

PSYCHOLOGY

Department Website: Psychology (<https://www.gonzaga.edu/college-of-arts-sciences/departments/psychology/>)

The Department of Psychology offers courses that focus on the scientific study of human and animal behavior and decision-making. The department offers a Bachelor of Arts in Psychology and a Bachelor of Science in Neuroscience.

PSYC 101 General Psychology, PSYC 202 Statistics for Psychology and PSYC 206 Scientific Principles of Psychology are **pre-requisites for most upper division courses. These courses provide students with an initial understanding and appreciation of the scientific method in psychology. General Psychology, Statistics, and Scientific Principles of Psychology constitute the lower division requirements for both the major and the minor. Students must earn a B- or better in Scientific Principles of Psychology to complete the major in Psychology.**

After taking the three lower division requirements, Psychology minors are required to complete 12 credits of upper-division psychology coursework. Majors are required to complete 24 credits of upper-division coursework, 18 of which must be selected from particular cluster areas as described below. As will be discussed below, students declaring the research concentration are required take 27 credits of upper-division coursework, 18 of which must be selected from cluster areas and 9 of which are specified courses for the concentration. Finally, majors must either pass a comprehensive examination (PSYC 499 Comprehensive) or complete independent research under faculty supervision, the results of which must be presented at a regional or national conference (PSYC 498 Comprehensive Alternate). Students usually complete the comprehensive exam or independent research during their final year-once they have completed the majority of their coursework.

Research Concentration

The Research Concentration is a special pathway within the Psychology major. This concentration is for students planning to advance onto doctoral level graduate degrees (Ph.D.) upon completing their undergraduate degree at Gonzaga. Students who declare this concentration are required to receive an A- in PSYC 206 Scientific Principles of Psychology. For upper division classes, students in the concentration will take PSYC 450 Advanced Statistics in Psychology and a two-semester advanced methods course:

1. PSYC 488 Advanced Research Design, to be taken spring of junior year;
2. PSYC 489 Advanced Research Analyses, to be taken fall of senior year

Students in the concentration must present their research at a local, regional, or national conference. Finally, students in the concentration will register for PSYC 498 Comprehensive Alternate during the semester in which they are presenting their research at a conference.

Psychology (BA) Major Program Requirements

Code	Title	Hours
Lower Division		
PSYC 101	General Psychology	3
PSYC 202	Statistics for Psychology	3

PSYC 206	Scientific Principles of Psychology	3
Upper Division		
Biological Psychology Cluster:		
PSYC 300	Biological Psychology	3
or PSYC 305	Sensation and Perception	
Learning and Cognition Cluster:		
PSYC 310	Cognition	3
or PSYC 315	Learning	
Social and Personality Cluster:		
Select two of the following:		
PSYC 318	Cultural Psychology	
PSYC 335	Social Psychology	
PSYC 340	Personality	
Developmental Psychology Cluster:		
Select one of the following:		
PSYC 345	Child Psychology	
PSYC 350	Adolescent Psychology	
PSYC 352	Emerging Adulthood	
PSYC 355	Psychology of Aging	
PSYC 357	Lifespan Development	
Clinical Health Cluster:		
Select one of the following:		
PSYC 364	Abnormal Child Psychology	
PSYC 390	Psychopathology	
PSYC 395	Clinical Neuropsychology	
PSYC 396	Health and Pediatric Psychology	
PSYC 399	Seminar: Clinical and Counseling Psychology	
Upper Division Electives:		
PSYC 300-497 (One course must be 400-level) ¹		
Comprehensive:		
PSYC 498	Comprehensive Alternate	0
or PSYC 499	Comprehensive	
Total Hours		33

¹ Majors and minors may take either PSYC 460 Testing and Measurement or PSYC 462 Psychological Assessment (*but not both*) to fulfill upper-division major/minor requirements.

