Psychology

Chairperson: John H. Grych, Ph.D.
Department of Psychology website (http://www.marquette.edu/psyc)

Psychology is the science that studies behavior, emotions and mental processes. Psychologists use scientific methods in an attempt to understand and change, if necessary, the way that people think, feel and behave. The Department of Psychology at Marquette University trains both undergraduate and graduate students.

There are many types of psychologists. Developmental psychologists study how people behave and change throughout life. Social psychologists are concerned with the effects of social situations on human behavior. Personality psychologists study individual differences in how people behave. Neuropsychologists study the effects of brain damage, disorder or disease on behavioral and brain function. Biological psychologists and Neuroscientists are concerned with the biological bases of behavior. Cognitive psychologists investigate memory, thought, problem solving, and the psychological aspects of learning. Clinical psychologists study ways to help individuals, couples, families and groups change problematic behavior. Industrial psychologists study the effects of the physical and social aspects of people's work environments on productivity and business. The department takes pride in having nationally recognized scholars in all of these areas. All faculty teach undergraduate courses and are involved in graduate student training.

Major in Psychology

The major in psychology consists of a total of 35 credit hours divided as follows: three required courses (11 credit hours), one course from each of the five psychology content areas (15 credit hours) and three elective psychology courses, two of which must be upper-division (9 credit hours).

Required Courses:

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Content Areas: Choose one upper-division course from each content area:

- **Developmental Psychology**: Choose one of the following courses:
  - PSYC 3101: Developmental Psychology: Conception Through Adolescence (3 credit hours)
  - or PSYC 3120: Developmental Psychology: Adulthood and Aging

- **Social Psychology**: Choose one of the following courses:
  - PSYC 3201: Introductory Social Psychology (3 credit hours)
  - or PSYC 3230: Business and Organizational Psychology

- **Cognitive Psychology**: Choose one of the following courses:
  - PSYC 3301: Learning and Behavior (3 credit hours)
  - or PSYC 3320: Cognition
  - or PSYC 4330: Human Factors Engineering

- **Clinical Psychology**: Choose one of the following courses:
  - PSYC 3401: Abnormal Psychology (3 credit hours)
  - or PSYC 3501: Theories of Personality

- **Biological Psychology**: Choose one of the following courses:
  - PSYC 3601: Biopsychology (3 credit hours)
  - or PSYC 3650: Affective Neuroscience

Elective Courses: Choose three PSYC courses, two of which must be upper-division:

Total Credit Hours: 35

Department of Public Instruction Certification - Elementary/Middle School Education

College of Education students majoring in Elementary/Middle School Education majors who wish to pursue a second major in psychology must complete a total of 35 credit hours divided as follows: three required courses (11 credit hours), one course from each of the five psychology content areas (15 credit hours) and three elective psychology courses (9 credit hours), two of which must be upper-division courses, as listed below.

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Content Areas: Choose one course from each area as listed below:

**Developmental Psychology: Required Course**
- PSYC 3101 Developmental Psychology: Conception Through Adolescence 3

**Social Psychology: Choose one of the following courses:**
- PSYC 3201 Introductory Social Psychology 3
- or PSYC 3230 Business and Organizational Psychology

**Cognitive Psychology: Choose one of the following courses:**
- PSYC 3301 Learning and Behavior 3
- or PSYC 3320 Cognition
- or PSYC 4330 Human Factors Engineering

**Clinical Psychology - Choose one of the following courses:**
- PSYC 3401 Abnormal Psychology 3
- or PSYC 3501 Theories of Personality

**Biological Psychology - Choose one of the following courses:**
- PSYC 3601 Biopsychology 3
- or PSYC 3650 Affective Neuroscience

**Elective Courses: Choose three PSYC courses, two of which must be upper-division** 9

**Total Credit Hours** 35

**Notes:**
- PSYC 3101 Developmental Psychology: Conception Through Adolescence may be taken instead of EDUC 1220 Psychology of Human Development in Children and Adolescents in a Diverse Society.
- EDUC 4217 Children and Youth with Exceptional Needs may be taken as an elective in the major as an equivalent of PSYC 3130 The Psychology of the Exceptional Child for Education primary majors only.

**Department of Public Instruction Certification - Middle/Secondary Education**

College of Education students majoring in Middle/Secondary School Education who wish to pursue a second major in psychology must complete a total of 35 credit hours divided as follows: three required courses (11 credit hours), one course from each of the five psychology content areas (15 credit hours) and three elective psychology courses (9 credit hours), two of which must be upper-division courses, as listed below.

