

PSYCHOLOGY (BA OR BS)

Chair: Charles Goodsell, PhD (goodselc@canisius.edu)

Introduction

The Department of Psychological Sciences at Canisius University offers two separate degrees; a Bachelor of Arts (BA) in Psychology and a Bachelor of Science (BS) in Psychology. While there are some similarities between these degrees, the differences between the two degrees are primarily related to what you want to do with the degree and the coursework aligned within each program.

The most noteworthy **difference between** the two degrees is the level of science/research courses that must be completed. In addition to the acquisition of discipline-specific knowledge obtained through the 10 courses aligned within the BA program, there are three additional statistical/research based courses that must be completed for the B.S. degree. In the Bachelor of Science degree program, student majors will be given the opportunity to complete scientifically rigorous coursework and to be immersed in research based experiential activities. Courses aligned with the degree are specifically designed to increase student knowledge and understanding of advanced statistical methods, and to help students develop the mastery of a skill set useful in attaining postgraduate and/or career objectives that utilize these methods of scientific inquiry. It is recommended that students begin in the BA program and then, after consulting with their advisor, switch to the BS sometime after their freshman year.

Visit the Departmental website (<https://www.canisius.edu/academics/programs/psychology/>) for a description of the program, faculty, facilities, academic and co-curricular opportunities.

Qualifications

Students must maintain a 2.0 GPA in the major and a 2.0 overall average to graduate with a degree in Psychology.

Advisement

All students should have an advisor in the major and should contact the department directly to have an advisor assigned if they do not already have one. Meetings with academic advisors are required prior to students receiving their PIN for course registration each semester. All majors should work closely with their advisor in discussing career expectations, choosing their major electives, developing their entire academic program and planning their co-curricular or supplemental academic experiences.

Double Majors

Students who wish to expand their educational opportunities may decide to declare a double major. This decision may be based on career goals, planned graduate studies, and/or other student interests. Before a student declares a double major, it is important to meet with the appropriate academic departments for advisement. In order to declare a double major, the student must complete the Major/Minor Declaration form. This form will be submitted electronically and reviewed and approved by each department chairperson as well as the appropriate associate dean.

Per university policy, each additional major requires a minimum of 15 credits that do not apply to the student's first or subsequent major. Some double major combinations can be completed within the minimum 120 credit hour degree requirement, but in other cases additional course work may be required. Please note that students will receive only one degree unless completing the dual degree (<https://catalog.canisius.edu/undergraduate/>

[academics/curricular-information/](https://catalog.canisius.edu/undergraduate/)) requirement including at least 150 undergraduate credit hours, regardless of the number of majors they complete. Both (all) majors appear on a student's transcript.

Minors in Other Disciplines

Minors provide students the opportunity to pursue additional interests but generally do not require as many courses as a major. Minors generally range from five to eight required courses. To receive a minor, the student must complete at least 9 credit hours of coursework distinct from their other credentials (i.e., majors, other minors). The complete list of minors is available on the Canisius website (<https://www.canisius.edu/academics/programs/undergraduate/?type%5B%5D=17>) and in the catalog (<https://catalog.canisius.edu/undergraduate/minors/>) and provides links to each minor. Some majors and minors can be completed within the minimum 120 credit hour degree requirement, but in some cases additional coursework may be required. Students must complete the appropriate minor request form.

BA Curriculum

An Ignatian Foundation

All undergraduate students must complete either the Canisius Core Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/core-curriculum/>) or the All-College Honors Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/all-college-honors-program/>). Many schools refer to their college-wide undergraduate requirements as "general education" requirements. We believe that the core curriculum and the honors curriculum are more than a series of required classes; they provide the basis for a Jesuit education both with content and with required knowledge and skills attributes that are central to our mission.

Free Electives

Students may graduate with a bachelor's degree with more but not less than 120 credit hours. Free electives are courses in addition to the Canisius Core Curriculum or All-College Honors Curriculum and major requirements sufficient to reach the minimum number of credits required for graduation. The number of credits required to complete a bachelor's degree may vary depending on the student's major(s) and minor(s).