Optional Concentration: Research Concentration

Code	Title	Hours
Lower Division		
PSYC 101	General Psychology	3
PSYC 202	Statistics for Psychology	3
PSYC 206	Scientific Principles of Psychology	3
Upper Division		
Biological Psychology Cluster:		
PSYC 300	Biological Psychology	3
or PSYC 305	Sensation and Perception	
Learning and Cognition Cluster:		
PSYC 310	Cognition	3
or PSYC 315	Learning	

Social and Personality Cluster:		
Select two of the following:		6
PSYC 318	Cultural Psychology	
PSYC 335	Social Psychology	
PSYC 340	Personality	
Developmental Psychology Cluster:		
Select one of the following:		3
PSYC 345	Child Psychology	
PSYC 350	Adolescent Psychology	
PSYC 352	Emerging Adulthood	
PSYC 355	Psychology of Aging	
PSYC 357	Lifespan Development	
Clinical Health Cluster:		
Select one of the following:		3
PSYC 364	Abnormal Child Psychology	
PSYC 390	Psychopathology	
PSYC 395	Clinical Neuropsychology	
PSYC 396	Health and Pediatric Psychology	
PSYC 399	Seminar: Clinical and Counseling Psychology	
Upper Division Requirements (Specific to Research Concentration):		
PSYC 450	Advanced Statistics in Psychology	3
PSYC 488	Advanced Research Design	3
PSYC 489	Advanced Research Analyses	3
PSYC 498	Comprehensive Alternate	0
Total Hours		36

Neuroscience (BS) Major Program Requirements

Code	Title	Hours
Lower Division		
BIOL 105	Information Flow in Biological Systems	3
BIOL 105L	Information Flow in Biological Systems Lab	1
BIOL 106	Energy Flow in Biological Systems	3
BIOL 207 & 207L	Genetics and Genetics Lab	4
NEUR 201	Introduction to Neuroscience	3
CHEM 101 & 101L	General Chemistry I and General Chemistry I Lab	4
CHEM 230 & 230L	Organic Chemistry I and Organic Chemistry Lab I	4
PSYC 101	General Psychology	3
Select one of the following:		5
PHYS 111 & 111L	General Physics I and General Physics I Lab	
PHYS 121 & 121L	Physics I and Physics I Lab	
Select one of the following:		5
PHYS 112 & 112L	General Physics II and General Physics II Lab	
PHYS 122 & 122L	Physics II and Physics II Lab	
Select one of the following:		3
PSYC 202	Statistics for Psychology	

MATH 121	Introductory Statistics	
MATH 221	Applied Statistics	
HPHY 205	Experimental Design and Statistics	3
Upper Division		
NEUR 399	Scientific Communications	3
NEUR 499	Neuroscience and Society	3
BIOL 376	Cellular Neurophysiology	3
HPHY 451	Systems Neurophysiology	3
HPHY 453	Neuroanatomy	3
Choose at least nine credits from any of these courses in any combination from any area. Additional courses may count toward elective credits upon permission from the Neuroscience Director. Note: Some of these courses have prerequisites that are not required by the Neuroscience major and must be fulfilled before registration.		9
Cellular and Molecular		
BIOL 331	Parasitology	
BIOL 335	Advanced Genetics:	
BIOL 337	Developmental Biology	
BIOL 341 & 341L	Human Physiology and Human Physiology Lab	
BIOL 351	Advanced Cell Biology	
BIOL 370 & 370L	Microbiology and Microbiology Lab	
BIOL 371 & 371L	Vertebrate Biology and Anatomy and Vertebrate Biology and Anatomy Lab	
BIOL 374	Immunology	
BIOL 375	Virology	
BIOL 441	Advanced Physiology	
BIOL 451 & 451L	Comparative Endocrinology and Comparative Endocrinology Lab	
BIOL 456 & 456L	Molecular Biology and Molecular Biology Lab	
CHEM 307 & 307L	Biochemistry I and Biochemistry I Lab	
HPHY 402	Clinical Exercise Physiology	
HPHY 376 & 376L	Exercise Physiology and Exercise Physiology Lab	
HPHY 452	Neuromuscular Control	
HPHY 478	Physiology of Aging	
HPHY 479	Cell and Molecular Physiology	
HPHY 485	Biomedical Engineering	
Philosophical		
PHIL 406	Philosophy of Mind	
PHIL 437	Philosophy of Time	
PHIL 478	Philosophy of Technology	
Computational		
BIOL 305	Biological Data Analysis	
CPSC 436	Biomedical Informatics and Computing	
CPSC 475	Speech and Natural Language Processing	
PHYS 456	Biophysical Systems and Modeling	
PSYC 450	Advanced Statistics in Psychology	
Behavioral		
BIOL 313	Animal Behavior	
PSYC 305	Sensation and Perception	

