

**Psychology (PSY)****Majors in Psychology****Department of Psychology, College of Arts and Sciences**

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Minors of particular interest to students majoring in Psychology: Africana Studies (AFS), Women's and Gender Studies (WST)

**Psychology (PSY)**

The study of psychology provides an understanding of the biological, cognitive, social, and clinical origins of behavior, thought, and emotion, and the methods that psychologists use to investigate these. Knowledge of psychological principles and the ability to evaluate theories and research are essential in our rapidly changing society.

The Department of Psychology offers undergraduate programs leading to a Bachelor of Science (B.S.) degree or a Bachelor of Arts (B.A.) degree. The objective of both programs is to provide a broad overview of psychology, and both require extensive exposure to areas other than psychology as a context for study in the major. The B.S. program places relatively more emphasis on the natural sciences and mathematics. Both the B.S. and B.A. programs provide excellent preparation for graduate school.

The Psychology major provides students with a background of fundamental subject matter that will equip them for subsequent graduate study in related fields. The major is also beneficial for students seeking careers that involve knowledge about interpersonal relationships such as medicine, education, law, or management. Psychology expertise is also relevant to standard business settings in which a major goal is to adapt products and services to closely reflect human needs and capabilities.

**Requirements for the Majors in Psychology (PSY)**

Completion of the major for either a B.S. or a B.A. in Psychology requires 58 to 67 credits.

All courses required for either the B.S. or B.A. degree must be passed with a letter grade of C or higher.

**Study within Psychology**

For both degree programs, 34 to 35 credits in psychology to be distributed as follows:

**1. Core Program**

- PSY 103 Introduction to Psychology
- PSY 201 Statistical Methods in Psychology, AMS 102, AMS 110, AMS 310, BUS 215, ECO 320, POL 201, SOC 202 or another statistics course approved by the department
- PSY 310 Research and Writing in Psychology

**2. Survey Courses in Psychology**

One course from Group A, one from Group B, and a third course from Group A or B:

**Group A**

- PSY 220 Survey in Developmental Psychology
- PSY 230 Survey in Clinical Psychology
- PSY 240 Survey in Social Psychology

**Group B**

- PSY 250 Survey in Biopsychology
- PSY 260 Survey in Cognition and Perception

### 3. Five PSY courses For the B.A. student:

1. One course numbered 200 or higher, excluding PSY 201, PSY 273, PSY 283, PSY 310, PSY 399, PSY 447, PSY 475, PSY 476, PSY 487, PSY 488, PSY 495-496, the discontinued PSY 300, and 200-level survey courses used to satisfy requirement #2.
2. Four more courses from among advanced courses numbered PSY 301 to 383, excluding PSY 310.

### For the B.S. student:

1. One course numbered 200 or higher, excluding PSY 201, PSY 273, PSY 283, PSY 310, PSY 399, PSY 447, PSY 475, PSY 476, PSY 487, PSY 488, PSY 495-496, the discontinued PSY 300, and 200-level survey courses used to satisfy requirement #2.
2. A laboratory course (PSY 380-383; PSY 386; PSY 389).
3. An advanced statistics (PSY 301 or AMS 315) or one of the following courses (PSY 355; PSY 356; PSY 368; BIO 334; BIO 338). The same BIO course cannot be used to fulfill the Biology concentration requirement.
4. Two more courses numbered 300 or higher, excluding PSY 310, PSY 399, PSY 447, PSY 475, PSY 476, PSY 487, PSY 488, PSY 495-496, and the discontinued PSY 300.

### 4. Upper-Division Writing Requirement

**For students pursuing the Stony Brook Curriculum (SBC)**, a course that satisfies the "Write Effectively within One's Discipline" (WRTD) learning objective must be completed in order to graduate. This WRTD requirement will routinely be satisfied by completing PSY 310. However, in special cases, co-registration for the 0-credit PSY 459 while completing a substantial paper or writing sample in another Psychology course will satisfy the WRTD requirement. A student must obtain the permission of the course instructor prior to registering for PSY 459.