Major Requirements

Code	Title	Credits
Required Courses		
PSY 101	Introduction to Psychology I	3
PSY 102	Introduction to Psychology II	3
PSY 201	Basic Statistics for Behavioral Sciences	3
PSY 202	Research Methods in Psychology	3
Area 1: Neuroscience & Cognition		
Select one of the following:		3
PSY 324	Cognitive Psychology	
PSY 391	Biopsychology of Stress	
PSY 397	Neurobiology of Mental Disorders	
PSY 398	Neurobiology of Childhood Mental Disorders	
PSY 410	Fundamentals of Human Neuropsychology	
Area II: Developmental & Psychosocial		
Select one of the following:		3
PSY 203	Lifespan Developmental Psychology	
PSY 302	Personality Psychology	

PSY 303	Abnormal Psychology	
PSY 318	Social Psychology	
PSY 323	Motivation and Emotion	
PSY 384	Child & Adolescent Psychopathology	
Area III: Outcomes & Applications		
Select one of the following:		3
PSY 229	Industrial/Organizational Psychology	
PSY 329	Leadership and Motivation	
PSY 334	Child, Family and Community Psychology	
PSY 373	Behavior Modification	
PSY 395	Assessment in the Behavioral Sciences	
PSY 452	Techniques of Counseling	
PSY 453	Theories of Counseling	
Psychology Electives: Any three psychology courses listed in the catalog or substitutions approved by the department chairperson		9
Total Credits		30

Note: All students must complete a "Senior Assessment Exam" during the second semester of their senior year to complete the degree requirements

BS Curriculum

An Ignatian Foundation

All undergraduate students must complete either the Canisius Core Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/core-curriculum/>) or the All-College Honors Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/all-college-honors-program/>). Many schools refer to their college-wide undergraduate requirements as "general education" requirements. We believe that the core curriculum and the honors curriculum are more than a series of required classes; they provide the basis for a Jesuit education both with content and with required knowledge and skills attributes that are central to our mission.

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Major Requirements

Code	Title	Credits
Required Courses		
PSY 101	Introduction to Psychology I	3
PSY 102	Introduction to Psychology II	3
PSY 201	Basic Statistics for Behavioral Sciences	3
PSY 202	Research Methods in Psychology ¹	3
PSY 401	Advanced Statistics Seminar ²	3
PSY 402	Applying Research Methods in Psychology ³	3
Application of Psychology		
Choose one of the following		3
PSY 495	Guided Research in Psychology ⁴	
PSY 498	Psychology Practicum	
PSY 497	Advanced Research Methods in Psychology ⁵	

Area I: Neuroscience & Cognition

Select one of the following:		3
PSY 324	Cognitive Psychology	
PSY 391	Biopsychology of Stress	
PSY 397	Neurobiology of Mental Disorders	
PSY 398	Neurobiology of Childhood Mental Disorders ⁶	
PSY 410	Fundamentals of Human Neuropsychology ⁷	
Area II: Developmental & Psychosocial		
Select one of the following:		3
PSY 203	Lifespan Developmental Psychology	
PSY 302	Personality Psychology	
PSY 303	Abnormal Psychology	
PSY 318	Social Psychology	
PSY 323	Motivation and Emotion	
PSY 384	Child & Adolescent Psychopathology	
Area III: Outcomes & Applications		
Select one of the following:		3
PSY 229	Industrial/Organizational Psychology	
PSY 329	Leadership and Motivation	
PSY 334	Child, Family and Community Psychology	
PSY 373	Behavior Modification	
PSY 395	Assessment in the Behavioral Sciences	
PSY 452	Techniques of Counseling	
PSY 453	Theories of Counseling	
Psychology Electives		
Students may take any three psychology courses listed in the catalog. Substitutions of other courses may be possible but require approval by the department chairperson		9
Total Credits		39

Note: All students must complete a "Senior Assessment Exam" during the second semester of their senior year to complete the degree requirements

- ¹ Please note that PSY 201 is a prerequisite course for PSY 202
- ² Please note that PSY 401 requires a minimum grade of B- in PSY 201
- ³ Please note that PSY 202 is a prerequisite course for PSY 402
- ⁴ Please note that junior or senior status, permission of the instructor and completion of PSY 101, PSY 102, PSY 201 and PSY 202 are prerequisites for PSY 495
- ⁵ Please note that junior or senior status, permission of the instructor, and completion of PSY 101, PSY 102, PSY 201, PSY 202 and PSY 401 are prerequisites for PSY 497
- ⁶ Please note that PSY 398 requires a minimum grade of C in PSY 397 or BIO 114 or permission of the instructor
- ⁷ Please note that a PSY 410 requires a minimum grade of C in PSY 101 or PSY 102, BIO 111 or BIO 114 or BIO 345 or permission from the instructor

Roadmap

Recommended Semester Schedule for Major Course

Freshman

Fall	Spring
PSY 101	PSY 102

Sophomore

Fall	Spring
PSY 201	PSY 202

Psychology Area Course (I, II or III)	Psychology Area Course (I, II or III)
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Junior

Fall	Spring
Psychology Area Course (I, II or III)	Psychology elective
PSY 401 (BS students only)	PSY 402 (BS students only)

Senior

Fall	Spring
Psychology elective	Psychology elective

Psychology Practical Experience (BS students only)¹

¹ This requirement may be completed with 3 or more credits of PSY 495, PSY 497, or PSY 498.