PSYC 310	Cognition
PSYC 315	Learning
PSYC 390	Psychopathology
PSYC 395	Clinical Neuropsychology
PSYC 364	Abnormal Child Psychology
Neuroscience	
NEUR 304-498	
Total Hours	65

Psychology Minor Program Requirements

Code	Title	Hours
Lower Division		
PSYC 101	General Psychology	3
PSYC 202	Statistics for Psychology	3
PSYC 206	Scientific Principles of Psychology	3
Upper Division		
PSYC 300-497 ¹		12
Total Hours		21

¹ Majors and minors may take either PSYC 460 Testing and Measurement or PSYC 462 Psychological Assessment (*but not both*) to fulfill upper-division major/minor requirements.

Courses

NEUR 201. Introduction to Neuroscience. (3 Credits)

This course provides a comprehensive introduction to the field of neuroscience, covering topics such as the structure and function of the nervous system, neural signaling and communication, sensory and motor systems, learning and memory, and neurological disorders. Students will also learn about research in neuroscience and the methods used to study the brain.

Prerequisites: BIOL 105 with a minimum grade of D and BIOL 105L with a minimum grade of D and CHEM 101 with a minimum grade of D and CHEM 101L with a minimum grade of D
Enrollment is limited to students with a program in Neuroscience.

NEUR 304. Teaching Assistance. (1 Credit)

May be repeated for credit.

students gain teaching experience by assisting instructors as a teaching assistant (TA) in a lecture or laboratory course. Duties may include laboratory/class set-up, in-class mentoring, grading, and quiz preparation. May be repeated. A maximum of two credits may be applied to Neuroscience electives. Usually limited to students who have earned an A or Bin the lecture portion of the course for which the student is to TA. A maximum of six credits of any combination of NEUR 304, NEUR 490, NEUR 497, and NEUR 498 can be applied to Neuroscience electives. Fall and spring. By permission only. Fall and Spring.

Prerequisites: NEUR 201 with a minimum grade of C-
Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

NEUR 380. Special Topics. (3-4 Credits)

May be repeated for credit.

Theory, research or application topics to be determined by faculty. This course may be repeated as long as the content is different than other occurrences of enrollment.

Prerequisites: NEUR 201 with a minimum grade of C-

NEUR 395. Research Assistantship. (0 Credits)

May be repeated for credit.

Undergraduate research assistantships are opportunities for students to earn a stipend while performing independent research in the laboratory of a Neuroscience faculty member.

NEUR 399. Scientific Communications. (3 Credits)

This course focuses on developing effective scientific communication skills within the field of neuroscience. Through critical analysis of primary literature, class discussions, and presentations, students will learn to communicate scientific ideas clearly and effectively. Additionally, students will develop skills in scientific writing and learn to prepare research articles, grant proposals, and other scientific documents.

Prerequisites: NEUR 201 with a minimum grade of D
Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Neuroscience.

NEUR 480. Advanced Special Topics. (3-4 Credits)

May be repeated for credit.

Advanced theory, research or application topic to be determined by faculty. This course may be repeated as long as the content is different than other occurrences of enrollment.

Prerequisites: NEUR 201 with a minimum grade of C-

NEUR 490. Directed Research. (1-3 Credits)

May be repeated for credit.

Reading material will be selected by the student after consultation with a faculty member in the program. May be repeated. A maximum of three credits may be applied to Neuroscience electives. A maximum of six credits of any combination of NEUR 304, NEUR 490, NEUR 497, and NEUR 498 can be applied to Neuroscience electives. By permission only. Fall and Spring.

Prerequisites: NEUR 201 with a minimum grade of C-

NEUR 497. Neuroscience Internship. (1-3 Credits)

May be repeated for credit.

Professional work experience in a neuroscience-related field (i.e. Neurology offices, sleep centers, neuropsychology clinics, etc.). Students are responsible for arranging placement opportunities, and gaining approval from the Neuroscience Program Director. May be repeated. A maximum of two credits may be applied to Neuroscience electives. A maximum of six credits of any combination of NEUR 304, NEUR 490, NEUR 497, and NEUR 498 can be applied to Neuroscience electives. By permission only. Fall and Spring.