Although not required for B.A. or B.S. degrees, the Department strongly recommends that any student planning to attend graduate school should gain research experience by becoming a research assistant (PSY 273). Undergraduate Research Opportunities can be found through the Department of Psychology Web page.

### 5. Courses Outside the Psychology Department

In addition to the 34 to 35 credits in psychology, students must also complete 24 to 32 credits of courses outside the Department. This requirement differs in some aspects between the B.S. and B.A. degrees.

#### For the B.A. Student

One 3-4 credit course from each of the 4 categories below:

1. Mathematics: Choose one course from the following: AMS 101, MAT 118, MAT 122, MAT 123 (or MAT 119/MAT 123), MAT 125 (or MAT 130/MAT 125), MAT 126, MAT 131, MAT 132 or any higher AMS, CSE, or MAT course approved by the department. Note: PSY 201 (or equivalent introductory statistics course) does not satisfy this requirement. Students who pass the Mathematics Placement Exam at Level 4 or above are not required to complete a course in this category.
2. Biology: Any one-semester BIO course. Note: ANP 101, HAN 200, or HAN 202 may be used as a substitute to fulfill this requirement.
3. Philosophy: Any one-semester PHI course
4. Social Sciences: Any one-semester ANT, HIS, POL, or SOC course except SOC 201 or SOC 202 or POL 201.
5. A 12-credit (minimum four courses) concentration in one of the course subjects listed below. At least two courses must be upper-division (numbered between 300 and 499). Practica, research, and internship courses do not satisfy this requirement. **The concentration requirement may also be satisfied by an approved minor or a second major in any department or program.**
  - Africana Studies (AFS)
  - Anthropology (ANT) (see Note 1)
  - Applied Mathematics and Statistics (AMS)
  - Biology (BIO) (see Note 1)
  - Computer Science (CSE)
  - Economics (ECO)
  - History (HIS)
  - Linguistics (LIN)
  - Marketing (MKT) (requires completion of two required courses: BUS 348 Principles of Marketing and BUS 448 Marketing Strategy; one elective from: BUS 334 Consumer Advertising and Promotion or BUS 302 Social Media Marketing Strategy or BUS 378: Marketing Ethics, Public Policy, & Social Change; and another elective from: BUS 359 Consumer Behavior or BUS 358 Marketing Research or independent study in research BUS 487)
  - Mathematics (MAT) (see Note 1)
  - Philosophy (PHI) (see Note 1)
  - Political Science (POL) (see Note 1)

- Sociology (SOC) (see Note 1)
- Women's, Gender, and Sexuality Studies (WST)
- Writing (requires completion of WRT 305 Writing for the Health Professions or WRT 380 Advance Research Writing plus three other upper-division writing courses)

Note 1: If a student completes a concentration in Anthropology, Biology, Mathematics, Philosophy, Political Science, or Sociology, the concentration will automatically satisfy the associated requirement listed in requirements 1 to 4 above for the B.A. student (e.g. completion of the Biology concentration also satisfies requirement number 2).

For the B.S. Student

All three categories below are required.

#### 1. Mathematics:

1. Calculus I (MAT 119/MAT 123, MAT 123, MAT 125 (or MAT 130/MAT 125), MAT 131, MAT 141, or AMS 151) and
2. Calculus II (MAT 126, 132, 142, or AMS 161)

Note: Passing the mathematics placement examination at level 8 or higher also satisfies this requirement. Ideally students should take courses in sequential pairs (i.e., MAT 125, 126).

#### 2. Biology:

1. Select two of the following lecture courses: BIO 201, 202, 203
2. Select two of the following lab courses: BIO 204, 205, 207

Note: Students who elect the Biology concentration need only take one course from Category A and BIO 204, for a total of one lecture and one lab course.

#### 3. Any two concentrations selected from the following five choices:

1. Biology: Two BIO or biology-related courses selected from the following: BIO 208, 302, 310, 312, 314, 315, 317, 320, 321, 325, 327, 328, 332, 334, 335, 336, 337, 338, 339, 350, 351, 354, 358, 359, 361, BCP 401. The following course pair counts as ONE course: HBM 320 & 321.
2. Chemistry: CHE 131/133, CHE 132/134. *Note: CHE 129+130 (together) may be used as a substitute for CHE 131*
3. Mathematics: Two courses selected from MAT courses numbered 200 or above; and 300-level AMS courses except AMS 310, 312, 315.
4. Physics: PHY 121 and 122; or PHY 125, 126, and 127; or PHY 131/133 and 132/134; or PHY 141 and 142.
5. Computer Science: CSE 114 and CSE 215.

