS 431 Psychology of Language
- PSYS 462 Neuroscience of Learning and Memory
- PSYS 463 Evolutionary Psychology
- PSYS 465 Psychopharmacology
- PSYS 482 Psychology of Sexuality
- PSYS 490 Research, Readings, or Special Projects in Psychology
- PSYS 499 Senior Seminar in Psychology (category-related topic)

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Concentration in Clinical Psychological Science

This concentration focuses on mechanisms and causes of psychological health and dysfunction.

Foundations of Psychology (required)

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 331 Principles of Human and Animal Learning
- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 440 Abnormal Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses (choose 12 hours)

- PSYS 350 Social Psychology
- PSYS 353 Psychology of Prejudice
- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 413 Psychological Measurement
- PSYS 423 Psychology of Adult Life and Aging
- PSYS 425 Developmental Psychopathology
- PSYS 442 Psychology of Suicide and Self Injury
- PSYS 450 Psychology of Personality
- PSYS 451 Psychology of Religion
- PSYS 453 Psychology of Women
- PSYS 462 Neuroscience of Learning and Memory
- PSYS 465 Psychopharmacology
- PSYS 482 Psychology of Sexuality
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology
- PSYS 499 Senior Seminar in Psychology (category-related topic)

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Concentration in Cognitive Psychology

This concentration emphasizes the scientific study of mental processes such as attention, perception, memory, problem-solving, thinking, and language.

Foundations of Psychology (required)

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 350 Social Psychology
- PSYS 440 Abnormal Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses (choose 12 hours)

- PSYS 331 Principles of Human and Animal Learning
- PSYS 363 Sensory and Perceptual Systems
- PSYS 423 Psychology of Adult Life and Aging
- PSYS 431 Psychology of Language
- PSYS 433 Judgment & Decision Making
- PSYS 462 Neuroscience of Learning and Memory
- PSYS 490 Research, Readings, or Special Projects in Psychology
- PSYS 499 Senior Seminar in Psychology (category-related topic)
- PSY 412 Psychology of Motivation and Emotion

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Concentration in Developmental Science

This concentration addresses the physical, emotional, intellectual, social, perceptual, and personality growth of humans throughout the lifespan.

Foundations of Psychology

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 331 Principles of Human and Animal Learning
- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 350 Social Psychology
- PSYS 440 Abnormal Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses (choose 12 hours)

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology
- PSYS 423 Psychology of Adult Life and Aging
- PSYS 424 Topics in Developmental Psychology (may be repeated when topic changes)
- PSYS 425 Developmental Psychopathology
- PSYS 431 Psychology of Language
- PSYS 463 Evolutionary Psychology
- PSYS 482 Psychology of Sexuality
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology
- PSYS 499 Senior Seminar in Psychology(category-related topic)

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Concentration in Social Psychology

This concentration emphasizes the study of how social situations affect behavior.

Foundations of Psychology

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 331 Principles of Human and Animal Learning
- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 350 Social Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses 12 hours

Required:

- PSYS 413 Psychological Measurement

Electives (choose 9 hours):

- PSYS 353 Psychology of Prejudice
- PSYS 433 Psychology of Judgment and Decision Making
- PSYS 440 Abnormal Psychology
- PSYS 450 Personality Psychology
- PSYS 451 Psychology of Religion
- PSYS 453 Psychology of Women
- PSYS 463 Evolutionary Psychology
- PSYS 482 Psychology of Sexuality
- PSYS 490 Research, Readings, or Special Projects in Psychology
- PSYS 499 Senior Seminar in Psychology (category-related topic);
- PSY 412 Motivation and Emotion

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

General Concentration

This concentration provides a flexible format for students to design their own concentration in consultation with their advisor,

Foundations of Psychology (required)

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 331 Principles of Human and Animal Learning
- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 350 Social Psychology
- PSYS 440 Abnormal Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses 12 hours

Students who choose to design a custom concentration will select 12 hours from courses not used to satisfy their Foundations of Psychology requirement or from concentration courses in any of the other thematic concentrations.

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Concentration in Quantitative Psychology

This concentration focuses on use of advanced data manipulation and statistical analysis techniques within psychological science to examine discipline-specific research questions. This concentration requires at least 51 hours; no minor or second major and no second Psychological Science concentration are required. MATH 136 (Calculus 1) is required for this concentration.