Prerequisites: NEUR 201 with a minimum grade of C-

NEUR 498. Undergraduate Research. (1-3 Credits)

May be repeated for credit.

This course provides the motivated student with the opportunity to conduct an independent Neuroscience research project under the direction of a faculty member. May be repeated. A maximum of six credits may be applied to Neuroscience electives. A maximum of six credits of any combination of NEUR 304, NEUR 490, NEUR 497, and NEUR 498 can be applied to Neuroscience electives. By permission only. Fall and Spring.

Prerequisites: NEUR 201 with a minimum grade of C-

NEUR 499. Neuroscience and Society. (3 Credits)

In this senior capstone course, students will critically examine the intersection of neuroscience and society. Through readings, discussions, and presentations, students will explore how scientific advances in neuroscience impact and shape our understanding of everyday life. Students will integrate knowledge from their neuroscience major and liberal arts core to develop a comprehensive understanding of the societal implications of neuroscience research.

Prerequisites: NEUR 201 with a minimum grade of D

Enrollment limited to students with a semester level of Fourth Year (96+ credits).

Enrollment is limited to students with a program in Neuroscience.

PSYC 101. General Psychology. (3 Credits)

An overview of contemporary psychology which introduces the student to the following areas: human development, sensation and perception, motivation, learning, emotion, psychological measurement, biological basis of behavior, experimental psychology, intelligence, abnormal behavior, and personality. Format consists of lectures and discussions. Fall and Spring;

PSYC 193. FYS:. (3 Credits)

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

PSYC 202. Statistics for Psychology. (3 Credits)

An introduction to the essential statistical methods employed in psychological research. Fall and Spring

Prerequisites: PSYC 101 with a minimum grade of D

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 206. Scientific Principles of Psychology. (3 Credits)

This course introduces the fundamental methods used in psychological research. Students have an opportunity through assignments and in-class exercises to practice their understanding of the scientific principles guiding psychology. Majors must earn a grade of B- or better (course may be repeated). Research concentration students must earn an A- or better. Fall and Spring. Students must take PSYC 202 to meet the Statistics prerequisite.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 281. Special Topics. (3 Credits)

May be repeated for credit.

Topics to be determined by faculty.

Prerequisites: PSYC 101 with a minimum grade of D

PSYC 300. Biological Psychology. (3 Credits)

This course will introduce students to the biological structures and processes that are involved in psychological behavior. Students will learn about the cells, anatomy, and development of the human nervous system, and about the biological processes related to specific behaviors including perception, movement, emotion, learning, memory, and cognition.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 305. Sensation and Perception. (3 Credits)

Examines the transduction of sensory information, its processing and organization by the human nervous system, and how these processes result in perceptual experiences. Emphasis on vision and hearing.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 310. Cognition. (3 Credits)

An exploration of the psychophysics and neurophysiology of human cognition. Topics include perception, attention, memory, language, reasoning, decision making, and the representation of knowledge.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 315. Learning. (3 Credits)

Advanced survey of concepts and methods relevant to the scientific analysis of learning.

Prerequisites: PSYC 101 with a minimum grade of D

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 318. Cultural Psychology. (3 Credits)

Studies how cultural systems and mind mutually and dynamically influence each other. Cultural influences on cognition, perception, emotion, motivation, moral reasoning, and the constitution of well-being/psychopathology discussed with a view towards understanding divergent mentalities. PSYC 335 Social Psychology recommended as a pre-requisite, but not required.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 320. Seminar in Psychophysiology. (3 Credits)

Psychophysiology is a branch of psychology that uses physiological measures, such as skin conductance and heart rate, to study psychological processes, such as selective attention and emotion. In this seminar you will learn to record and psychologically interpret common psychophysiological measures including skin conductance, muscle activity, cardiovascular activity, eye movements, and cortical brain activity.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 330. Emotion. (3 Credits)

This seminar is designed to provide undergraduates with a broad foundation in current theory and research related to human emotion. Students become familiar with classic theories, current issues, methodologies and debates characterizing the study of emotion. Both intrapersonal and interpersonal dimensions of emotion are addressed. The seminar prepares students for graduate level work in the area of psychology and as such, it requires a high level of preparation for and participation during each class meeting.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 334. Comparative Psychology. (3 Credits)

Students will study the behavior of a variety of species and how their behavior relates to that of human beings.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Course Fee: 75

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 335. Social Psychology. (3 Credits)

An investigation into the impact that individuals, groups, and social structure have on individual decision-making and behavior. Fall and Spring;

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 340. Personality. (3 Credits)

A survey and critique of major theories of personality. Fall and Spring.