**Required Courses:**
- PSYC 1001 General Psychology 3
- PSYC 2001 Psychological Measurements and Statistics 4
- PSYC 2050 Research Methods and Designs in Psychology 4

**Content Areas - Choose one course from each of the areas listed below:**

**Developmental Psychology - Required Course:**
- PSYC 3101 Developmental Psychology: Conception Through Adolescence 3

**Social Psychology - Required Course:**
- PSYC 3201 Introductory Social Psychology 3

**Cognitive Psychology - Choose one of the following courses:**
- PSYC 3301 Learning and Behavior 3
- or PSYC 3320 Cognition

**Clinical Psychology - Required course:**
- PSYC 3501 Theories of Personality 3

**Biological Psychology - Choose one of the following courses:**
- PSYC 3601 Biopsychology 3
- or PSYC 3650 Affective Neuroscience

**Elective Courses: Choose three PSYC courses, two of which must be upper-division** 9

**Total Credit Hours** 35

**Notes:**
- PSYC 3101 Developmental Psychology: Conception Through Adolescence may be taken instead of EDUC 1220 Psychology of Human Development in Children and Adolescents in a Diverse Society.
• EDUC 4217 Children and Youth with Exceptional Needs may be taken as an elective in the major as an equivalent of PSYC 3130 The Psychology of the Exceptional Child for Education primary majors only.

**Minor in Psychology**

The minor in psychology consists of six courses (18 credit hours), including one required course (3 credit hours) and five elective PSYC courses (15 credit hours), three of which must be upper-division courses, as listed below.

**Required Course:**

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**Elective Courses:** Choose five PSYC courses, three of which must be upper-division

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**Total Credit Hours** 18

**Department of Public Instruction Certification - Minor in Psychology**

College of Education students pursuing Department of Public Instruction certification must complete seven required courses (23 credit hours) and one upper-division elective course (3 credit hours) for a total of 26 credit hours, as listed below.

**Required Courses:**

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**Elective:** Choose one upper-division PSYC course

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**Total Credit Hours** 26

**Courses**

**PSYC 1001. General Psychology. 3 cr. hrs.**

Introduction to scientific psychology: biological bases of behavior; perception; principles of learning; intelligence and personality testing; current theories of personality; conflict, adjustment and mental health; interpersonal relations; social processes; applications of psychological principles to human affairs. Three hours of classroom instruction and one optional discussion hour for review of exams and special assistance with selected areas of course content.

**PSYC 2001. Psychological Measurements and Statistics. 4 cr. hrs.**

Logic and rationale of psychological measurement. Scales of measurement and statistical techniques. Descriptive statistics, the normal distribution and sampling theory, introduction to statistical inference. T-test, simple analysis of variance, chi square, measures of correlation. Prereq: PSYC 1001 or equiv.; three years of high school mathematics or MATH 1100 or its equiv.

**PSYC 2050. Research Methods and Designs in Psychology. 4 cr. hrs.**

Scientific methods and their application in psychology with emphasis on the experimental method. May include experimental, quasi experimental, correlational and survey designs, as well as selection and implementation of descriptive and statistical analyses, individual laboratory projects, and preparation of scientific reports. Prereq: PSYC 1001 or equivalent and PSYC 2001.

**PSYC 2101. Introduction to Life-Span Developmental Psychology for Nursing Students. 3 cr. hrs.**

Principles, theories, and research in development. The entire life-span from conception to death will be studied with emphasis on theoretical approaches and empirically obtained data. The effects of genetic, social, and environmental factors on typical development patterns. Counts towards the major in Psychology only for students with double majors in Nursing and Psychology. Prereq: PSYC 1001 or equiv.

**PSYC 3101. Developmental Psychology: Conception Through Adolescence. 3 cr. hrs.**

Examines the developing human being from conception through adolescence. The concepts, methods, and theories relevant to the study of the developing child and adolescent will be considered. Investigates the major physical, cognitive, social and emotional changes during the phase of the life course, as well as the genetic and contextual influences on development. Prereq: PSYC 1001 or equiv.

**PSYC 3120. Developmental Psychology: Adulthood and Aging. 3 cr. hrs.**

Survey of theory and research in adulthood. Emphasis on adulthood, middle age, and old age. Typical developmental patterns will be analyzed, as will genetic, social, and environmental determinants. Prereq: PSYC 1001 or equiv.