Notes for B.A. and B.S. students:

1. Transfer students must take at least 12 credits of psychology in residence at Stony Brook.
2. No more than six credits from among PSY 273, 283, 447, and 487 may be taken in one semester. Other restrictions on applying these courses toward graduation requirements exist; consult the Undergraduate Psychology Office and see also Course Credit and Grading Option Limits in the "Academic Policies and Regulations" chapter.
3. Students interested in a major in Psychology should meet with a Psychology Department Undergraduate Advisor (Room B-109). Additional meetings should be scheduled periodically to review progress toward fulfilling Department requirements.
4. Psychology courses may be repeated only ONE time.

### Honors Program in Psychology

The Psychology honors program features:

- 1) a faculty mentor and
- 2) collaborative research with faculty which results in a senior thesis.

Departmental majors with a 3.50 g.p.a. in psychology courses, with a 3.20 cumulative g.p.a. and with the agreement of a faculty mentor to supervise the student's independent project may apply to enroll in the Psychology honors program at the end of their junior year. The student, after asking a faculty member to be a sponsor, must submit a proposal to the Psychology Department describing the research project that is to be the subject of the honors thesis. If the project is approved by the Department, the student may enroll in PSY 495 and PSY 496 in the fall and spring semesters of the senior year, respectively. The student's major paper or research project must be completed no later than two weeks prior to the end of the second semester and submitted to the Department. If the honors program is completed with distinction and the student has achieved a 3.5 g.p.a. in all psychology courses taken in the senior year, honors are conferred.

Conferral of honors in Psychology requires the following:

1. A cumulative g.p.a. of 3.00 and a 3.50 g.p.a. in psychology.
2. Successful completion of a senior thesis while enrolled in PSY 495 and 496, see below.

The Psychology honors program is followed for two semesters. During the senior year they enroll in PSY 495 (first semester) and 496 (second semester) Senior Honors Seminar.

**Sample Course Sequence for the Major in Psychology (B.A. Degree)**For more information about SBC courses that fulfill major requirements, [click here](#).**FRESHMAN**

<b>FALL</b>	<b>Credits</b>
First Year Seminar 101	1
WRT 101	3
PSY 103	3
MAT course*	4
BIO course	4
SBC	3
<b>Total</b>	<b>18</b>

<b>SPRING</b>	<b>Credits</b>
First Year Seminar 102	1
WRT 102	3
PSY Group A (220 or 230 or 240) OR PSY Group B (250 or 260)	3
PHI course	3
SOC or ANT or POL course**	3
Statistics course***	3
<b>Total</b>	<b>16</b>

**SOPHOMORE**

<b>FALL</b>	<b>Credits</b>
PSY Group B (if Group A taken) OR Group A (if Group B taken)	3
Course outside concentration (#1)	3
PSY 310	3
SBC	3
SBC	3
<b>Total</b>	<b>15</b>

<b>SPRING</b>	<b>Credits</b>
PSY Group A or B course	3
PSY 200 and above elective	3
SBC	3
SBC	3
SBC	3
<b>Total</b>	<b>15</b>

**JUNIOR**

<b>FALL</b>	<b>Credits</b>
PSY Upper-division elec. (301 to 384)	3
Course outside concentration (#2)	3
Upper-division elective	3

Upper-division elective	3
Elective	3
Elective	3
Total	18

SPRING	Credits
PSY Upper-division elective (301-384)	3
Upper-division course outside concentration (#3)	3
PSY Upper-Division elective (301-384)	3
SBC	3
Elective	3
Total	15

**SENIOR**

FALL	Credits
Upper-division outside concentration (course #4)	3
PSY Upper-division elective (301-384)	3
Upper-division elective	3
Upper-division elective	3
SBC	3
Total	15

SPRING	Credits
SBC	3
Upper-division elective	3
Upper-division elective	3
Elective	3
Elective	3
Total	15

\*Choose from among the following: AMS 101, CSE 110, MAT 118 or any higher AMS, CSE, or MAT course approved by the department. Note: PSY 201 (or equivalent introductory statistics courses) does not satisfy this requirement. Students who pass the Mathematics Placement Exam at Level 4 or above are not required to complete a course in this category.