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 345. Child Psychology. (3 Credits)

The essentials of child psychology, representing various schools of thought based upon research on the development of children from conception to preadolescence. May include a service-learning component.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 350. Adolescent Psychology. (3 Credits)

A survey of psychological research and major theories regarding the life-span between puberty and the attainment of maturity. May include a service-learning component.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 352. Emerging Adulthood. (3 Credits)

Examines psychological development during the lifespan from post-adolescence through middle age, with an emphasis on emerging adulthood.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 355. Psychology of Aging. (3 Credits)

Explores the interaction and impact of the aging process on physiological, cognitive, and psychological changes within the individual. Topics such as the diversity of aging experiences, retirement, widowhood, coping with illness, family care giving, and mental health issues.

Prerequisites: PSYC 101 with a minimum grade of D

Enrollment limited to students with a semester level of Fourth Year (96+ credits), Second Year (26-59.99 credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 357. Lifespan Development. (3 Credits)

Lifespan development explores the physical, cognitive, and socio-emotional changes that humans experience across the lifespan from birth through old age. We address questions such as: "Is development continuous or discontinuous?"; "Are we the product of nature or nurture?"; "Do all people follow a similar trajectory or is human development marked by diversity?". Drawing on developmental, social and cognitive psychology, and an understanding of development milestones of each age period, as we investigate development we pay special attention to the roles of parents, peers, schools, and socioeconomic contexts in those processes.

Prerequisites: PSYC 101 with a minimum grade of D

PSYC 364. Abnormal Child Psychology. (3 Credits)

An overview of theory, research, and practice in developmental psychopathology. The major disorders of childhood are reviewed. Upon sufficient demand.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 365. Ethics in Psychology. (3 Credits)

Using the APA ethical guidelines for psychologists we examine the aspirational goals, the standards themselves, the history of the current standards, and how to apply them in a variety of situations faced by psychologists.

Prerequisites: PSYC 101 with a minimum grade of D

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 370. Educational Psychology. (3 Credits)

Designed to guide students in the application of psychological theory and research to work in the classroom. Includes topics such as learning, aspects of human development that influence learning, and how to structure the classroom environment to maximize learning. Upon sufficient demand.

Prerequisites: PSYC 101 with a minimum grade of D

PSYC 375. Cross-cultural Psychology. (3 Credits)

An exploration of the psychological research which seeks to understand differences and similarities in human behavior when compared across cultures and groups.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 376. Forensics. (3 Credits)

Introductory level course to the field of forensic psychology, the branch of psychology which focuses on the application of psychological research data and principles within the legal arena. Students are introduced to the process of applying psychological knowledge, concepts, and principles within the civil and criminal court systems. Includes an introduction to an overview of topics such as the history of forensic psychology, an overview of the legal system, consultation to legal parties, ethical issues, eye witness testimony, assessment, evaluation of malingering, competency in criminal proceedings, civil commitment, child custody, psychologist testimony in courtroom settings, assessment of sexual offenders, assessment of violent and homicidal behavior, treatment of crime victims, police and investigative psychology, and careers within this field. A variety of formats including lecture, readings, presentation by class members on selected topics, and guest speakers from within the legal arena. Disclaimer: Course by virtue of its topic addresses issues related to criminal activity and the subsequent legal proceedings. Although it may seem obvious, each person should consider carefully whether the content is suitable before enrolling in the course as the lectures, readings, and other materials may at times involve topics related to violence and sometimes sexual material, which may be offensive to some people.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Equivalent: CRIM 370

PSYC 380. Industrial and Organizational Psychology. (3 Credits)

May be repeated for credit.

A survey of psychology applied to the work experience. Selection, evaluation, leadership, and work motivation are among the broad range of topics covered.

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 381. Special Electives Topics. (3 Credits)

May be repeated for credit.

Topic to be determined by faculty.

PSYC 385. Behavior Management. (3 Credits)

A critical review of learning procedures used to effect behavioral change in the natural environment. Includes treatment of both normal and maladaptive behaviors.

