

**UNDERGRADUATE NEW PROGRAM
MAJOR OR MINOR OR CONCENTRATION
*Within an Existing Degree Program****

**For a new degree program or new CIP code designation, in addition to EPC program and course forms you must complete all procedures and forms found in the "SCHEV Guidelines."*

Proposal for a New Program

Department	<u>Psychology</u>	Submission Date	<u>1-12-15</u>
Degree	<u>N/A</u>	Program Name	<u>NeuroStudies</u>
Major <input type="checkbox"/>	Minor <input checked="" type="checkbox"/>	Concentration	
Semester of Implementation	<u>Fall 2015</u>		

I. Outline of the proposed major, minor or concentration including catalog copy.

Attach extra sheets.

See Catalog copy attached.

II. New courses which will be proposed as part of this program. Be sure to submit a separate

proposal for each course using the appropriate forms. *Attach extra sheets.*

NEUR 151. Intro to Biopsychology. (New cross-listing.)

NEUR 321. Behavioral Neuroscience. (Course change from PSYC 321, and New cross-listing,)

NEUR 401. Cultural Neuroscience.

NEUR 402. Modern Neuroscience.

NEUR 403. Health Neuroscience.

See New Course Forms included.

III. Rationale for the program:

Rationale for the NeuroStudies Minor at Longwood University

Neuroscience is the study of the nervous system, including molecules, nerve cells, networks, brain systems, and behavior. Importantly, neuroscience is an *interdisciplinary* science that collaborates with other fields such as biology, chemistry, computer science, engineering, linguistics, mathematics, medicine and allied disciplines, philosophy, physics, and psychology. Further, neuroscience is a science which advances the understanding of human thought, emotion, and behavior, and discoveries relevant to neurological disorders.

Over the last 20 years, Neuroscience programs have increased over 1800% nationwide, by far the fastest growing degree program in the US. A neuroscience education prepares students for careers in both science and non-science fields, including medical professions, journalism, law, marketing, economics, and more. A working knowledge of neuroscience will give students an edge in increasingly competitive job markets and graduate school admissions.

The specific neuroscience program being proposed is an interdisciplinary Neuroscience Studies (NeuroStudies) Minor, with an intentional focus on development of the interrelationships of neuroscience across the liberal arts. The minor would include foundational introductory and intermediate courses, specific courses selected to complement the student's chosen major, and an interdisciplinary capstone experience (delivered in 3 1-credit seminar courses). This program is proposed as an excellence-based program requiring a minimum GPA in the program and at the University. The name NeuroStudies is being chosen to reflect the intended interdisciplinary nature of the program and to distinguish it from a "classic" neuroscience program.

Several Virginia colleges & universities offer Neuroscience programs. Some offer majors, minors, or concentrations in neuroscience. An interdisciplinary neurostudies program is significantly different from any program currently offered at a Virginia school.

Developing a NeuroStudies Minor will have a number of university-wide impacts and meets a number of goals set out in the Academic Strategic Plan (ASP). First, this creation of a new, interdisciplinary, STEM-based program will provide an "innovative project that enhances the University's scholarly profile and increases alternate revenue streams". (ASP B.3.1.a), "Facilitate development of interdisciplinary courses and programs" (ASP A.2.2.a), and "Increase the number of students in STEM-related disciplines" (ASP A.2.3.a).

Second, this program may be an attractive option for Honors and other excellent students in all major disciplines, which will improve LU's ability to "recruit, retain, and graduate a diverse group of highly motivated students" (ASP A.1.1) and create opportunities to "increase recognition and promotion of academic achievement" (ASP A.1.2). Third, the creation of this minor will support coursework of existing majors and minors and should "Increase the number of students who complete double majors and

minors” (ASP A.2.2.b). Fourth, this minor should help develop a community of interdisciplinary research, working toward goals to “Create and fund summer STEM Research Experiences for Undergraduates (REU)” (ASP A.2.3.b) and “Increase visibility of faculty-student research to all stakeholders” (ASP B.2.3.a).

In order to complete this minor in NeuroStudies, students may take courses outside of Psychology that are relevant to the field of Neuroscience. Indeed, this interdisciplinary minor is intended such that while courses outside the department will supplement the education of NeuroStudies minors, the Neuroscience and Psychology courses of the minor will supplement the education received in other majors. In this way, students will be better prepared for careers and postgraduate education which relies on interdisciplinary translation of information.