Learning Goals and Objectives

Student Learning Goal 1

Students will demonstrate knowledge in selected discipline-specific content areas of psychology.

Students will:

- **Objective A:** demonstrate knowledge in learning theory, cognition, and memory;
- **Objective B:** demonstrate knowledge of sensation and perception, and physiological psychology;
- **Objective C:** demonstrate knowledge in the areas of clinical and abnormal psychology as well as personality theory;
- **Objective D:** demonstrate knowledge of social and developmental psychology

• Student Learning Goal 2

Students will demonstrate abilities related to scientific inquiry in psychology.

Students will:

- **Objective A:** demonstrate knowledge of basic research methods;
- **Objective B:** use basic statistics to test hypotheses and correctly interpret the results of their analyses;
- **Objective C:** think critically about psychological phenomena and research;
- **Objective D:** demonstrate the communication skills, information literacy, and technology literacy necessary for conducting and interpreting scientific psychological research.

Student Learning Goal 3

Students will demonstrate knowledge of psychological ethics and social responsibility.

Students will:

- **Objective A:** demonstrate knowledge of the APA code of Ethics in the treatment of human and nonhuman research participants;
- **Objective B:** demonstrate knowledge of ethical guidelines within the context of academic and professional psychology.

Minors

The Psychology Department offers several psychology minors:

Child, Family and Community Studies (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/sociology/social-sciences-minor-child-family-community-studies/>)

Clinical/Counseling Psychology Minor: Child/Adolescent Populations (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/clinical-counseling-psychology-child-adolescent-minor/>)

Clinical/Counseling Psychology Minor: Adult Populations (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/clinical-counseling-psychology-adult-minor/>)

Forensic Psychology Minor (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/forensic-psychology-minor/>)

General Psychology Minor for Non-Majors (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/psychology-minor/>)

Industrial/Organizational Psychology Minor (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/Industrial-Organizational-minor/>)

Neuropsychology Minor (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/neuropsychology-minor/>)

Psychology Minor (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/psychology-minor/>)

School Psychology (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/school-psychology/>)

Sports Psychology (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/psychology/sports-psychology-minor/>)

Courses

PSY 101 Introduction to Psychology I 3 Credits

The study of behavior from a psychological perspective. Topics include methods of psychological inquiry, motivation and emotion, thinking and language, learning, memory and physiological basis of behavior. Students taking PSY 101 are expected to be available for participation in research studies or equivalent activity.

Offered: every fall.

PSY 102 Introduction to Psychology II 3 Credits

The study of behavior from a psychological perspective. Topics include methods of psychological inquiry, human development, social behavior, psychological testing, personality, psychopathology and psychotherapy. May be taken before PSY 101. Students taking PSY 102 are expected to be available for participation in research studies or equivalent activity.

Fulfills College Core: Field 5 (Social Sciences)

Offered: every spring.

PSY 201 Basic Statistics for Behavioral Sciences 3 Credits

Descriptive statistics, probability, sampling distributions, hypothesis testing and inferential statistics. SPSS for Windows.

Offered: fall & spring.

PSY 202 Research Methods in Psychology 3 Credits

Philosophical measurement and statistical concepts of common methods of experimental and non-experimental research. Design and execution of project required.

Prerequisite: PSY 201 or equivalent.

Offered: fall & spring.

PSY 203 Lifespan Developmental Psychology 3 Credits

This course is designed to give an introductory overview of lifespan developmental psychology. We begin with neonatal development and end with aging and death. At each period in the lifespan we discuss physical, cognitive, emotional, and social development. By the end of the course, you will be able to identify how human psychological development progresses across the lifespan, explain fundamental historical theories of human development, and describe important scientific research in the field. We also discuss the impact discrimination, economic disadvantage, and other social justice issues can have on development.

Offered: every fall & spring.

PSY 229 Industrial/Organizational Psychology 3 Credits

Selection, evaluation and training of personnel, facilitation of group dynamics on the job, leadership, worker motivation and effects of workplace environment on performance and morale. Emphasis on student career development.