Prerequisites: PSYC 101 with a minimum grade of D

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 390. Psychopathology. (3 Credits)

Survey of major emotional and behavior disorders; discussion of causation, symptomology, and treatment. Pre-requisite: PSYC 101 and PSYC 202 and PSYC 206

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 395. Clinical Neuropsychology. (3 Credits)

Neuropsychology is the study of the relationship between brain functioning and behavior, especially as it applies to psychopathology. The course incorporates an introduction to neuroanatomy, an overview of neuropsychological assessment, and clinical case studies.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 396. Health and Pediatric Psychology. (3 Credits)

This course is designed to cover a survey of health/pediatric psychology (i.e. studying the interface between psychological and physical processes), while simultaneously providing in-depth analysis of various topic areas (e.g. oncology, pain, etc.). Course content emphasizes many aspects of health/pediatric psychology including basic and applied research, consultation, clinical intervention, and health promotion strategies.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 397. Children: Risk and Resilience. (3 Credits)

This reading and writing intensive seminar focuses on factors and contexts that pose risks for development as well as those that promote resilience. Topics include the neuro-biological, behavioral, and social effects of child neglect, maltreatment, and other childhood trauma; an exploration of global and political issues including extreme poverty; a Children's Bill of Rights; and the research on resilience, including some promising programs to promote resilience. Recommended especially for students interested in clinical or social work with children or in teaching.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 398. Seminar: Community Psychology. (3 Credits)

Combines an emphasis on exploring alternative methods of providing mental health services in the community and the identification of conditions of risk to psychological adjustment and the prevention or lessening of risk factors. This course has a service-learning component that requires a commitment outside of the classroom. Reading/writing intensive.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology.

PSYC 399. Seminar: Clinical and Counseling Psychology. (3 Credits)

An introduction to current theory and method in clinical and counseling psychology. Reading/writing intensive. (WE Designation)

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

PSYC 400. Environmental Psychology. (3 Credits)

An exploration of the interaction between human behavior and the physical environment. Emphasis on perception, preference, and coping with less preferred environments.

Prerequisites: PSYC 101 with a minimum grade of D

PSYC 404. Psychology of Addiction. (3 Credits)

This course provides a survey of psychological theory and research regarding addictive disorders and their treatment.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 410. Marriage and Family. (3 Credits)

Individuals develop within a complex network of relationships. Among these, family relationships are especially significant due to their centrality and longevity. This course examines what we know from the empirical study of family relationships. Students are introduced to methods of studying family relationships as well as prominent theories and findings regarding marital and family functioning. Two themes span the variety of topics covered in this course: the first involves the importance of understanding the family as a system embedded in a particular socio-economic context; the second has to do with the interface between individual and family development.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 412. Family Systems: Theory and Practice. (3 Credits)

Introduces students to the theory and practice of family systems. We compare and contrast various models of family systems including transgenerational, structural, strategic, and experiential approaches. This course is especially recommended for students considering a career in a clinical context as a therapist. We apply family systems theories to clinical case studies and examine how family therapists try to bring about change. Students will have an opportunity to integrate these concepts as they begin to clarify and develop their own therapeutic framework.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 414. Group Process. (3 Credits)

Introduction to the theory and practice of group counseling and psychotherapy. Students in this course study both historical and current literature regarding the theoretical and experiential understandings of group purpose, developmental stages, dynamics such as roles, norms, and therapeutic factors, leadership orientations and process, counseling theories, group counseling methods, and skills.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 416. Psychology of Gender. (3 Credits)

A review of both the theory and empirical literature investigating the psychology of gender, including biological cognitive, developmental and psychosocial models.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Equivalent: WGST 352

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 422. Development in Diverse Environments. (3 Credits)

Students in this course explore child development across various contexts with particular emphasis on broadening students' perspectives beyond normative development in white, middle class environments. Contexts explored include poverty and homelessness, racial discrimination, diverse family contexts (e.g., divorce, parents who are homosexual), foster care and adoption, violent/war stricken environments, and cross-cultural child-rearing practices. May include a service-learning component.