A typical Neuroscience curriculum includes coursework in Psychology, Biology, Chemistry, Physics, and Mathematics. Several courses currently offered at Longwood in these departments offer enough relevance to Neuroscience to be included in the NeuroStudies Minor curriculum. Courses within the Biology curriculum will allow students a depth of understanding across the broad range of Neuroscience, from the functioning of nerve cells (BIOL 412/CHEM 412 Biochemistry, BIOL 360 Developmental Biology, and BIOL 426 Cell Biology) to the function of nervous systems (BIOL 207 Human Anatomy & Physiology II and BIOL 306 Vertebrate Physiology) to the expression of nervous systems (BIOL 474 Animal Behavior). While some Chemistry courses will advance the understanding of cell-cell communication in the brain (CHEM 371 Advanced Organic, CHEM 412 Biochemistry), courses in both the Chemistry and Physics departments will accentuate the understanding of the bioelectric properties of the brain (CHEM 351 Instrumental Analysis, PHYS 326 Optics, PHYS 331AC/DC Circuits, PHYS 341 Electronics). Students interested in Math and Computer Sciences may want to pursue the fields of Computational Neuroscience or Neuroinformatics, in which case they might choose electives from that department (MATH 325/CMSC 325 Mathematical Modeling and Simulation, and CMSC 389 Artificial Intelligence).

The College of Education and Human Services offers a number of courses ideal as electives for the NeuroStudies Minor. Courses in the Communication Sciences Disorders department work toward understanding the function of nervous systems and the behaviors associated with nervous system disorders (CSDS455 Neurology in Human Communications and CSDS 460 Introduction to Neurogenic Communication Disorders). Within the Department of Health, Athletic Training, Recreation and Kinesiology, a number of courses are dedicated to the intersection of mind and body- with the nervous system as a key integrating unit (KINS 215 Exercise is Medicine, KINS 375 Exercise Science Seminar, KINS 387 Exercise Physiology). Other courses in that department are more specifically geared toward understanding physical changes and disabilities, with the nervous system again playing a key role (RECR303 Physical Disabilities). Still other courses are designed to teach specific physical therapy interventions for treating a variety of issues, including mental health and addiction- again connecting the mind and body through the nervous system (RECR320 Facilitation Techniques I and RECR 321 Facilitation Techniques II).

IV. Resource Assessment

A. Estimate additional staff requirements for this program.

None.

B. Estimate the amount and cost of equipment, library resources, computer hardware and software, and other resources that will be required to carry out this program.

None.

V. Anticipated enrollment in program after five (5) years.

30-50

VI. Affected Departments or Programs. If the proposed program could have an impact on other departments or programs, the appropriate affected chairs or program directors should be notified of the proposed changes. Where teaching licensure may be affected, the licensure officer should also be notified.

Licensure Officer _____ Date Notified_ _____

List other departments/programs that might be affected: See below.

Individuals contacted and date contacted:

Affected Departments or Programs

School	Department/Program	Individuals contacted	In-person Meeting Dates	Update via email & Canvas
CCCAS	Biology	Mark Fink (chair)	8/21/2014	1/8/15
CCCAS	Biology	Bjoern Ludwar	8/21/2014	1/2/15
CCCAS	Math/CS	Don Blaheta	9/5/2014	12/15/14
CCCAS	Math/CS	Leigh Lunsford	9/5/2014	1/5/15
CCCAS	Math/CS	Scott McElfresh	9/5/2014	1/8/15
CCCAS	Psychology	Eric Laws (Chair)	1/8/2015	1/8/15
CCCAS	Chem/Phys	Melissa Rhoten (chair)	9/17/2014	12/15/14
EHS	HARK	Rena Koesler	8/20/2014	1/8/15
EHS	HARK	Cathy Roy	8/20/2014	12/15/14
EHS	HARK	Susan Lynch	8/20/2014	12/17/14
EHS	HARK	Jo Morrison	8/20/2014	1/8/15
EHS	CSD	Peggy Agee	9/8/2014	1/8/15
EHS	CSD	Ann Cralidis	9/8/2014	12/15/14

VII. Library notification: The library liaison for the proposing department must be notified:

Liaison ___Dean Palmer Date notified ___1-12-15_____

Department of Psychology

Eric L. Laws, PhD, *Chair*

Joyce M. Trent, *Secretary*

The Department of Psychology offers both an undergraduate major and a minor, as well as basic introductory and service courses to numerous other college majors. Psychology courses required for other majors and minors are clearly identified under those disciplines.