Offered: occasionally.

PSY 270 Psychobiography 3 Credits

This course will provide a forum to understand the life of an individual, a literary figure, or a historical period through the use of psychological science. At the same time, it facilitates the critical evaluation of psychological theory by examining where theory and research work in real-world contexts.

Offered: occasionally.

PSY 302 Personality Psychology 3 Credits

Covers modern theories on what personality is, different ways of approaching and assessing personality, how personality develops across the lifespan, causes of individual differences in personality, and the many important things personality influences such as physical and psychological health.

Offered: once a year.

PSY 303 Psychopathology 3 Credits

Overview of the clinical symptoms associated with adult psychiatric disorders identified in the Diagnostic and Statistical Manual, 5th Edition (DSM-V). Factors associated with the development of the various types of psychopathology are examined and empirically validated treatments for these conditions are reviewed. The impact of mental illness on those afflicted, their family members and society is examined.

Offered: every fall & spring.

PSY 310 Applied Behavioral Analysis 3 Credits

This course focuses on the principles of applied behavior analysis and their application in classroom and home environments. Students receive in-depth instruction in functional behavioral assessments as well as the application of ABA principles to intervention, skill acquisition, and data management.

Offered: once a year.

PSY 312 Autism Spectrum Disorders and Developmental Disabilities 3 Credits

This course provides an in-depth review of the characteristics and features of autism spectrum disorders (ASD) and their impact on the adaptive, social, emotional, and behavioral functioning of individuals with ASD. Additionally this course will cover treatments and interventions for individuals with ASD. Attention will be given to etiology, myths, assessment, research-based interventions, program models, and legal issues.

Offered: once a year.

PSY 318 Social Psychology 3 Credits

This course will examine scientific research on how individuals' thoughts and emotions influence social behavior. Topics will include persuasion, stereotyping and prejudice, social identity, aggression, and relationships.

Offered: once a year.

PSY 320 Cultural Psychology 3 Credits

Humans learn from our cultures in all aspects of our lives. Choosing a mate, political attitudes, prejudices, and even basic perceptions all depend on cultural learning. In all our actions we rely on ideas, values, strategies, feelings, and goals that have been shaped by our cultures. We cover both the psychological universals and the variations across cultures.

Fulfills College Core: Core Capstone

Offered: fall & spring.

PSY 323 Motivation and Emotion 3 Credits

Covers behavioral, cognitive and physiological theories of motivation and emotion with special focus on humanistic motivational theories. Through course activities and assignments, students will apply the theories learned in class to their own behaviors, examine the nature and progress made on their personal goals during the semester and understand the dynamic interplay between goal-directed behavior and emotion.

Offered: spring.

PSY 324 Cognitive Psychology 3 Credits

The psychological processes that enable us to acquire, store, retrieve and use knowledge. Topics include perception, attention, memory, language, thinking, and decision making. Applications in education, psychopathology.

Offered: once a year.

PSY 329 Leadership and Motivation 3 Credits

Determinants of leadership effectiveness, factors influencing effectiveness in maintaining leadership position, influencing followers and accomplishing group objectives. Emphasis on communication competencies, group interaction, experiential learning.

Prerequisite: PSY 101 or PSY 102, & junior or senior standing.

Offered: spring.

PSY 334 Child, Family and Community Psychology 3 Credits

Focuses on the prevention of mental, emotional and behavioral disorders through the study of family and community influences on the developing child. Risk and preventive factors are examined and interventions at the family and community level are explored. Introduces students to the field of community psychology and offers meaningful ways for students to apply concepts. Also counts for CRJ credit.

Offered: every fall.

PSY 340 Stereotyping and Prejudice 3 Credits

This course will examine stereotyping, prejudice, and discrimination from a social psychological perspective. This will include a focus on both individual differences and situational influences on stereotyping and prejudice, as well as a consideration of the cognitive and emotional factors that can promote or inhibit these processes.

Fulfills College Core: Diversity

Offered: Occasionally.

PSY 352 Learning Psychology 3 Credits

This course focuses on historical and contemporary perspectives of learning, with special attention given to behavioral, cognitive, social cognitive, and constructivist approaches. Biological, motivational and affective aspects of learning are also presented. Relevant basic and applied research will be covered, along with practical applications for daily living.

Offered: occasionally.

PSY 360 Psychology and Law 3 Credits

Examines issues of considerable importance to the criminal justice system using empirical techniques from psychology. Topics include the conviction of the innocent, lie detection, the death penalty, the insanity defense, civil commitment, eyewitness memory, false and repressed memories, children in the courtroom, jury decision-making, and expert testimony.

