We believe the best way to learn the science of psychology is by engaging our faculty and students in a collaborative search for new knowledge about human cognition, emotion, and behavior. This process begins with an understanding of the discipline’s conceptual foundations, and it requires a firm grounding in methods of research design and statistical analysis. Psychology majors learn how to explain behavior from multiple perspectives; how to ask substantive questions and to use appropriate empirical methodologies to address those questions; how to communicate their findings clearly in written, oral, and visual forms; and how to interact with humans and animals following the ethical standards of the field.

An extensive program of laboratory research provides the means for students and faculty to work together to explore interesting phenomena in cognition, development, emotion, health, motivation, neuroscience, perception, personality, psychopathology, and social psychology. Civic engagement and internship opportunities allow students to apply course content to real-world contexts.

The concentration in neuroscience allows students to explore an interdisciplinary field combining the study of psychology and biology. More information on research in the various laboratories may be found on the department’s website, colby.edu/psychology.

Students who major in psychology will graduate knowing how to ask good questions and how to find and communicate the answers to those questions. These skills are useful in any field of endeavor, especially for graduate study in psychology or other professional programs such as law or medicine and as general preparation for entry into business, educational, nonprofit, or governmental work settings.

Requirements for the Major in Psychology

Psychology 111, 214, 215, 420; at least two courses from 241, 251, 253, 254, 259; at least two courses from 232, 233, 234, 236, 275; at least one 300-level seminar with an associated course in collaborative research; at least one other 300-level course.

Requirements for the Major in Psychology: Neuroscience

Psychology 111, 214, 215, 233, 374 or 375, 420; at least two courses from 232, 234, 236, 254, 275; at least two courses from 241, 251, 253, 259; at least one 300-level seminar with an associated course in collaborative research. In addition, Biology 163, 164, and 274 (with lab); at least one biology course from 225, 276, 279, 332, 373, 374, 375. A student may not double major in biology with a concentration in neuroscience and psychology: neuroscience.

Honors in Psychology or Psychology: Neuroscience

Near the end of the junior year, students may be invited by the department to participate in the honors program. Criteria for invitation normally include major GPA, completing at least one seminar and collaborative research paired course by the end of the junior year, overall engagement in research, and compatibility of student and faculty interests. In addition to fulfilling the basic requirements for the psychology major, students must complete the honors research sequence (Psychology 483, 484). Upon vote of the department, the student will be awarded his or her degree with “Honors in Psychology.”

Course Offerings

PS111fs  Introduction to Psychology  An examination of classical and contemporary topics in psychology, including neuroscience, learning, memory, cognition, language, intelligence, development, personality, psychopathology, and social psychology. Students will begin developing skills that will enhance understanding of the discipline of psychology, including explaining behavior from multiple theoretical perspectives, conducting research and evaluating the results, applying research to real-world contexts, thinking about implications of research, and working collaboratively in a scientific context.  Four credit hours.  S.  BUCCIGROSSI, COANE, RAAG, SETO, SOTO

[PS115]  Psychology of Drugs  Drugs are an integral, but often controversial aspect of life in the United States and elsewhere. It was not until the 19th century that the formal study of drugs by scientists, including psychologists, gained significant momentum. The number of
drugs available has increased at the same time as our scientific understanding and drug laws have proliferated. Students write about behavioral and neural aspects of drugs in different formats, e.g., response papers, media-style articles, and research reviews, and give presentations. Credit cannot be earned for both Psychology 115 and 236. Three credit hours. W1.

[PS120A] Our Lives as Animals Drawing mainly on research from the fields of neuroscience and psychology, we will explore how our behavior, like that of other animals, is a product of our biology. We will also explore the ways in which our interactions with the world influence and shape the structure and functioning of our brains. No formal background in neuroscience or psychology is required. Students will learn about selected topics and writing through a series of structured writing and speaking assignments in which they can target different audiences, experiment with different styles, and learn effective use of revision. Four credit hours. W1.