PSYCHOLOGY PROGRAM

Faculty

Jennifer M. Apperson, PhD, *Professor of Psychology*

Christopher A. Bjornsen, PhD, *Professor of Psychology*

Sarai Blincoe, PhD, *Assistant Professor of Psychology*

Stephanie Buchert, PhD, *Associate Professor of Psychology*

David M. Carkenord, PhD, *Professor of Psychology*

Catherine L. Franssen, PhD, *Assistant Professor of Psychology*

Danette C. Gibbs, PhD, *Assistant Professor of Psychology*

Eric L. Laws, PhD, *Professor of Psychology*

To satisfy requirements for graduation, students majoring or minoring in psychology must earn a grade of no less than C- in all psychology courses that are applied to the major or minor (41-43 credits).

The Department of Psychology offers four concentrations. All psychology majors are required to take the 22-24 credits of core requirements and 13 credits of concentration requirements and 6 credits of psychology electives.

ASSESSMENT

The Department of Psychology requires senior majors to take a comprehensive psychology test. The purpose of the test is to assess the progress of our majors and the effectiveness of our program.

PSYCHOLOGY MAJOR, BS DEGREE

A. General Education Requirement/38 credits

B. Additional Degree Requirements (cannot take Social Science)/7 credits

C. Major Requirements/41-43 credits

1. CORE REQUIREMENTS/22-24 credits

PSYC 101 Introduction to Psychology/3 credits

PSYC 151 Introduction to Biopsychology/3 credits

PSYC 233 Research Methods in Psychology/4 credits

PSYC 234 Quantitative Methods in Psychology/3 credits

Prerequisite is MATH 171-satisfies Goal 5 or ADR

PSYC 457 History and Systems of Psychology/3 credits

PSYC 460 Advanced General Psychology/3 credits

PSYC 461 Seminar in Psychology/3 credits

PSYC 490 Independent Research in Psychology/1-6 credits
or PSYC 492 Internship in Psychology (satisfies General Education Goal 14)
or PSYC 498 Honors Research in Psychology/ 3 credits
(May be taken for additional credit applied toward PSYC electives)

2. AREA REQUIREMENTS/13 credits

All students must successfully complete at least one class from each area below.

DEVELOPMENTAL AREA

PSYC 371 Infant and Child Development/3 credits
PSYC 373 Adolescent and Adult Development/3 credits
PSYC 384 Cross-Cultural Psychology/3 credits

GENERAL/EXPERIMENTAL AREA

PSYC 300 Sensation and Perception (lab)/4 credits
PSYC 322 Cognitive Psychology (lab)/4 credits
PSYC 324 Learning (lab)/4 credits

INDUSTRIAL/ORGANIZATIONAL/SOCIAL AREA

PSYC 331 Social Psychology/3 credits
PSYC 360 Consumer Psychology/3 credits
PSYC 366 Industrial and Organizational Psychology/3 credits
PSYC 400 Human Factors Psychology/3 credits

PRE-CLINICAL/COUNSELING AREA

PSYC 356 Abnormal Psychology/3 credits
PSYC 420 Psychological Tests and Measurements/3 credits
PSYC 423 Theories of Personality/3 credits

3. PSYCHOLOGY ELECTIVE REQUIREMENTS/6 credits

Students must complete at least 6 Psychology elective credits. Psychology elective courses may be selected from the areas or from the elective courses offered on a rotating basis listed below. Students planning to attend graduate school in a given area or intending to seek employment in a given area are encouraged to complete their electives from that area.