\*\*Any course offered by these departments except SOC 202 or POL 201

\*\*\*Choose one of the following: AMS 102, ECO 320, POL 201, PSY 201, or SOC 202

**Sample Course Sequence for the Major in Psychology (B.S. Degree)**  
A course planning guide for this major may be found here.

**FRESHMAN**

FALL	Credits
First Year Seminar 101	1
WRT 101	3
PSY 103	3

MAT 125 or 131 or 141	3-4
CHE 131*	3-4
SBC	3
Total	16-18

<b>SPRING</b>	<b>Credits</b>
First Year Seminar 102	1
WRT 102	3
PSY Group A (220 or 230 or 240) OR PSY Group B (250 or 260)	3
MAT 126 or 132 or 142	3-4
SBC	3
SBC	3
Total	16-17

**SOPHOMORE**

<b>FALL</b>	<b>Credits</b>
PSY 201**	3
PSY Group B (if Group A taken) OR Group A (if Group B taken)	3
BIO 201, 202, or 203, and 204	5
SBC	3
SBC	3
Total	17

<b>SPRING</b>	<b>Credits</b>
PSY 310	4
PSY Group A or B	3
PSY elective***	3
BIO 201, 202, or 203, and 205	5
SBC	3
Total	18

**JUNIOR**

<b>FALL</b>	<b>Credits</b>
PSY advanced laboratory (380 or 381 or 382 or 383 or 384)	3-4
Science sequence elective	3
PSY Upper-division elective***	3
Upper-division elective	3
SBC	3
Total	15-16

<b>SPRING</b>	<b>Credits</b>
PSY 301 or AMS 315	3
Science sequence elective	3

Upper-division elective	3
SBC	3
SBC	3
Total	15

**SENIOR**

<b>FALL</b>	<b>Credits</b>
PSY Upper-division elective***	3
Upper-division elective	3
Upper-division elective	3
Upper-division elective	3
SBC	3
Total	15

<b>SPRING</b>	<b>Credits</b>
PSY Upper-division elective***	3
Upper-division elective	3
Upper-division elective	3
Elective	3
SBC	3
Total	15

Note: Passing a placement test at the appropriate level also satisfies the calculus requirement.

\*CHE 131 is a prerequisite to the 200-level BIO courses.

\*\* Other statistics courses allowed are AMS 102, ECO 320, POL 201, or SOC 202.

\*\*\* May not use any of the following to fulfill this requirement: PSY 273, 283, 399, 447, 475, 476, 487, 488, or 495-496.

# PSY

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## Psychology

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### PSY 103: Introduction to Psychology

An introduction to research and theory in psychology in such areas as learning, perception, cognition, biopsychology, development, personality, and abnormal and social psychology. As part of the course, students must participate in experiments and/or a library research project.

**DEC:** F  
**SBC:** CER, SBS  
3 credits

### PSY 201: Statistical Methods in Psychology

The use and interpretation of elementary statistical techniques in research, emphasizing descriptive statistics, correlational analysis, and inferential statistics, including chi-square, t-tests, and an introduction to the Analysis of Variance. May not be taken for credit after AMS 102, BIO 211, POL 201, or SOC 202. This course has been designated as a High Demand/Controlled Access (HD/CA) course. Students registering for HD/CA courses for the first time will have priority to do so.

*Prerequisites:* PSY 103; satisfaction completion of QPS or Level 2+ or higher on the mathematics placement examination

**DEC:** C  
**SBC:** QPS  
3 credits

### PSY 220: Survey in Developmental Psychology

A study of growth and change in humans. Psychological, physical, social, and cognitive changes will be considered and the role of environmental and genetic influences on development will be examined.