PS120Bs Memories and Memoirs Memory supports an individual's sense of self and place in the world. To learn how memory underlies the construction of individual and social narratives, we will talk about memory and memory failures and apply this knowledge to assess memoir essays and other forms of writing. Students will a) practice writing for diverse audiences; b) learn about the process of writing through outlining, drafting, and revising; c) refine skills in writing clearly and eloquently; and d) properly represent and integrate the ideas of others. Students will also learn about the science of memory and memory processes related to long-term memory. Four credit hours. W1. COANE

PS214f Research Methods and Statistics in Psychology I Along with Psychology 215, provides students with knowledge of research design and statistical tools for working with data, which will allow them to engage in original empirical research. Topics include descriptive and inferential statistics, literature review, hypothesis formulation, and issues of control and ethics in research. Students practice a variety of statistical tests, work with SPSS, powerful statistical software, and prepare a written proposal for an experiment following the stylistic conventions of the American Psychological Association. Lecture and laboratory. Prerequisite: Psychology 111 and another 200-level psychology course (may be taken concurrently). Four credit hours. Q. SHEETS

PS215s Research Methods and Statistics in Psychology II Continuation of Psychology 214. Topics include experimental design, analysis of variance (ANOVA), interpretation of complex factorial studies, and oral and written communication of findings following the conventions of the American Psychological Association. Collaborative laboratory activities center on design, data collection, analyses, and oral and written communication of an original empirical research project. Lecture and laboratory. Prerequisite: Psychology 214, a W1 course, and sophomore or junior standing. Four credit hours. W2. ARTERBERRY

PS232s Cognitive Psychology Study of human cognition: how the cognitive system encodes, processes, and uses information. Emphasis is on the areas of pattern recognition, attention, memory, and language. We will explore these areas by discussing classic and contemporary research and the theories proposed to explain the observed phenomena. We will integrate findings from behavioral studies, neuroscience, and special populations to gain understanding of the basic processes underlying normal cognitive operations that are pervasive in everyday life. Readings and discussion of original papers and written assignments will supplement lectures and texts. Prerequisite: Psychology 111. Four credit hours. COANE

PS233fs Biological Basis of Behavior Broad survey of behavioral neuroscience will include instruction on neural anatomy and function; modulation of these systems by hormones, drugs, and disease; and the neural basis of many behaviors of interest to psychologists, including sex, sleep, learning, and memory. Students will gain a comprehensive working knowledge of the mammalian central nervous system in the context of psychology to use as they learn the historical and modern framework of specific questions by reading and discussing research articles and completing assignments. Assignments will prepare students to write a research proposal on one topic they will learn about and critically analyze in more depth. Prerequisite: Psychology 111. Four credit hours. BUCCIGROSSI

PS234j Theories of Learning A comparative examination of the scientific study of learning from the perspectives of classical conditioning, instrumental learning, and operant conditioning theorists: Watson, Thorndike, Skinner, Hull, Pavlov, Guthrie, Estes, Tolman, and others. Consideration of philosophical and historical antecedents, current issues, and applications to animal and human behavior. Includes critical reading and discussion of classic and modern scientific and popular articles, and related written assignments and oral presentation. Prerequisite: Psychology 111. Three credit hours. YETERIAN

PS236s Drugs, Brain, and Behavior An examination of relationships among drugs, nervous system, conscious experience, and behavior. Historical and legal as well as psychopharmacological aspects of a wide variety of licit and illicit substances will be surveyed, including cocaine, amphetamines, nicotine, caffeine, alcohol, opiates, marijuana, hallucinogens, psychotherapeutic and other prescription medications, and over-the-counter drugs. Includes critical reading and discussion of information from scientific and popular media, related written assignments, and oral presentation. Credit cannot be earned for both Psychology 115 and 236. Prerequisite: Psychology 111. Four credit hours. YETERIAN

PS241f Health Psychology An examination of the contributions of psychology to identifying factors that relate to health and illness, promoting and maintaining health, and preventing and treating illness. Students will gain knowledge of methodologies for studying health

Generated April 15, 2018, on colby.edu 2 Colby College 2017-2018 Catalogue
behavior, the role of psychological, social, and structural factors in health and illness, theories of health behavior, and designing interventions to promote health and manage illness. In addition, students will apply course content to real-life contexts. Prerequisite: Psychology 111. Four credit hours. REID MCCARTHY

PS251f  Personality Psychology  An individual's personality is that person's characteristic pattern of thinking, feeling, and behaving, together with the psychological mechanisms that underlie this pattern. In this introduction to personality science, students will critically engage with a variety of theories, methodologies, and research findings that influence current thinking about personality. Issues considered include approaches to studying personality; biological, social, and cultural bases of personality; conscious and unconscious personality processes; and influences of personality on behavior and life outcomes. Prerequisite: Psychology 111. Four credit hours. SOTO

PS253s  Social Psychology  Social psychology is the study of how the social environment influences a person's thoughts, feelings, and behaviors. Introduces students to major theoretical perspectives in the field as well as classical and contemporary research in social psychology. Topics include social cognition and perception, the self, attitudes and persuasion, social influence, and interpersonal attraction. Prerequisite: Psychology 111. Four credit hours. SETO