ELECTIVE courses offered on a rotating basis:

PSYC 295 Special Topics in Psychology/1-3 credits
PSYC 311 Study Abroad/1-18 credits
PSYC 312 Study Abroad/1-18 credits
PSYC 321 Physiological Psychology/3 credits
PSYC 330 Life-Span Developmental Psychology/3 credits
PSYC 350 Psychology of Sex and Gender/3 credits
PSYC 357 Psychopathology of Childhood/3 credits
PSYC 380 Community Psychology/3 credits
PSYV 401 Psychology of Warfare and Terrorism/3 credits
PSYC 410 Fundamentals of Psychological Interviewing/3 credits
PSYC 430 Psychology and the Law/3 credits
PSYC 452 Psychopharmacology/3 credits
PSYC 453 Psychology of Language/3 credits
PSYC 490 Independent Research in Psychology/1-6 credits
PSYC 492 Internship in Psychology (Applied or Research)/1-15 credits
PSYC 495 Special Topics in Psychology/1-6 credits

D. General electives for BS in Psychology/32-34 credits

E. Total credits required for BS in Psychology/120

MINOR in Psychology

A minor in psychology is offered. A minimum of 18 semester hours is required for this program. Students minoring in psychology must earn a grade of no less than C- in all psychology courses that are applied to the minor. These include:

PSYC 101. Introduction to Psychology/3 credits
Three credits from courses in Developmental Area
Three credits from courses in Industrial/Organizational/Social Area
Three credits from courses in Pre-Clinical/Counseling Area
Six credits of electives selected from any of the Psychology courses
TOTAL/18 credits

MINOR in NeuroStudies

Catherine L. Franssen, PhD, *Director, Assistant Professor of Psychology*

The mission of the Longwood University Interdisciplinary NeuroStudies Minor is to engage students from across the curriculum with neuroscience, with the aim of meeting Longwood University's vision to create lifelong learners connected to what is new in the world. The relatively new, rapidly growing, and pervasive field of neuroscience intersects with nearly every discipline. Through the Interdisciplinary NeuroStudies Minor, students will improve critical & independent thinking skills as well as scientific literacy, and prepare for careers in both science and non-science fields. Students from a variety of academic areas are encouraged to participate in this educational experience. Courses for this program are designed to inform students about the foundational concepts and current events in neuroscience, and provide an intentional focus on development of the interrelationships of neuroscience across the liberal arts.

Requirements for the 19-Credit Hour Minor in Interdisciplinary NeuroStudies:

In order to complete a minor in Interdisciplinary NeuroStudies, students must:

1. File a form of intention to pursue the Minor at the Office of the Registrar.
2. Earn a grade point average of 2.7 in neuroscience-specific courses (NEUR).
3. Earn a grade point average of 2.0 in all additional courses chosen to meet the minor requirements.

Take all of the following courses/ 10 credits

NEUR 151/PSYC 151: Intro to Biopsychology/ 3 credits
NEUR 321/ PSYC 321: Behavioral Neuroscience/ 4 credits
NEUR 401: Cultural Neuroscience/1 credit
NEUR 402: Modern Neuroscience/1 credit
NEUR 403: Health Neuroscience/ 1 credit

Choose 9 credit hours from the following:

BIOL 207 Human Anatomy and Physiology II/4 credits
BIOL306 Vertebrate Physiology/4 credits
BIOL 360 Developmental Biology/4 credits
BIOL 412 (CHEM 412) Biochemistry/4 credits
BIOL 426 Cell Biology/4 credits
BIOL 474 Animal Behavior/4 credits
CHEM 351 Instrumental Analysis/3 credits
CHEM 371 Advanced Organic/3 credits
CSDS455 Neurology in Human Communications/3 credits
CSDS460 Introduction to Neurogenic Communication Disorders/2 credits
CMSC 389 Artificial Intelligence/3 credits
KINS215 Exercise Is Medicine/3 credits
KINS375 Exercise Science Seminar/3 credits
KINS387 Exercise Physiology/3 credits

MATH 325 (CMSC 325) Mathematical Modeling and Simulation/3 credits
PHYS 326 Optics/4 credits
PHYS 331 AC/DC Circuits/4 credits
PHYS 341 Electronics/4 credits
PSYC300 Sensation & Perception/4 credits
PSYC324 Learning/4 credits
PSYC452 Psychopharmacology/3 credits
RECR303 Physical Disabilities/3 credits
RECR320 Facilitation Techniques I/3 credits
RECR321 Facilitation Techniques II/3 credits

PSYCHOLOGY COURSE DESCRIPTIONS (PSYC)

General Education Course *
Writing Intensive Course WR
Speaking Intensive Course SP

PSYC 101. *Introduction to Psychology.* Overview of the theories, methods, and applications of psychology. Explanation of the ways psychology and culture have influenced each other, as well as the application of psychological principles and ideas to contemporary issues. Focuses on personality, emotional, and social development; psychological disorders and treatment; cognitive processes and abilities; direct and indirect influences on thoughts, feelings, and behavior; and health, stress, and coping. 3 credits. *Fulfills General Education Goal 8 for non-majors.