*Prerequisite:* PSY 103

**DEC:** F  
**SBC:** SBS+  
3 credits

### PSY 230: Survey in Abnormal and Clinical Psychology

Examines the description, etiology, course, and treatment of psychological disorders. Current theory and research are emphasized.

*Prerequisite:* PSY 103

**DEC:** F  
**SBC:** SBS+  
3 credits

### PSY 240: Survey in Social Psychology

A presentation of various topics in social psychology including interpersonal processes, obedience to authority, social perception, attitude change, attraction and liking, and aggression and violence, especially as applied to national and international issues.

*Prerequisite:* PSY 103

**DEC:** F  
**SBC:** DIV, SBS+  
3 credits

### PSY 250: Survey in Biopsychology

Introduction to the neural basis of sensory processes, motor control, attention, emotion, and learning.

*Prerequisite:* PSY 103 or ANP 101 or BIO 203

**DEC:** F  
**SBC:** SBS+, STEM+  
3 credits

### PSY 260: Survey in Cognition and Perception

A survey of theoretical and empirical work on human cognition and perception including pattern recognition, memory, attention, language comprehension, decision making, and problem solving.

*Prerequisite:* PSY 103

**DEC:** F  
**SBC:** SBS+, STEM+  
3 credits

### PSY 273: Supervised Research in Psychology

Initial training and participation in techniques or duties related to a specific laboratory or field research experience under the direct supervision of a faculty member or advanced graduate student in the Department of Psychology. Students may take two sections in a single semester, but no more than three credits may be applied to a section. May not be taken for more than six credits per faculty advisor during the student's career.

*Prerequisite:* Permission of instructor

**SBC:** EXP+  
0-6 credits, S/U grading

### PSY 283: Applications and Community Service

Designed to provide opportunities for students to study and apply psychological principles outside the classroom (e.g., in settings such as hospitals and schools). Specific programs vary from semester to semester. General information is available in the Psychology Undergraduate Office. May be repeated up to a limit of six credits.

*Prerequisite:* Permission of instructor

**SBC:** EXP+  
1-3 credits, S/U grading

### PSY 301: Advanced Statistics

Survey of probability and sampling theory, descriptive and inferential statistics, and introduction to experimental design.

*Prerequisite:* PSY 201 or any other course satisfying the department's statistics requirement

*Advisory Prerequisite:* PSY 310  
3 credits

### PSY 310: Research and Writing in Psychology

An introduction to and critical analysis of the methodology of psychological research. In addition to attending lectures taught by faculty, students work closely with a graduate instructor and peers in small breakout sections to prepare a research proposal. Not for credit in addition to the discontinued PSY 300. This course has been designated as a High Demand/Controlled Access (HD/CA) course. Students registering for HD/CA courses for the first time will have priority to do so. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites:* Psychology major; PSY 103; C or better in PSY 201 or any other course satisfying the department's statistics requirement

**SBC:** ESI, SPK, WRTD  
4 credits

### PSY 325: Children's Cognitive Development

A survey of the basic principles of cognition from experimental research with children. Topics include perceptual development, language development, memory development, conceptual development, and the development of academic skills.

*Prerequisite:* PSY 220 or PSY 230 or PSY 240 or PSY 260

*Advisory Prerequisite:* PSY 310  
3 credits

### PSY 326: Children's Social and Emotional Development

Current theories, models, research methods, and findings in the study of children's socioemotional development. The course emphasizes the interaction of the individual with his or her social environment in developmental processes and outcomes. Eras covered include infancy, toddler/preschool, mid-late childhood, and adolescence.



*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
3 credits

### **PSY 327: Human Growth and Development in the Educational Context**

The biological and psychological development of childhood and adolescence that affects teaching and curriculum development for diverse learners. Additional topics include childhood and adolescent psychiatric disorders, special education programs, drug and alcohol use and abuse, and societal issues. Formerly SSE 327 and SSI 327. Not for credit in addition to SSE 327 or SSI 327.