PS254s  Abnormal Psychology  An examination of major paradigms, research, and current issues in abnormal psychology. Includes diagnostic classification, etiology, and clinical intervention strategies as applied to the major categories of mental disorder. Special topics such as treatment outcome research methods, professional ethics in mental health settings, and the importance of comorbidity in the study of psychopathology are addressed. Prerequisite: Psychology 111. Four credit hours. SHEETS

PS259f  Lifespan Development  A study of human development across the lifespan with emphasis on the general characteristics of development from birth to death. Various theories will be explored to explain developmental processes. Topics include perceptual, cognitive, social, and identity development; the role of families, communities, and culture in development; and death and dying. Students have the option to participate in civic engagement activities in the local community. This applied work helps students explore how to apply the findings of research or tenets of theory to real-world contexts. Prerequisite: Psychology 111. Four credit hours. RAAG

PS275f  Human Neuropsychology  An examination of neural bases of normal and abnormal human cognition, emotion, and behavior, with integration of modern and classic data from experimental and clinical neuropsychology and neurology. Emphasis on functional neuroanatomy in sensory-perceptual, motor, and emotional-motivational function; in cognitive processes including learning, memory, and language; in mental disorders; and in brain injury and disease. Includes critical reading and discussion of modern and classic scientific and popular articles and related written assignments and oral presentation. Prerequisite: Psychology 111. Four credit hours. YETERIAN

PS336f  Seminar in Experimental Social Psychology  Trains students to critically examine various areas of research in social psychology, with an emphasis on topics historically found in existential philosophy. Discussion topics may include the psychological consequences of belief in free will on moral judgments, social behavior, and understanding of the self and factors that contribute to the experience of authenticity, true self-knowledge, and a meaningful existence. Students will be expected to read, write, and engage in constructive discussions of empirical research articles and develop skills to analyze and evaluate current research in the field. Prerequisite: Psychology 215 and 253, and concurrent enrollment in 337. Four credit hours. W3. SETO

PS337f  Collaborative Research in Social Psychology  Collaborative empirical research projects on topics discussed in Psychology 336. Students will design, conduct, and present an original research project that contributes to the knowledge of existential issues within the framework of social psychology. Collaborative and individual oral and written assignments, following the conventions of the American Psychological Association, will be used to evaluate students' research and communication competencies. Prerequisite: Concurrent enrollment in Psychology 336. One credit hour. W3. SETO

PS339s  Seminar in Personality Psychology  With its companion, Psychology 340, trains students to be personality psychologists—inform ed consumers and producers of personality science. Students will critically engage with a variety of personality theories and research through reading, writing, and discussion. Issues considered include how specific habits of thinking, feeling, and behaving cohere into broader personality traits; how personality develops across the life span; and how personality influences behavior and life outcomes. Prerequisite: Psychology 215 and 251, and concurrent enrollment in Psychology 340. Four credit hours. W3. SOTO

PS340s  Collaborative Research in Personality Psychology  Each student will become an expert about a specific issue related to personality. Working collaboratively, students will then design, conduct, and present a research project that contributes new scientific knowledge about this issue. Prerequisite: Psychology 215 and 251, and concurrent enrollment in Psychology 339. One credit hour. SOTO

PS341f  Seminar in Memory  Focuses on the processes by which memories are modified or distorted. Students will acquire a basic understanding of how memories are reconstructive in nature and depend on and interact with other cognitive processes. Evaluation of
Creative productivity, conceptually linking psychological science to disciplines of creative expression, and proposing a novel research project.

Are creative people more likely to experience mood disorders? Can extreme mood experiences inform and even enhance creativity? The concept of the "mad genius" has been debated for centuries and remains controversial within modern psychological science. We will explore the nature of creativity and its intersection with mood and mental illness. Learning goals include discussing and critically examining conflicting claims about the effects of mood episodes on creative productivity, conceptually linking psychological science to disciplines of creative expression, and proposing a novel research project.
PS352Ei Seminar: Developmental Psychology  Psychological principles as they relate to developmental psychology. Topics including theoretical perspectives on how development proceeds will be addressed in the first half; specific topics related to development in the second. Topics are selected by students and have included dating violence, bullying, sexuality, domestic violence, links between systems of discrimination (sexism/racism/homophobia/classism), resiliency, parenting, attachment, friendships, mentoring, death, and dying. Students are expected to participate in applied work to reflect on how to bridge the gap between research/theory and using research/theory in the real world. Prerequisite: Psychology 254. Four credit hours. SHEETS