~~**PSYC 151.** *Introduction to Biopsychology.* A general introduction to, and overview of, the structure and function of the nervous system and its role in determining behavior. Emphasis will be on the impact of biopsychology on the traditional areas of psychology, as well as its relationship to everyday behavior. Prerequisites: PSYC 101 (with grade of "C" or better) or permission of instructor. 3 credits.~~

PSYC 151. (NEUR 151). *Introduction to Biopsychology.* An introduction to the structure and function of the nervous system and an overview of how it produces everyday behavior. Topics will include how psychological processes are encoded in brain activity and how these biopsychological functions are altered by disease and drugs. Prerequisites: Psychology majors and minors: PSYC 101 (with grade of "C-" or better) or permission of instructor. No prerequisites for NeuroStudies minors. 3 credits.

PSYC 233. *Research Methods in Psychology.* Examination of the major problems of psychology and experimental procedures available for their investigation. Lecture and one double-lab period. Prerequisites: PSYC 101 (with grade of "C-" or better). 4 credits. WR and SP. Open only to Psychology majors and minors.

PSYC 234. *Quantitative Methods in Psychology.* Introduction to the principles and techniques of experimental design and statistical analysis. Prerequisites: PSYC 233 (with grade of "C-" or better), or co-requisite with PSYC 233. Prerequisite: MATH 171, 3 credits. Open only to Psychology majors and minors.

PSYC 295. *Special Topics.* Selected topics in Psychology. The topics may vary from semester to semester. May be repeated for credit when topics change. 1-3 credits.

PSYC 300. *Sensation and Perception.* A study of transduction, organization, and interpretation of information. Topics include sensory physiology, theories of perception, theories of attention, subjective influences on perception, and consciousness. Prerequisites: PSYC 233 and 234 (with grades of "C-" or better). Lecture and one double-lab period. 4 credits. WR.

PSYC 311, 312. *Studies Abroad.* Primarily intended for transfer of credit earned abroad in courses on psychology. 1-18 credits.

~~**PSYC 321.** *Physiological Psychology.* Study of the physiological correlates of behavior including the sensory receptors, central brain mechanisms, and coordination of the motor system. Prerequisites: PSYC 151 (with grade of "C" or better). 3 credits.~~

PSYC 321. (NEUR 321). *Behavioral Neuroscience.* Study of the biological substrates of behavior. An in-depth examination of the structure and function of the mammalian nervous system as it relates to specific behaviors, such as sensation, coordination of the motor system, and cognition. In the laboratory component of this course, students will be introduced to techniques relevant to the study of Behavioral Neuroscience. Prerequisites: Psychology majors and minors: PSYC 151, PSYC 233, & PSYC 234 (with grade of "C-" or better). NeuroStudies minors: PSYC 151 (with grade of "C-" or better). 3 lecture and one 2-hour lab periods. 4 credits.

PSYC 322. *Cognitive Psychology.* Examination of theories and research dealing with verbal learning, concept learning, short-term and long-term memory stores, cognitive encoding and search strategies, and transfer. Prerequisites: PSYC 233 and 234 (with grades of "C-" or better). Lecture and one double-lab period. 4 credits. WR.

PSYC 324. *Learning.* Examination of the classic and contemporary literature in animal learning and motivation. Prerequisites: PSYC 233 and 234 (with grades of “C-” or better). Lecture and one double-lab period. 4 credits. WR.

PSYC 330. *Life-Span Developmental Psychology.* Principles and research covering the life-span development of human abilities and behavior. Topics include developmental research methodologies, variables influencing development, basic processes in development; and physical, motor, perceptual, cognitive, linguistic, motivational, emotional, social, and personality development. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 331. *Social Psychology.* An examination of some of the many interesting ways in which individual behavior and thought is influenced by social situations. A major theme that will emerge is that social situations are often more powerful than personality in influencing behavior. Topics to be covered include: aggression, altruism, conformity, interpersonal attraction, persuasion, and prejudice. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 350. *Psychology of Sex and Gender.* An examination of the differences between the male and female experience from the psychologist’s point of view. The course will include factors which have affected the male and female experience, current research on actual and perceived gender differences, and how social changes have contributed to changing roles. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 356. *Abnormal Psychology.* Diagnostic classifications and models of adult behavior disorders. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 357. *Psychopathology of Childhood.* Diagnostic classifications and models of abnormal childhood behavior. Attention will be given to physical, learned and social bases of abnormal behavior. Prerequisites: PSYC 356 (with grade of “C-” or better). 3 credits.