*Prerequisite: permission of the instructor or admission to the teacher education program*  
3 credits

### **PSY 329: Special Topics in Developmental Psychology**

May be repeated as the topic changes.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
*Advisory Prerequisite: PSY 310*  
3 credits

### **PSY 333: Mood Disorders**

The mood disorders include bipolar (manic-depressive) and depressive disorders. They are among the most common psychological disorders, and are a tremendous personal, social, and economic burden. This course will provide an introduction to current theory and research on the mood disorders, including their classification, epidemiology, course, etiology, pathogenesis, and treatment. Not for credit in addition to PSY 339 with topic of "Mood Disorders."

*Prerequisite: PSY 230*  
3 credits

### **PSY 334: Autism Spectrum Disorders**

This course will provide information on history and current research into the causes (etiology), types (nosology), characteristics (symptomatology), prevalence, and treatment of autism spectrum disorders (ASDs). Topics to be dealt with include: etiology, assessment, family roles, social development, cognitive development, sensory and motor development, comorbidities, long-term outcomes, public policy legal issues, and future directions for research and practice.

*Prerequisite: PSY 230*  
*Advisory Prerequisite: PSY 220*

**DEC:** F  
**SBC:** SBS+  
3 credits

### **PSY 338: Abnormal Child Psychology**

Development and modification of behavioral deviations in children; application of principles derived from experimental analysis of behavior to problems of children.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
*Advisory Prerequisite: PSY 310*  
3 credits

### **PSY 339: Special Topics in Clinical Psychology**

May be repeated as the topic changes.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
*Advisory Prerequisite: PSY 310*  
3 credits

### **PSY 341: Psychology of Prejudice**

An overview of theoretical perspectives, research methods, empirical findings, and practical applications of psychological research on prejudice. Topics include the development of prejudice among children; the role of cognitive, social, personality, and motivational factors in maintaining prejudice and stigma; the psychological consequences of prejudice and stigma; and strategies for reducing prejudice, stigma, and intergroup conflict.

*Prerequisite: PSY 220 or PSY 230 or PSY 240 or PSY 250 or PSY 260*  
*Advisory Prerequisite: PSY 310*  
3 credits

### **PSY 342: Psychology of Women's Health**

An investigation of psychological aspects of women's health and gender differences in health through readings, lectures, films, guest speakers and presentations, class discussions, a writing assignment, and other educational activities.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
*Advisory Prerequisite: PSY 310*  
**SBC:** DIV  
3 credits

### **PSY 345: Theories of Personality**

The study of the ways in which people differ. Examines traditional and current thinking and research about the nature and causes of the individual patterns of behavior, emotion, and thinking that we call personality.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
*Advisory Prerequisite: PSY 310*  
3 credits

### **PSY 346: Health Psychology**

The role of psychological factors in the maintenance of good health or in coping with illness. Topics include the modification of

specific health behavior, such as alcoholism, obesity, lack of exercise, and smoking; the relationship of stress and illness; and coping with terminal illnesses.

*Prerequisite: PSY 103*  
*Advisory Prerequisite: PSY 310*  
3 credits

### **PSY 347: Psychology of Women**

The psychological impact of important physiological and sociological events and epochs in the lives of women; menstruation, female sexuality, marriage, childbirth, and menopause; women and mental health, mental illness and psychotherapy; the role of women in the field of psychology. This course is offered as both PSY 347 and WST 377.

*Prerequisite: WST major or minor; or one of the following: WST 102, WST 103, PSY 103, WST/SOC 247*

**DEC:** F  
**SBC:** SBS+  
3 credits

### **PSY 348: Special Topics in Social Psychology**

May be repeated as the topic changes.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
3 credits

### **PSY 349: Special Topics in Social Psychology**

May be repeated as the topic changes.

*Prerequisite: PSY 220 or PSY 230 or PSY 240*  
3 credits

### **PSY 354: Neurobiology of Learning and Memory**

Our ability to be shaped by our experiences and our sense of personal identity require that our brain encode and store information as one of its fundamental functions. In this course we will look in detail at how neurons and neural circuits respond and change when an organism learns something new or recalls something learned in the past. The focus will be on integrating current work in basic cellular and molecular neurobiology with the experimental psychology of learning and memory. Not for credit in addition to PSY 358 with topic of "Learning and Memory."