Offered: spring of even-numbered years.

PSY 365 Psychology of Aging 3 Credits

This course examines the developmental changes experienced during late life. We begin by examining the demography and science of aging. We then turn to the normative physical, cognitive, and psychosocial changes that come with aging. We also consider variability in normative age related changes. We examine the fine threshold between function and disability as well as important issues in late life such as long-term care and death & dying. Throughout the semester we engage with these topics with a variety of hands-on learning and lecture experiences to augment our excellent text. In particular, we address the unique challenges of aging for marginalized groups in a series of immersive projects.

Fulfills College Core: Core Capstone

Offered: occasionally.

PSY 370 School Psychology 3 Credits

This course is an introduction to the field of school psychology including historical foundations, current issues, principles of assessment and service delivery models. This course focuses heavily on applying current research and evidence-based practice for children with behavioral, emotional, developmental and learning problems in schools. Issues involving schools as systems, cultural diversity, human exceptionality, professional standards, legal/ethical considerations, and the interrelationship between general and special education are emphasized.

Prerequisite: PSY 203.

Offered: every fall.

PSY 373 Behavior Modification 3 Credits

A study of the principles of conditioning and learning as applied to practical approaches of behavior management and change. Students will learn how to conduct a functional analysis of problematic behavior and how to apply evidence based behavior-change techniques. Self-regulation and cognitive-behavioral techniques will also be discussed.

Offered: every fall.

PSY 375 Psychology of Addiction 3 Credits

This course aims to deepen and broaden students' understanding of addiction. Specific attention will be paid to investigating the similarities and differences between chemical/substance addictions and behavioral/process addictions. Addiction to tobacco, alcohol, hard drugs, food eating, gambling, internet (and other electronic media), shopping, love, sex, exercise and work will be examined. The etiology of addiction will be studied, including biological and genetic factors, family and community issues, and societal and cultural influences. The consequences of addiction, as well as prevention and treatment approaches, will be examined at the individual, family, community, and societal levels. This course will draw on current research in the area of addiction, and will emphasize critical thinking and analysis of the current controversies in the field.

Offered: every spring.

PSY 377 Psychology of Violence and Aggression 3 Credits

This course will focus on violence and aggression using a multidisciplinary approach. We will explore developmental, psychological, sociological, physiological, and cultural theories that are used to understand the roots and consequences of violence and aggression. We will examine aggression and violent behavior across the lifespan, exploring the etiology of violence and aggression. More specifically, the course will help students examine the interactions between biology, psychology and our social world that may place individuals at risk for engaging in aggressive or violent acts or may serve as protective factors for violence and aggression. Through this understanding we will examine responses to and interventions for aggression and violence. We will also explore the impact on the victims and representations of aggression and violence in media.

Offered: every fall.

PSY 380 Science and Pseudoscience in Psychology: Thinking Critically 3 Credits

This course will provide students with the skills needed to scientifically evaluate fringe-science, paranormal, and otherwise unorthodox claims about human behavior that regularly appear in popular culture and in the popular media. A major focus of the course will be on biases and heuristics in cognition that are typically adaptive but that also lead to predictable errors in reasoning.

Fulfills College Core: Field 5 (Social Sciences)

Offered: Every spring.

PSY 384 Child & Adolescent Psychopathology 3 Credits

This course will introduce students to the signs and symptoms of various psychiatric disorders of childhood and adolescence (e.g., conduct disorder, ADHD). Factors correlated with the development of these disorders are reviewed and empirically validated treatments for these conditions are discussed.

Prerequisite: A grade of C- or higher in PSY 101, PSY 102, and PSY 303.

Offered: every fall.

PSY 391 Biopsychology of Stress 3 Credits

This course is designed to give students an understanding of the anatomical, physiological and psychological components and effects of short-term and long-term stress. Material includes effects of stress on cardiovascular, digestive, reproductive, endocrine, and immune systems as well as factors that modulate the stress response.

Offered: once a year.

PSY 392 Prosocial Behavior 3 Credits

This course will examine the scientific evidence for what motivates people to behave in ways that benefit others. Topics include altruism, psychopathy, preferences for fairness, and the neuroscientific underpinnings of morality.

Fulfills College Core: Justice

Offered: Fall

PSY 395 Assessment in the Behavioral Sciences 3 Credits

Addresses fundamentals of classic test theory, scaling, reliability, and validity and provides an overview of measures of intelligence, achievement, and personality for clinical, educational, and research use.