PS354s Seminar in Emerging Adulthood  Study of identity change in emerging adults. Current theories and empirical research on identity are explored with an emphasis on developmental processes. Discussion topics may include contexts of change, contextual triggers of change, scaffolding for healthy identity change, and the intersection among identities. Students will determine the more specific focus of identities we study: religious, political, sexual, gender, ethnic/racial, etc. Reading and discussion of empirical research articles allow for development of skills for evaluating current research, placing new data within a theoretical context, and explaining identity development from several theoretical perspectives. Prerequisite: Psychology 215, and either 255, 256, or 259, and concurrent enrollment in 355. Four credit hours. RAAG

PS355s Collaborative Research in Emerging Adulthood  Collaborative empirical research projects on topics discussed in Psychology 354. Empirical work addressing an original research question on a topic pertaining to emerging adult identity. Collaborative and individual oral and written assignments, following the conventions of the American Psychological Association, in addition to evaluating student research and communication competencies. Prerequisite: Concurrent enrollment in Psychology 354. One credit hour. RAAG

PS356s Seminar in Social Psychology and Health  Critical examination of current issues in health psychology, with an emphasis on the social psychological approach to the study of health. Discussion topics may include whether, how, and for which individuals social relationships and the social environment affect health, theories of health behavior, and social psychological approaches to health behavior change. Reading and discussing empirical research articles will aid students in developing the skills to both critically evaluate and effectively communicate about current research. Prerequisite: Psychology 215, either 241 or 253, and concurrent enrollment in 357. Four credit hours. W3. REID MCCARTHY

PS357s Collaborative Research in Social Psychology and Health  Collaborative empirical research projects on topics discussed in the seminar. Students will design, conduct, and present the findings of a research project that contributes new knowledge to the field of health psychology. Prerequisite: Psychology 215, and either 241 or 253, and concurrent enrollment in 356. One credit hour. REID MCCARTHY

[PS374] Seminar: Psychology and Neuroscience  Exploration of the vast intersection between the fields of psychology and neuroscience: how psychology has shaped and contributed to the field of neuroscience, and how findings from neuroscience aid psychological research and theories. Topics may include developmental and degenerative neuropathology and the impact of environment, genetics, psychological factors, and sociocultural contexts over them. Students will read, critically evaluate, and discuss empirical and theoretical papers as they gain depth of knowledge on different topics. Students will present their ideas in oral and written form and will work on a collaborative writing project. Prerequisite: Psychology 233. Four credit hours.

PS375s Seminar: Human Neuropsychology  Exploration of current and classic issues in human brain-behavior relationships, normal and abnormal, through critical reading and discussion of scientific literature in experimental and clinical neuropsychology and neuroscience, behavioral neurology, and neuropsychiatry. Topics may include neural bases of sensory-perceptual, cognitive, emotional-motivational, and motor processes; mental and neurological disorders; brain injury and disease; and drugs and medications. Includes oral presentations and written critical research reviews. Prerequisite: Psychology 233, 236, or 275. Four credit hours. YETERIAN

PS416s Senior Empirical Research  A senior independent empirical project conducted in one semester that addresses a question about human or animal behavior or mental processes. Students will be expected to carry out all phases of a research investigation, including a literature review, study design, data collection and analyses, and writing a final report. Prerequisite: Psychology 215, content area courses relevant to the research topic, and permission of the department. Three or four credit hours. YETERIAN

PS420fs Senior Integrative Seminar  A culminating experience for students majoring in psychology, organized around the department's research colloquium series. Students will critically engage with a variety of current psychological research and will integrate theories, methodologies, and findings across areas of psychology. Specifically, students will attend research presentations by invited guest speakers, read companion papers selected by the speakers, meet in a seminar session to discuss each speaker's presentation, and write a final paper that integrates the theories, methodologies, or research findings of at least two colloquium speakers. Prerequisite: Senior standing in psychology and permission of the instructor. Three credit hours. SHEETS
PS483f  Honors Research I  Under faculty supervision, students prepare a proposal and carry out an independent, empirical project culminating in the preparation of a paper of publishable quality and a formal presentation. A 3.50 major average at the end of the senior year is a condition of successful completion of this program. Application required during junior year. Prerequisite: A 3.50 major average at the end of the junior year and permission of the department.  
Four credit hours.  
FACULTY

PS483Jj  Honors Research I  Noncredit.  REID MCCARTHY

PS491f, 492s  Independent Study  Individual projects, under faculty supervision, in areas in which the student has demonstrated the interest and competence necessary for independent work. Cannot be counted toward the psychology major or minor. Prerequisite: 
Permission of the instructor.  One to four credit hours.  
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