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 427. Culture and Mental Health Seminar. (3 Credits)

This reading, writing, and discussion intense seminar explores the role that culture plays in the manifestation, experience, and course of mental illness and the cultural foundations for understanding such illnesses. Although not required, recommended pre-requisites are Cultural Psychology (PSYC 318) and Psychopathology (PSYC 390).

Prerequisites: PSYC 101 with a minimum grade of D and PSYC 202 with a minimum grade of D and PSYC 206 with a minimum grade of D

Equivalent: PSYC 391

PSYC 428. Seminar: Psychology of Trauma. (3 Credits)

Since the Viet Nam war, our culture has become increasingly familiar with the terms 'trauma' and 'post-traumatic stress disorder' (PTSD). But what is trauma, exactly, and what are its effects? Is the nature of the trauma (type, duration) related to its impact? As a discipline, what do we know about the onset, duration and prognosis of PTSD? What do we know about the experience of PTSD? This course addresses these questions and considers both intrapersonal (biological and cognitive) and interpersonal dimensions of trauma.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits).

Enrollment is limited to students with a major in Psychology.

PSYC 432. CIS:. (3 Credits)

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 434. Cognitive Neuroscience. (3 Credits)

Advanced discussion of how the brain performs cognitive processes (such as perception, attention, memory, and other select topics). Draws heavily on empirical studies to assess theories of brain function and neural processing.

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 449. Advanced Special Electives. (3 Credits)

May be repeated for credit.

Advanced theory, research or application topic to be determined by faculty.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 450. Advanced Statistics in Psychology. (3 Credits)**May be repeated for credit.**

An advanced treatment of topics and techniques commonly used by psychologists, including the general linear model, coding schemes, multiple correlation and regression, analysis of variance and covariance, planned and post hoc tests, and the use of statistical computer packages. Format is combined lecture/lab. Fall and/or Spring.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits), Second Year (26-59.99 credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 454. Judgement and Decision Making. (3 Credits)

What should people do? What do people actually do? In this course we investigate how and why the answers to these two questions are sometimes different. We utilize theories in social psychology and behavioral economics to gain a better understanding of why human beings often diverge from "rational" decision making processes and what consequences this has for individuals, groups, and society as a whole.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 457. Poverty and Social Class. (3 Credits)

Service learning course. We examine the social constructions of poverty and wealth and their outcomes (perceived, as well as measured) on well-being. Through our readings and students' connections to those living in poverty in Spokane we develop an understanding of the obstacles and hardships that accompanies those living in poverty.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 458. Social Relationships and Health. (3 Credits)

This course explores the most up-to-date social psychological research and theory on interpersonal relationships, with a specific focus how close relationships (and a perceived lack of social connection) impact individual health and well-being. Examples of topics explored in this course include the impact of loneliness on health and social functioning; forgiveness and sacrifice within intimate relationships; self-disclosure and social support; friendship; relationships and technology.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 460. Testing and Measurement. (3 Credits)

Emphasis on the theoretical aspects of psychological testing for test administration, construction, and evaluation. Either PSYC 460 or PSYC 462 (but not both) will count toward Psychology major and minor requirements.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 462. Psychological Assessment. (3 Credits)

Emphasis on the theoretical aspects of psychological testing for test administration, construction, and evaluation in clinical settings. Either PSYC 460 or PSYC 462 (but not both) will count toward Psychology major and minor requirements.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 465. History and Systems of Psychology. (3 Credits)

The various systematic approaches to the understanding of psychological phenomena are surveyed in historical context; such schools as structuralism, functionalism, psychoanalysis humanistic psychology, and varieties of behaviorism and cognitivism, are considered.

Prerequisites: PSYC 101 with a minimum grade of D

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 470. Behavior Analysis. (4 Credits)

The attitudes, principles, and techniques which enter into the experimental analysis of behavior. Concentrated laboratory study and the communication of experimental findings.

Prerequisites: PSYC 101 with a minimum grade of D or PSYC 315 with a minimum grade of D or EDSE 320 with a minimum grade of D

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 472. Psychology of Consciousness. (3 Credits)

This class examines the relationship between mind and brain based upon current philosophical and empirical perspectives.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 474. Seminar: Attachment Across Lifespan. (3 Credits)

Seminar course explores the basic principles of attachment theory and an analysis of attachment relationships (e.g., parent-child, romantic partners) at various points in the lifespan. May include a service-learning component. Reading/writing intensive.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 476. Seminar: Mindfulness and Psychotherapy. (3 Credits)

This course provides a survey of psychological theory and research regarding addictive disorders and their treatment.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a major in Psychology.