Prerequisite: PSY 201.

Offered: fall & spring.

PSY 396 Behavior Intervention/Spec Pop 3 Credits

This RBT course has been designed for individuals that meet the eligibility requirements of the Behavior Analyst Certification Board (e.g., the person must possess a high school degree). This course is a hybrid course designed to teach you the basic principles, procedures and the underlying philosophy of ABA delivered in class and online. This training program is based on the Registered Behavior Technician Task List and is designed to meet the 40-hour training requirement for the RBT credential. The program is offered independent of the BACB.

Offered: occasionally.

PSY 397 Neurobiology of Mental Disorders 3 Credits

Examines the role of the putative biological underpinnings of the symptoms, etiology and treatment of various mental disorders. Includes introduction to neuroanatomy, neurophysiology, and neurotransmitter systems.

Prerequisite: PSY 101 or PSY 102, or permission of instructor.

Offered: every fall.

PSY 398 Neurobiology of Childhood Mental Disorders 3 Credits

This course is a sequel to Neurobiology of Mental Disorders and focuses on the neurobiological underpinnings of several developmental and other mental disorders affecting children today. There is extensive discussion of the role of a variety of prenatal and postnatal stressors in the development of mental disorders.

Prerequisite: Minimum grade of C in PSY 397 or BIO 114 or BIO 345 or Permission of Instructor.

Offered: every spring.

PSY 401 Advanced Statistics Seminar 3 Credits

Topics include bivariate and multiple regression, least-squares estimation, model-building techniques, assumptions and diagnostics, mediation and moderation, the logistic model and exploratory factor analytic techniques. SPSS will be used throughout. Students will conduct a final research project through secondary analysis of a large national data set.

Prerequisite: Minimum grade of B- in PSY 201.

Offered: every fall.

PSY 402 Applying Research Methods in Psychology 3 Credits

This course is designed to provide students with hands-on practice with experimental research methods in psychology. Students will learn how to plan, conduct, and analyze their own experimental research, and develop the knowledge and skills to apply and critique the scientific method across a variety of settings.

Prerequisite: PSY 202.

Offered: every spring.

PSY 410 Fundamentals of Human Neuropsychology 3 Credits

An advanced course that provides students with a perspective on the neural mechanisms underlying behavior. Material covered in the course will include (but not be limited to) structure and function of the brain from the cellular to the structural levels, brain imaging techniques, and brain development, plasticity and neurological disorders.

Prerequisite: Minimum grade of C in PSY 101 or 102 or BIO 111 or BIO 114 or BIO 345 or Permission of Instructor.

Offered: spring.

PSY 452 Techniques of Counseling 3 Credits

Examines the therapeutic relationship and traditional counseling and psychotherapy skills. Provides the opportunity to practice counseling strategies in an encouraging and supportive environment. Assists in the development of effective communication skills applicable in professional, general human services, and nonprofessional helper roles. Assessment and treatment strategies, used to address the most common disorders encountered in counseling, are studied.

Offered: every fall.

PSY 453 Theories of Counseling 3 Credits

Explores classic and contemporary theories of counseling. Cultural competency and empirical research are examined. Counseling approaches for specific diagnoses are discussed. Relates theories to students' personal experiences and observations of others. Assists students with exploring their personal views regarding therapeutic change.

Offered: spring.

PSY 495 Guided Research in Psychology 1-6 Credits

Opportunity for students interested in designing and conducting empirical research to collaborate with faculty in research activities leading to undergraduate or professional conference presentations and possible publication.

Prerequisite: PSY 101, PSY 102, PSY 201, PSY 202, junior or senior status, & permission of instructor.

Offered: fall, spring, & summer.

PSY 497 Advanced Research Methods in Psychology 3 Credits

Intended for advanced students with the interest of understanding applied data management, analysis, and open science. Students will identify a dataset they want to work with over the semester and preregister and archive their project rationale, hypotheses, and analytic plan following best practices in open science. Students will present their project at Ignatian Scholarship Day. The course will provide an introduction to the programming language R and to the Open Science Framework.

Offered: spring of even-numbered years.

PSY 498 Psychology Practicum 3-6 Credits

Practicum allows students to engage in an extensive real-world learning experience in an organizational context relevant to Psychology. Placements include positions in such areas as schools, human resources, marketing, social services, as well as medical and forensic settings. Students increase their mastery of specific areas of Psychology by using theories and practices in these applied settings. The opportunity to work at a professional site helps students develop appropriate work standards, explore career options, and build mentor and other network relationships in the workplace. Students are required to spend 120 hours at their practicum site over the course of the semester. Supervision is provided by an on-site staff as well as a faculty advisor. For more information regarding this course and the application process, please contact the Psychology Department.