*Prerequisite: PSY 250 or BIO 202 or BIO 203 or BIO 208*  
3 credits

### **PSY 355: Human Brain Function**

The functional organization of the human brain, including dysfunctions resulting from various types of brain pathology.

Neuroanatomical, neuropsychological, neurophysiological, and experimental psychological approaches are described.

*Prerequisite: PSY 250 or BIO 208 or BIO 338*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 356: Physiological Psychology**

An advanced survey of the neurobiological bases of complex behavior. A review of basic neurophysiology, neuroanatomy, and neurochemistry is followed by considerations of the circuitry and neural processing supporting perception, motion, emotion, sleep, attention, learning, language, and higher cognitive mechanisms.

*Prerequisite: PSY 250 or BIO 202 or BIO 203 or BIO 208*

3 credits

### **PSY 357: Animal Learning**

Principles of adaptation and behavioral change with emphasis on techniques of reward and punishment and of stimulus control.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 358: Special Topics in Biopsychology**

May be repeated as the topic changes.

*Prerequisite: PSY 250 or BIO 202 or BIO 203 or BIO 208*

3 credits

### **PSY 359: Special Topics in Biopsychology**

May be repeated as the topic changes.

*Prerequisite: PSY 250 or BIO 202 or BIO 203 or BIO 208*

3 credits

### **PSY 364: Judgment and Decision Making**

An exploration of the psychological factors that influence judgment and decision making. Topics include how judgments and decisions ought to be made (e.g., rational decision making), systematic flaws in people's actual performance, and the neural systems that underlie decisions.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 365: The Psychology of Language**

Examination of theories and research concerning the processes and representations

that underlie language comprehension, production, and acquisition.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 366: Human Problem Solving**

An exploration of human problem solving and critical thinking. Topics include memory strategies, the role of language in thinking, inductive and deductive reasoning, creativity, and the development of problem solving skills.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 367: Memory**

A review of classic and current theories of memory and empirical research on memory in memory-intact and memory-impaired populations.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 368: Sensation and Perception**

An examination of both the basic mechanisms and the organizational processes of visual and auditory perception. Topics include the perception of color, depth, movement, pitch, loudness, speech, and music.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 369: Special Topics in Cognition and Perception**

May be repeated as the topic changes.

*Prerequisite: PSY 250 or PSY 260*

*Advisory Prerequisite: PSY 310*

3 credits

### **PSY 375: History and Systems of Psychology**

History of psychology presented either as a development and testing of theories that emerge from a long philosophical tradition, or as a set of practices that serve particular social functions and respond to pressures from the socioeconomic context.

*Prerequisite: PSY 220 or PSY 230 or PSY 240 or PSY 250 or PSY 260*

3 credits

### **PSY 380: Research Lab: Human Cognition**

Techniques and experimental methods to conduct research in cognition on a selection of topics such as perception and sensation,

language, attention, or memory. Hands-on learning of research and reporting of research. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: PSY 103; C or higher in PSY 201, AMS 110, or any other course satisfying the department's statistics requirement*

4 credits

### **PSY 382: Research Lab: Social Psychology**

Techniques and experimental problems in social psychology, including natural observation, surveys, and experimental design. Three hours of lecture and two hours of field or laboratory research per week.

This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: PSY 103; C or higher in PSY 201, AMS 110, or any other course satisfying the department's statistics requirement*

*Advisory Prerequisite: PSY 240*

**SBC:** ESI, WRTD

4 credits

### **PSY 386: Research Lab: Cultural Psychology**

Research methods in cultural psychology, including natural observation, surveys, and experimental design. Three hours of lecture and two hours of field or laboratory research per week.

*Prerequisite: PSY 310*

4 credits

### **PSY 389: Research Lab: Special Topics**

Research methods in varying topics in psychological research including natural observation, surveys, and experimental design. Three hours of lecture and two hours of field or laboratory research per week. May be repeated for credit as the topic changes. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: PSY 310*

4 credits

### **PSY 444: Experiential Learning**

This course is designed for students who engage in a substantial, structured experiential learning activity in conjunction with another class. Experiential learning occurs when knowledge acquired through formal learning and past experience are applied to a "real-world" setting or problem to create new knowledge through a process of reflection, critical analysis, feedback and synthesis.