PSYC 478. Human Flourishing. (3 Credits)

Human Flourishing explores what is constructive, beautiful and healthy about human beings and their social interactions. This course provides familiarity with the Positive Psychology movement and what it brings to the social psychology table that helps us understand and improve ourselves and the communities in which we reside (e.g. our relationships, workplaces). Some of the section topics include: healthy relationships and their benefits, happiness as both a cause and an effect of positive outcomes, distinguishing positive emotions (e.g. awe, elevation, gratitude) and their outcomes, and the importance of personal well-being for the workplace and our economy. Reading/writing intensive.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a major in Psychology.

PSYC 485. Special Topics in Advanced T/P/R. (3 Credits)

Topic to be determined by faculty.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 488. Advanced Research Design. (3 Credits)

This class is the first in a two-class Research Concentration sequence that builds on the information presented in lower division Research Methods (PSYC 206) and Statistics (PSYC 202) classes. During this semester students will learn about ethical considerations that all Psychologists must adhere to and different research designs to describe, predict, and control behavior across a variety of subfields in Psychology. By the end of this course, all students will have formulated and proposed an empirical research study in collaboration with the course instructor and their main faculty research advisor.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a major in Psychology.

PSYC 489. Advanced Research Analyses. (3 Credits)

This class is the second in a two-class Research Concentration sequence and builds on the information presented in PSYC 488 Advanced Research Designs. During this semester students will conduct studies proposed in their PSYC 488 research proposals and learn how to analyze, write-up, and present the empirical data that they have collected from their research proposal in PSYC 488.

Prerequisites: Prerequisites exist. Refer to Zagweb.

PSYC 490. Directed Study. (0-3 Credits)

May be repeated for credit.

Directed study of special topic to include readings and practical application.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a major in Psychology.

PSYC 492. Directed Reading in Psychology. (1-3 Credits)

Directed reading of an advanced topic in the field of psychology; reports submitted, conferences attended, and examination taken at the judgment of the Directed Reading Director.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 493. Group Research Topics. (0-3 Credits)

May be repeated for credit.

Supervised research experience as a part of a research team working on a specific project under the direction and supervision of a faculty member.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 494. Tutoring. (0-3 Credits)

May be repeated for credit.

Advanced psychology students participate in the tutoring and proctoring of students who can benefit from special assistance in a particular area of psychology, especially in research methods. It is assumed that tutors and proctors have an especially good command of the subject matter. Fall and Spring.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a program in Psychology or Psychology.

PSYC 495. Practicum. (1 Credit)

May be repeated for credit.

Supervised agency experiences in one or more of the applied aspects of psychology. Only one credit may be counted toward the requirements for the Psychology major.

Prerequisites: PSYC 390 with a minimum grade of B- and PSYC 399 with a minimum grade of B-

PSYC 496. Individual Research Topics. (1-3 Credits)

May be repeated for credit.

Supervised individual research on a topic of interest to the student and approved by and arranged with a faculty member.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment is limited to students with a major in Psychology.

PSYC 497. Internship. (0-6 Credits)

May be repeated for credit.

Supervised research experience as a part of a research team working on a specific project under the direction and supervision of a faculty member.

Enrollment is limited to students with a major in Psychology or Psychology.

PSYC 498. Comprehensive Alternate. (0 Credits)

Comprehensive Alternate course is for students who have either taken PSYC 455/455L (grade of B or better) OR taken the GRE Subject Test in Psychology (test scores need to be reported at or above the 12th percentile to the Psychology Department) OR completed independent research and presented this work at a conference.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a major in Psychology or Psychology.

PSYC 499. Comprehensive. (0 Credits)

Students must take the Major Fields Test (MFT) in Psychology and score at or above the 45th percentile to pass. The MFT is administered at least once a semester by the Psychology Department.

Prerequisites: Prerequisites exist. Refer to Zagweb.

Course Fee: 40

Enrollment limited to students with a semester level of Fourth Year (96+ credits) or Third Year (60-95.99 credits).

Enrollment is limited to students with a major in Psychology or Psychology.