Prerequisite: permission of chair or supervising faculty member. **Restriction:** Second semester junior or senior status; 3.0 minimum GPA.

Offered: every fall, spring, & summer.

PSY 499 Independent Study 3 Credits

Independent studies allow in-depth study of a specific topic and are most often reserved for seniors who cannot otherwise fulfill a graduation requirement. Independent studies require an application and approval by the associate dean.

Prerequisite: permission of the instructor, department chair, & associate dean.

Offered: fall, spring, & summer.

3+2 Psychology/MS Social Work Articulation with University at Buffalo

Student majoring in Psychology may choose to accelerate their professional preparation by applying for admission the Master of Social Work (MSW) program at the University at Buffalo before completing their undergraduate degree. Social Work is a challenging field that applies psychology theories and methods to the practical needs of people in our community. The 3+2 program reduces the time needed to complete the two degrees by one year without sacrificing the academic quality and liberal arts core of a Canisius University education; courses from the first year in the MSW program

count as the student's fourth year free electives at Canisius University. Interested students must meet with their Psychology department advisor to plan their courses and to ensure that they are fulfilling all MSW admission requirements. Eligibility will be determined by October 1 of the year preceding entry into the MSW program, and the student must then apply separately to the University at Buffalo program. Admission is contingent upon meeting

Curriculum

An Ignatian Foundation

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Free Electives

Students may graduate with a bachelor's degree with more but not less than 120 credit hours. Free electives are courses in addition to the Canisius Core Curriculum or All-College Honors Curriculum and major requirements sufficient to reach the minimum number of credits required for graduation. The number of credits required to complete a bachelor's degree may vary depending on the student's major(s) and minor(s).

Major Requirements

- Ninety (90) credit hours must be completed at Canisius University, including all major course required for the BA or BS in Psychology. Eligible students must meet these criteria:
- Twenty four (24) liberal arts credit hours (6 credit hours in social or behavioral sciences, 6 credit hours in the arts or humanities, 12 credit hours in any liberal arts disciplines, included the first two categories listed here).
- All Core Curriculum course requirements
- BIO 114—human biology
- GPA of 3.0 or higher (preferred)
- Volunteer and/or internship activities
- The University at Buffalo ensures that its own degree requirements for the MSW program are met.

3+2 BA/MSW Roadmap

Recommended Semester Schedule for Major Course

Freshman

Fall	Spring
ENG 111	ENG 112
RST 101	PHI 101
Attribute: Global Awareness	Field 7: Mathematical Sciences
PSY 101	PSY 102 (Field 5: Social Sciences)
PSY 201	PSY 202

Sophomore

Fall	Spring
Field 1: Religious Studies and Theology	Field 2: Philosophy

Attribute: Justice	Attribute: Ethics
Skills: Advanced Writing-Intensive	Attribute: Diversity
Major Area 1 course	Major Area 3 course
Major Area 2 course	Major Elective 1
Junior	
Fall	Spring
Field 3: Literature and Arts	Field 4: History
Filed 5: Social Sciences	BIO 114 (Field 6: Natural Sciences)
Skills: Oral Communication	Major Elective 3
Major Elective 2	Elective
Elective	Capstone
Senior	
Fall	Spring
1st year MSW courses taken at UB	1st year MSW courses taken at UB
SW 500: Social Welfare History and Policy	SW 503: Diversity and Oppression
SW 505: Theories of Human Behavior and Development	SW 506: Theories of Organizational Behavior and Development
SW 510: Scientific Methods in Social Work	SW 514: Evaluation in Social Work
SW 520: Interventions I	SW 521: Interventions II
SW 550: Field Instruction	SW 551: Field Instruction II
SW 555: Field Seminar	SW 555: Field Seminar

3+2 BS/MSW Roadmap

Recommended Semester Schedule for Major Course

Freshman

Fall	Spring
ENG 111	ENG 112
RST 101	PHI 101
Attribute: Global Awareness	Field 7: Mathematical Sciences
PSY 101	PSY 102 (Field 5: Social Sciences)
PSY 201	PSY 202