Beyond-the-classroom experiences that support experiential learning may include: service learning, mentored research, field work, or an internship.

*Prerequisite: WRT 102 or equivalent; permission of the instructor and approval of the EXP+ contract ([http://sb.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree\\_requirements/EXPplus.php](http://sb.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree_requirements/EXPplus.php))*

**SBC:** EXP+

0 credit, S/U grading

### **PSY 447: Readings in Psychology**

Directed readings under the guidance of a faculty member. May be repeated once.

*Prerequisite: permission of instructor*

1-6 credits

### **PSY 459: Write Effectively in Psychology**

A zero credit course that may be taken in conjunction with any 300- or 400-level PSY course, with permission of the instructor. The course provides opportunity to practice the skills and techniques of effective academic writing and satisfies the learning outcomes of the Stony Brook Curriculum's WRTD learning objective.

*Prerequisite: WRT 102; permission of the instructor*

**SBC:** WRTD

0 credit, S/U grading

### **PSY 475: Undergraduate Teaching Practicum I**

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly assigned times to discuss the intellectual and pedagogical matters relating to the course.

*Prerequisite: permission of instructor*

**SBC:** EXP+

3 credits, S/U grading

### **PSY 476: Undergraduate Teaching Practicum II**

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.

*Prerequisite: permission of instructor*

**SBC:** EXP+

3 credits, S/U grading

### **PSY 487: Independent Research in Psychology**

Upper-division students interested in carrying out independent research projects under the auspices of a faculty member in the Department of Psychology may do so in this course. The student must propose and carry out the research project and must analyze and write up the results in a form acceptable to the sponsor. Written agreement by the faculty sponsor to undertake this responsibility and an outline of the project goals are filed with the Undergraduate Psychology Office. These become part of the student's departmental file. May be repeated up to a limit of 12 credits.

*Prerequisite: PSY 273; permission of instructor and department*

**SBC:** EXP+

0-6 credits

### **PSY 488: Internship**

Participation in public and private agencies and organizations. Students are required to submit written progress reports and a final written report on their experience to the faculty sponsor and department. May be repeated up to a limit of 12 credits.

*Prerequisite: permission of the supervising faculty member and undergraduate director*

**SBC:** EXP+

0-6 credits, S/U grading

### **PSY 491: Advanced Seminar in Psychology**

Special seminars covering current research theory. Topics are announced prior to the beginning of each semester. May be repeated up to a limit of 18 credits. Students may take two sections in a single semester. May not be taken for more than six credits per faculty member during the student's career.

*Prerequisites: PSY 310; permission of instructor*

1-3 credits

### **PSY 492: Advanced Seminar in Psychology**

Special seminars covering current research theory. Topics are announced prior to the beginning of each semester. May be repeated up to a limit of 18 credits. Students may take two sections in a single semester. May not be taken for more than six credits per faculty member during the student's career.

*Prerequisites: PSY 310; permission of instructor*

1-3 credits

### **PSY 495: Senior Honors Seminar**

First course of a two-semester directed-research activity employing methods and theories of psychological research. Students are expected to design and execute a research project and submit a thesis under the supervision of appropriate faculty sponsorship. Students enrolled in PSY 495 are obliged to complete PSY 496. Students receive only one grade upon completion of the sequence.

*Prerequisite: permission of department*

*Corequisite: PSY 487*

**SBC:** ESI, WRTD

1 credit

### **PSY 496: Senior Honors Seminar**

Second course of a two-semester directed-research activity employing methods and theories of psychological research. Students are expected to design and execute a research project and submit a thesis under the supervision of appropriate faculty sponsorship. Students enrolled in PSY 495 are obliged to complete PSY 496. Students receive only one grade upon completion of the sequence.

*Prerequisite: PSY 495; permission of department*

*Corequisite: PSY 487*

**SBC:** ESI, WRTD

1 credit