**PSYC 3130. The Psychology of the Exceptional Child. 3 cr. hrs.**

Description and psychological implications of various forms of physical and mental deviations. Educational, vocational, therapeutic and social facilities for exceptional children. May be taken for credit in special education by minors in special education-speech therapy. Prereq: PSYC 3101 or equiv.; or cons. of instr.
PSYC 3201. Introductory Social Psychology. 3 cr. hrs.
The nature and concept of social psychology. Socialization of the child. Small group behavior including conformity, leadership, problem-solving. Attitudes and attitude change, prejudice, racism and sexism. Comparative studies in social behavior. Social psychology of the research situation. Prereq: PSYC 1001 or equiv.

PSYC 3210. The Psychology of Prejudice. 3 cr. hrs.
An overview of theory and research on the psychological underpinnings of intergroup intolerance, with emphasis given to racism, sexism, and heterosexism. Prereq: PSYC 2050.

PSYC 3220. Human Sexuality. 3 cr. hrs.
The scientific study of human sexuality from both a biological and behavioral perspective. Topics include: male and female sexual anatomy and sexual functioning, conception, pregnancy, childbirth, sexual variations, and sexually transmitted diseases. Prereq: PSYC 1001 or equiv., or IWGS major or minor.

PSYC 3230. Business and Organizational Psychology. 3 cr. hrs.
Psychology applied to basic problems of industry: personnel selection, motivation, training, job satisfaction, job safety, leadership, performance appraisal, job analysis, and pertinent legal issues. Prereq: PSYC 1001 or equiv.

PSYC 3301. Learning and Behavior. 3 cr. hrs.
A comprehensive survey of methods and findings of classical and operant conditioning. Some introduction to theories of learning. Prereq: PSYC 1001 or equiv.

PSYC 3320. Cognition. 3 cr. hrs.
A systematic survey of classical and contemporary research topics in human learning; information processing, concept formation, problem-solving, verbal and motor learning. Prereq: PSYC 1001 or equiv.

PSYC 3401. Abnormal Psychology. 3 cr. hrs.
Psychological disorders are examined, including schizophrenia, mood disorders, anxiety disorders, substance use, eating disorders and personality disorders. Causes and treatments of these conditions are addressed, including psychological, biological and cultural factors. Prereq: PSYC 1001 or equiv.

PSYC 3410. Childhood Psychopathology. 3 cr. hrs.
The major types of psychological disturbances in children viewed as deviations from normal development. Causative factors in the genesis of behavior problems, with emphasis on social learning. Behavior modification techniques used with children. Prereq: PSYC 3101.

PSYC 3420. Health Psychology. 3 cr. hrs.
This course examines the psychological aspects of health and illness. Topics include health promotion, stress and coping, prevention, lifestyle and health, psychological adaptation to chronic illness and pain, rehabilitation, and health service delivery. Prereq: PSYC 2050 or PSYC 3601.

PSYC 3501. Theories of Personality. 3 cr. hrs.
The formulation of personality theory, its purpose and problems. Psychoanalytic, behavioral, humanistic, and other theories of personality and their various applications to human behavior. Review of relevant research findings. Prereq: PSYC 1001 or equiv.

PSYC 3550. Psychology of Gender Roles. 3 cr. hrs.
Biological and cultural bases of gender roles; the psychology of women and men and the consequent relationships between the sexes; the pressures of gender stereotype and the bases of non-stereotypic childrearing; implications of anthropological investigations for an understanding of sex role ascriptions; relationship between gender role and responses to sexuality; remedial education for personhood. Prereq: PSYC 2001 or IWGS major or minor.

PSYC 3560. Psychology of Religion. 3 cr. hrs.
Empirical research and findings pertinent to religion and religious experiences; psychological theories regarding religion; religious practices and experiences, religious orientation and awareness. Prereq: PSYC 1001.

PSYC 3601. Biopsychology. 3 cr. hrs.
Biological foundations of behavior with emphasis on the nervous system. Physiological mechanism in sensation, perception, motivation, emotion and learning. Functional neuroanatomy. Offered without a laboratory component. Prereq: PSYC 1001.

PSYC 3610. Animal Behavior. 3 cr. hrs.
Animal behavior, both in natural and experimental situations, emphasizing early experience, motivation, physiological mechanisms, adaptiveness and the evolution of behavior. Prereq: PSYC 1001 or equiv.

PSYC 3650. Affective Neuroscience. 3 cr. hrs.
Explores the biological foundations of emotion and other affective states. Emphasizes the role of the nervous system (including brain, hormones, neurons, physiology) in the elaboration of affective states (e.g. sexual behavior, fear, social isolation, feeding, joy, pain) in both animals and humans. Includes study of current technologies for visualizing brain processes. Prereq: PSYC 1001.