PSYC 360. *Consumer Psychology.* Study of the psychological relationship between individuals who receive services and purchase goods and those organizations that provide such services and goods. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 366. *Industrial and Organizational Psychology.* Study of the theories and techniques of psychology in relation to the topics of employee selection, performance appraisal, work motivation, job satisfaction, leadership, working conditions, and job-related health and stress. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 371. *Infant and Child Development.* An examination of the biological, cognitive, social, emotional, and behavioral changes that take place during prenatal development, infancy, and childhood including genetic influences, transformations in attachment, autonomy, family relations, sibling relations, peer relations, moral thinking and behavior, intelligence, language, and achievement. Brief examination of childhood psychopathology. Prerequisites: PSYC 101 (with grade of “C-” or better) or permission of instructor. 3 credits.

PSYC 373. *Adolescent and Adult Development.* An examination of the biological, cognitive, social, emotional, and behavioral changes that take place during adolescence and adulthood including transformations in identity, intimacy, autonomy, sexuality, achievement, and attachment. Brief examination of adolescent and adult psychopathology. Prerequisites: PSYC 101 (with grade of "C-" or better) or permission of instructor. 3 credits.

PSYC 380. *Community Psychology.* An examination of the interaction of individuals and their social contexts, and its effects on the health and well-being of both the individual and the community. Exploration of how change can be effected to address social problems. Examples of community psychology interventions in various settings will be explored. Prerequisites: PSYC 101 (with grade of "C-" or better) or permission of instructor. 3 credits.

PSYC 384. *Cross-Cultural Psychology.* An in-depth investigation of the relationships between cultural and human development, and the thoughts, emotions and behaviors of individuals in different cultures. Focuses on human traits, development, and interactions from a multicultural and multiethnic perspective. Prerequisites: PSYC 101 (with grade of "C-" or better) or permission of instructor. 3 credits.

PSYC 390. *Directed or Independent Study.* Must be approved by the head of the department. May be repeated as 391. 1-18 credits.

PSYC 400. *Human Factors Psychology.* This course examines the relationship between human behavior and technology, with a focus on understanding how knowledge of psychology can be applied to make the human-technology interaction more efficient and effective. Prerequisites: PSYC 101 (with grade of "C-" or better) or permission of instructor. 3 credits.

PSYC 401. *Psychology of Warfare and Terrorism.* An examination of alternative warfare (e.g. insurgency, guerilla, urban warfare, and terrorism) from a social psychological perspective. Topics to be covered include motivations, recruitment, tactics, media use, prevention programs and counter efforts. Prerequisites PSYC 101 (with a grade of "C-" or better) or permission of instructor. /3 credits

PSYC 410. *Fundamentals of Psychological Interviewing.* This course will provide an overview of the interview process in different settings. Basic professional listening, communicating, and interviewing skills will be taught and practiced. Strategies for obtaining accurate information and for avoiding bias in the interview will also be reviewed. Junior or Senior standing or permission of instructor. 3 credits.

PSYC 420. *Psychological Tests and Measurements.* A survey of methods, techniques, and instruments for measuring individual differences in behavior, personality interests and intellectual ability. Prerequisite: PSYC 234 (with grade of "C-" or better). 3 credits.

PSYC 423. *Theories of Personality.* An examination of the major theories of personality including analytical, cognitive and behavioral theories. 3 credits.

PSYC 430. *Psychology and the Law.* Psychology applied to various legal topics such as criminal behavior, characteristics of lawyers and police, civil commitments, insanity plea, competence, the legal process and ethical issues. 3 credits.

PSYC 452. *Psychopharmacology.* This course serves as an overview of the research and current thought on the topics of treating and counseling people addicted to drugs. In addition, the course will review the use and misuse of prescription medications. We will be reviewing the history of various drugs, the neuropharmacological actions, the effects on health, and the psychopharmacological actions. Prerequisites: PSYC 151 (with grade of "C-" or better) or permission of instructor. 3 credits.