Sophomore

Fall	Spring
Field 1: Religious Studies and Theology	Field 2: Philosophy
Attribute: Justice	Attribute: Ethics
Skills: Advanced Writing-Intensive	Attribute: Diversity
Major Area 1 course	Major Area 3 course
Major Area 2 course	Major Elective 1
Junior	
Fall	Spring
Field 3: Literature and Arts	Field 4: History
Skills: Oral Communication	BIO 114 (Field 6: Natural Sciences))
PSY 401	PSY 402
Major Elective 2	Application of Psychology
Major Elective 3	PSY 495, 497, or 498
	Capstone

Senior

Fall	Spring
1st year MSW courses taken at UB	1st year MSW courses taken at UB

SW 500: Social Welfare History and Policy	SW 503: Diversity and Oppression
SW 505: Theories of Human Behavior and Development	SW 506: Theories of Organizational Behavior and Development
SW 510: Scientific Methods in Social Work	SW 514: Evaluation in Social Work
SW 520: Interventions I	SW 521: Interventions II
SW 550: Field Instruction	SW 551: Field Instruction II
SW 555: Field Seminar	SW 555: Field Seminar

3+3 Accelerated BA/BS-JD Program

Director: Robert Klump (klumpr@canisius.edu), Esq. at 716.888.2884

The 3+3 Accelerated BA/BS-JD program (<https://www.canisius.edu/academics/programs/pre-law/33-accelerated-ba-or-bs-plus-jd/>) through the University at Buffalo School of Law (<https://www.law.buffalo.edu/admissions/3-plus-3.html>) is open to a variety of majors. By participating, you can:

- Complete your undergraduate education and law degree in less time (and for less cost) than the 7 years typically required
- Become fully eligible for scholarships and grants offered to qualified incoming students at the University at Buffalo School of Law
- Upon successful completion of the first-year curriculum at UB Law School, a student's credits for the year will be transferred to Canisius to complete his or her bachelor's degree which will then be conferred by Canisius.

Eligibility

This unique program is open to pre-law students who:

- Plan to major in Criminal Justice (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/criminal-justice/>), Economics (BA) (<http://catalog.canisius.edu/undergraduate/wehle-school-business/economics/>), English (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/english/>), Environmental Studies (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/environmental-studies/>), History (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/history/>), Philosophy (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/philosophy/>), Psychology (BA) (p. 1), Political Science (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/political-science/>), Sociology (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/sociology/>), Strategic Communication (<http://catalog.canisius.edu/undergraduate/college-arts-sciences/communication-studies/>).
- Take the LSAT or GRE no later than January of their junior year*
- Apply to the UB School of Law no later than February 1 of their junior year
- Complete all academic requirements toward their major by the end of their junior year
- Maintain a cumulative GPA at Canisius of 3.5 or higher

**The LSAT score must be at or above the median LSAT score for the UB School of Law's previous year's enrolled class or the GRE score must be at or above the 70th percentile for Verbal Reasoning and the 40th percentile for Quantitative Reasoning.*

For more information, contact the Raichle Center director.

3+3 Psychology BA/JD Roadmap

Freshman

Fall	Spring
ENG 111	ENG 112
RST 101	PHI 101
Attribute: Global Awareness	Field 7: Mathematical Sciences
PSY 101	PSY 102
Major Area 1 Course	Major Area 2 course

Sophomore

Fall	Spring
Field 1: Religious Studies and Theology	Field 2: Philosophy
Attribute: Justice	Attribute: Ethics*
Skills: Advanced Writing-Intensive	Attribute: Diversity
PSY 101	PSY 202
Major Area 3 course	Major Elective 1

Junior

Fall	Spring
Field 3: Literature and Arts	Field 4: History
Field 5: Social Sciences	Field 6: Natural Sciences
Skills: Oral Communication	Major Elective 3
Major Elective 2	Elective
Elective	Capstone

Senior

Fall	Spring
1st Year JD courses taken at UB	1st Year JD courses taken at UB
LAW 509: Torts	LAW 507: Property
LAW 501: Civil Procedure	LAW 505: Criminal Law
LAW 503: Contracts	LAW 511: Constitutional Law
LAW 515: Legal Analysis, Writing and Research I	LAW 515: Legal Analysis, Writing and Research II

ATTRIBUTES - Can be fulfilled using a variety of courses including Field of Knowledge courses and electives with attribute designation

Ethics*
Diversity
Advanced Writing Intensive - Must be at the 200-level or above
Oral Communication Skills

* Ethics is required of all students

Note: All students must complete a total of 60 hours of Arts and Science courses. We strongly recommend that all students run a Griff Audit to check for this and any other additional requirements.