Foundations of Psychology (required)

Survey of the Discipline 3 hours

- PSYS 100 Introductory Psychology
- PSYS 160 Introduction to Biopsychology

Developmental Processes 3 hours

- PSYS 220 Introduction to Lifespan Developmental Psychology
- PSYS 321 Child Developmental Psychology

Learning and Cognition 3 hours

- PSYS 331 Principles of Human and Animal Learning
- PSYS 333 Cognitive Psychology

Individual Differences and Social Processes 3 hours

- PSYS 350 Social Psychology
- PSYS 440 Abnormal Psychology

Biological Bases of Behavior and Mental Processes (choose one)

- PSYS 360 Behavioral Neuroscience
- PSYS 362 Behavioral Neuroscience with Lab
- PSYS 363 Sensory and Perceptual Systems

Research Methods and Statistics (required)

- PSYS 210 Research Methods in Psychology
- PSYS 211 Research Methods in Psychology Laboratory
- PSYS 313 Statistics in Psychology

Integrative Science in Psychology (3 hours)

- PSYS 380 Psychology and Science Fiction
- PSYS 481 History of Psychology
- PSYS 490 Research, Readings, or Special Projects in Psychology

Concentration Courses 24-25 hours

Required:

- PSYS 413 Psychological Measurement
- STAT 301 Introductory Probability and Applied Statistics
- STAT 330 Introduction to Statistical Software

Elective in Introductory Computer Coding (choose one)

- CS 146 Introduction to Programming
- CS 170 Problem Solving and Programming
- CS 180 Computer Science 1

Elective in Advanced Statistics (choose one)

- STAT 401 Regression Analysis
- STAT 402 Experimental Design

Psychological Science Electives (9 hours):

Select 9 PSYS upper-level hours in consultation with an advisor. No more than 3 hours of PSYS 490 can be used to satisfy these elective hours. An additional 3 hours of PSYS 490 can be applied to the Integrative Science in Psychology requirement.

Lab Requirement (choose one)

- PSYS 322 Laboratory in Developmental Psychology
- PSYS 334 Laboratory in Cognition
- PSYS 362 Behavioral Neuroscience with Lab

Department of Psychological Sciences - Courses for B.S. in Psychological Science

Prefix	#	Course title	Requirement fulfilled
PSY/PSYS	100	INTRO PSY	Core
PSYS	160	INTRO BIOPSYCHOLOGY	Core
PSY/PSYS	210	RESEARCH METHODS	Core
PSY/PSYS	211	RESEARCH METHODS LAB	Core
PSY/PSYS	220	INTRO DEVELOPMENT PSY	Foundation
PSY/PSYS	313	STATISTICS/PSY	Core
PSYS	321	CHILD DEVELOPMENTAL PSY	DVS and Foundation
PSYS	322	CHILD DEVELOPMENT LAB	Lab
PSYS	331	HUMAN AND ANIMAL LEARNING	Foundation, CGP
PSYS	333	COGNITIVE PSY	Foundation, BBP
PSYS	334	LAB IN COGNITION	Lab
PSY	340	SPORT PSY	APS
PSY/PSYS	350	SOCIAL PSYCHOLOGY	Foundation, CPS
PSYS	353	PSYCHOLOGY OF PREJUDICE	APS, CPS, SOP
PSY	355	ISSUES CROSS-CULTURAL PSY	APS
PSYS	360	BEHAVIORAL NEUROSCIENCE	Foundation, APS, BBP, CPS
PSYS	362	BEHAVIORAL NEUROSCIENCE WITH LAB	Foundation, APS, BBP, CPS, Lab
PSYS	363	SENS/PERCEP	Foundation, APS, BBP, CGP
PSYS	380	PSYCH OF SCIENCE FICTION	Capstone
PSY	412	MOTIVATION AND EMOTION	APS, CGP, SOP
PSYS	370	I/O PSYCHOLOGY	APS
PSYS	413	PSY MEASUREMENT	APS, CPS, SOP, QUA
PSYS	423	PSY ADULT/AGING	CGP, CPS, DVS
PSYS	424	DEVELOP SEMINAR	DVS
PSYS	425	DEVELOPMENTAL PSYCHOPATHOLOGY	CPS, DVS
PSYS	431	PSYCHOLOGY OF LANGUAGE	BBP, CGP, DVS
PSYS	433	JUDGMENT AND DECISION MAKING	APS, CGP, SOP
PSY/PSYS	440	ABNORMAL PSY	Foundation, SOP
PSYS	442	SUICIDE AND SELF INJURY	CPS
PSYS	450	PERSONALITY	CPS, SOP
PSYS	451	PSYCHOLOGY OF RELIGION	CPS, SOP
PSYS	453	PSYCH OF WOMEN	CPS, SOP
PSYS	462	NEUROSCIENCE LEARNING MEMORY	BBP, CPS, CGP
PSYS	463	EVOLUTIONARY PSYCHOLOGY	BBP, DVS, SOP
PSYS	465	PSYCHOPHARMACOLOGY	BBP, CPS
PSY	470	PSYCHOLOGY AND LAW	APS
PSYS	473	TRAINING BUSINESS INDUSTRY	APS
PSY/PSYS	481	HIST OF PSY	Capstone, All
PSYS	482	PSYCHOLOGY OF SEXUALITY	BBP, CPS, DVS, SOP
PSYS	490	READINGS/RESEARCH	Capstone, All
PSY/PSYS	499	SENIOR SEMINAR	All

APS Applied Psych Sci. **BBP** Biobehavioral Psychology **CPS** Clinical Psych Sci. **CGP** Cognitive Psychology
DVS Developmental Science **QUA** Quantitative Psychology **SOP** Social Psychology