PSYC 453. *Psychology of Language.* This course surveys the psychological foundations of language. Topics will range from basic issues such as the structure of language, language development, language comprehension, and language production, to special issues such as the relationship between language and thought, the

relationship between language and the brain, bilingualism, and learning a second language. Junior or Senior standing or permission of instructor. 3 credits.

PSYC 457. *History and Systems of Psychology.* The development of psychology from ancient to modern times. Prerequisite: Open only to Junior or Senior psychology majors and minors. 3 credits. WR.

PSYC 460. *Advanced General Psychology.* A survey course for senior psychology majors. It covers the most contemporary concepts, principles, theories, methodologies, issues and insights in the field of psychology. Prerequisite: Open only to Senior psychology majors. 3 credits.

PSYC 461. *Seminar in Psychology.* A seminar for the senior psychology major, designed to integrate knowledge of specific fields into a comprehensive view of psychology. Prerequisites: PSYC 233 and 234 (with grades of "C-" or better). Open only to Senior psychology majors. 3 credits. WR and SP.

PSYC 490. *Independent Research in Psychology.* A directed research project administered by qualified specialists in the department. By permission of instructor. 1-6 credits. *Fulfills General Education Goal 14.

PSYC 492. *Internship in Psychology.* Directed practicum in applied setting, or research mentorship that permits supervised experiential learning. Students learn through performance in meaningful tasks in a variety of environments. By permission of instructor. 1-15 credits. (hours 1-3 graded; hours 4-15 pass/fail). *Fulfills General Education Goal 14.

PSYC 495. *Special Topics.* Selected topics in Psychology. The topics may vary from semester to semester. May be repeated for credit when topics change. 1-6 credits.

PSYC 498. *Honors Research in Psychology.* Students conduct research in psychology under the direction of a faculty member and the Senior Honors Research Committee. May be repeated as 499. 3 credits.

NEUROSCIENCE COURSE DESCRIPTIONS (NEUR)

NEUR 401. *Cultural Neuroscience.* An examination of the influence of neuroscience on past and/or present culture. Topics may vary by semester, and may include pop culture, literature, music, history, and others. This course is a series of topical lectures, presentations, and discussions, with an emphasis on interconnecting sub-disciplines and understanding the interdisciplinary nature of the field. Prerequisite: PSYC/NEUR 321 (with grade of "C-" or better). 1 credit.

NEUR 402. *Modern Neuroscience.* An analysis of current trends and innovations in neuroscience. Topics may vary by semester, and may include technology initiatives, research techniques, industry applications, and others. This course is a series of topical lectures, presentations, and discussions, with an emphasis on interconnecting sub-disciplines and understanding the interdisciplinary nature of the field. Prerequisite: PSYC/NEUR 321 (with grade of "C-" or better). 1 credit.

NEUR 403. *Health Neuroscience.* An introduction to health-related neuroscience. Topics may vary by semester, and may include clinical neuroscience, neuroendocrinology, psychoneuroimmunology, and others. This course is a series of topical lectures, presentations, and discussions, with an emphasis on interconnecting sub-disciplines and understanding the interdisciplinary nature of the field. Prerequisite: PSYC/NEUR 321 (with grade of "C-" or better). 1 credit.

SIGNATURE PAGE
UNDERGRADUATE NEW PROGRAM
MAJOR OR MINOR OR CONCENTRATION

Department Psychology Program Name NeuroStudies

VII. Approvals

	Date Received	Date Approved	Signature
1. Department Curriculum Committee Chair	_____	_____	_____
2. Department Chair	_____	_____	_____
3. College Dean	_____	_____	_____
4. College Curriculum Committee	_____	_____	_____
5. Educational Policy Committee	_____	_____	_____
6. Faculty Senate	_____	_____	_____
7. *VPAA	_____	_____	_____
8. OAIR notified	_____		_____
9. *BOV/SCHEV - VPAA will submit materials for approval			
10. Date received by Registrar	_____		

*New degree programs, Spin-off or new CIP codes must be submitted to BOV & SCHEV)

All curriculum proposals/changes are processed in the date order received. In order to be included in the next academic year's catalog, all paperwork must be submitted no later than:

February 1st to the College Curriculum Committee
March 1st to the Educational Policy Committee (EPC)

Submission within the deadlines does not guarantee processing in time for the next academic year's catalog. For new degree programs that must go to SCHEV for approval, entry into the catalog may not occur for at least another year.

Revised June 2012