PSYC 3701. Principles of Psychological Testing. 3 cr. hrs.
PSYC 3830. The Psychology of Fantasy and Imagination. 3 cr. hrs.
Review of theoretical, experimental, and clinical literature on fantasy and imagination; development of imaginal processes; types of imagery; cerebral asymmetries and the imaging process; physiology of imagination; imagery and learning; imagery and verbal communication; role of fantasy and imagination in creativity; imagination and make believe play; function of fantasy in sexual behavior; diagnostic and therapeutic uses of fantasy and imagination; role of imagination in hypnosis. Prereq: PSYC 1001 or equiv.

PSYC 3840. Psychology of Happiness. 3 cr. hrs.
Focuses on the emerging research and theory in positive psychology on the nature of happiness. The determinants and correlates of happiness will be examined, including the role played by love, humor, forgiveness, religion, compassion, and spirituality in creating happiness. Prereq: PSYC 1001.

PSYC 3820. Learning and Memory. 3 cr. hrs.
Theoretical foundations and empirical evidence concerning the processes of learning and memory. Typically, includes the different types and neural bases of learning and memory, and factors and contexts that affect how and why we learn, remember or forget. Prereq: PSYC 3320 or PSYC 3601.

PSYC 3830. Human Factors Engineering. 3 cr. hrs.
Person-machine interactions, including sensory and motor phenomena and human limitations, controls and displays for computer-based and conventional machines, human information processing and artificial intelligence, workspace and environmental factors that influence optimal performance, relevant legal issues and human functioning in outer space. Prereq: PSYC 1001; or engineering major; or cons. of instr.

PSYC 3840. The Psychology of Death and Dying. 3 cr. hrs.

PSYC 4701. Introduction to Clinical Psychology. 3 cr. hrs.
Clinical psychology as a science and profession is discussed. Topics include the history, ethics, theories, roles and methods of clinical psychology. Also addressed are current issues concerning the practice of clinical psychology. Prereq: PSYC 3401.

PSYC 4720. Psychology of Marriage and Family. 3 cr. hrs.
Psychological theory and research pertinent to understanding marital and family functioning. Topics vary, but include the development of intimate relationships, the transition to parenthood, divorce and family violence. Prereq: PSYC 2050 or IWGS major or minor.

PSYC 4801. History and Systems of Psychology. 3 cr. hrs.
The development of psychological thinking from the 17th century to the present. The contributions of Descartes and Newton to Locke and the other British empiricists and, through them, to German mechanism and physiological psychology. The influence of Darwin, Freud, behaviorism and Gestalt psychology. The phenomenological and humanistic movement after World War II. Prereq: PSYC 1001.

PSYC 4931. Topics in Psychology. 3 cr. hrs.
Contemporary theoretical and research trends in selected contemporary areas of psychology. Topics to be announced. Prereq: Cons. of instr.

PSYC 4956. Advanced Undergraduate Research. 1-3 cr. hrs.
Readings, discussion and application of psychological research under the direction of a Psychology faculty adviser. Students are expected to review the literature on an assigned or negotiated topic and design and propose a specific research project that parallels or expands upon their semester experience. 1-3 semester credits. Course may be repeated for credit. A maximum of six credits of PSYC 4956, 4995, and 4999 combined may be counted as electives toward the minimum requirements for the major. Prereq: Cons. of instr.

PSYC 4960. Advanced Undergraduate Seminar. 3 cr. hrs.
Readings and discussion course designed to provide a high level overview of psychology with an emphasis on selected current topics. Each student will be expected to design and propose, but not necessarily conduct, a specific scholarly project. Prereq: Cons. of instr.

PSYC 4964. Field Experience in Psychology. 3 cr. hrs.
Placement in a specially selected applied setting in which the student has the opportunity to observe psychological knowledge, skills, and values demonstrated in one or more professional roles. Requires supervision in the setting and direction by the course instructor. Accompanied by seminar with readings, journals and reflections, presentations a term paper and demonstrated knowledge of appropriate ethical principles. Prereq: Sr. stndg., psychology major, and cons. of dept. ch.

PSYC 4995. Independent Study in Psychology. 1-3 cr. hrs.
Independent study and research under the direction of a faculty member. Prereq: Cons. of dept. ch.

PSYC 4999. Senior Thesis. 3 cr. hrs.
Conduct empirical research involving an original research question under the direction of a psychology faculty adviser. Open to psychology majors. Prereq: 3.000 GPA, PSYC 2050, and cons. of dept. ch.; or Sr. stndg., 3.000 GPA, and cons. of dept. ch.; grade point average of at least 3.500 in Psychology. Maximum of six credits available for PSYC 4999 alone or PSYC 4995 and PSYC 4999 combined.