



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

DEPARTMENT OF PSYCHOLOGY AND NEUROSCIENCE

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April 24, 2017

Dr. James Thompson, Associate Dean
Office of Undergraduate Curricula
CB# 3504

Dear Dr. Thompson and Members of the Administrative Boards:

In order to keep our curriculum up-to-date with changes in the field and opportunities offered by new faculty, we are requesting approval of a few changes in requirements for the B.S. major in Psychology.

Students who complete the B.S. major must complete two courses numbered between 400 and 650 from a list of courses offered in our department. We request permission to add the following courses to that list:

PSYC 415	History of Neuroscience
PSYC 420	Functional Neuroanatomy
PSYC 424	Neural Connections: Hands-On Neuroscience
PSYC 532	Quantitative Psychology
PSYC 533	The General Linear Model in Psychology
PSYC 534	Introduction to Computational Statistics
PSYC 568	Emotion
PSYC 571	Social Neuroscience

Our second requested change is the following: Currently, B.S. majors are asked to complete three Social and Behavioral Science Approaches courses from departments outside of Psychology. We would like to drop that requirement, reverting to the General Education requirement (i.e., a total of three Social and Behavioral Science courses from at least two academic units).

Third, at present, B.S. majors are required to take four nonpsychology physical and life sciences courses (i.e., PL or PX), including one with a laboratory and one physical science course; OR three additional nonpsychology physical and life sciences courses including one with a laboratory and one additional course chosen from COMP 401; LING 455; PHIL 155, PHIL 455; STOR 112, STOR 113, STOR 115. We request permission to change these requirements so that rather than students drawing from the College list of approved PL and PX courses, the required courses be drawn from an Allied Sciences course list (see enclosed). Other aspects of this requirement (i.e., one course must require a lab; one course must be physical science) would remain unchanged.

Attached is proposed revised language for the catalog describing Psychology B.S. degree requirements that incorporates all of these changes. Proposed new text appears in italics.

Thank you for your careful review of these proposed changes.

Sincerely,

A handwritten signature in black ink that reads "Donald T. Lysle". The signature is written in a cursive style with a large, prominent initial "D".

Donald T. Lysle, Ph.D.
Kenan Distinguished Professor
Chair, Department of Psychology and Neuroscience

A handwritten signature in black ink that reads "Beth Kurtz-Costes". The signature is written in a cursive style with a large, prominent initial "B".

Beth Kurtz-Costes, Ph.D.
Zachary T. Smith Distinguished Term Professor
Director of Undergraduate Studies

Psychology major, B.S.

Requirements

In addition to the program requirements listed below, students must

- attain a final cumulative GPA of at least 2.0
- complete a minimum of 45 academic credit hours earned from UNC-Chapel Hill courses
- take at least half of their major course requirements (courses and credit hours) at UNC-Chapel Hill
- earn a minimum of 18 hours of C or better in the major core requirements (some majors require 21 hours).

For more information, please consult the [degree requirements section of the catalog](#).

Code	Course List Title	Hours
Core Requirements		
PSYC 101	General Psychology (gateway course; with a grade of C or better)	3
PSYC 210	Statistical Principles of Psychological Research ^H	3
PSYC 270	Laboratory Research in Psychology	4
	One course below 400 from each of the following psychology program areas:	6
Behavioral <i>Integrative</i> Neuroscience:		
PSYC 220	Biopsychology ^H	
PSYC 222	Learning ^H	
PSYC 225	Sensation and Perception ^{1, H}	
Cognitive:		
PSYC 225	Sensation and Perception ^{1, H}	
PSYC 230	Cognitive Psychology ^H	
	One course below 400 from two of the three following psychology program areas:	6
Clinical:		
PSYC 242	Introduction to Clinical Psychology ^H	
PSYC 245	Abnormal Psychology ^H	
Developmental:		
PSYC 250	Child Development ^H	
Social:		
PSYC 260	Social Psychology ^H	
	Two additional psychology courses numbered between 400 and 650, <i>at least one of which must be a course chosen from the list below (see "Upper Level Courses for Special Requirement")</i> . May not include PSYC 493 .	6
<u>For clarity, this requirement will be broken into two:</u>		
<u>a. One psychology course chosen from the "Upper Level Courses for Special</u>		

Course List		Hours
Code	Title	
	Requirement", see list below (3 hours)	
	a-b. <u>One additional psychology course numbered between 400 and 650. May not include PSYC 434. (3 hours)</u>	
	One additional psychology course above 101; may include three hours of PSYC 395 or PSYC 693H or PSYC 694H ; may not include PSYC 190	3
Additional Requirements		
BIOL 101 & BIOL 101L	Principles of Biology and Introductory Biology Laboratory ^H	4
One of:		4
CHEM 101 & 101L	General Descriptive Chemistry I and Quantitative Chemistry Laboratory I	
PHYS 114	General Physics I: For Students of the Life Sciences	
PHYS 118	Introductory Calculus-based Mechanics and Relativity	
MATH 231 or MATH 241	Calculus of Functions of One Variable I BioCalculus I	3
One of:		3
COMP 101	Fluency in Information Technology	
COMP 110	Introduction to Programming ^H	
COMP 116	Introduction to Scientific Programming	
MATH 232	Calculus of Functions of One Variable II	
MATH 283	BioCalculus II	
	At least four additional <i>three-hour</i> nonpsychology physical and life sciences courses including one with a laboratory (i.e., PX) and one physical science course <i>that come from the Department of Psychology and Neuroscience list of Allied Science Courses</i> ; OR three additional nonpsychology physical and life sciences courses from the Departmental Allied Sciences list including one with a laboratory (i.e., PX) and one additional course chosen from COMP 401 ; LING 455 ; PHIL 155, PHIL 455 ; STOR 112 , STOR 113 , STOR 215 .	13
	One additional nonhistorical social and behavioral sciences Approaches course, which must be from a department other than psychology. (the remaining three social and behavioral sciences Approaches courses must be from departments other than psychology)	3
Total Hours		61
H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.		
¹ PSYC 225 can meet either the behavioral neuroscience or cognitive requirement, but not both.		

Upper Level Courses for Special Requirement

Code	Title	Hours
PSYC 400	Conditioning and Learning	3
PSYC 401	Animal Behavior	3
PSYC 402	Advanced Biopsychology	3
PSYC 403	Advanced Biopsychology Laboratory ^H	3
PSYC 404	Clinical Psychopharmacology	3
<i>PSYC 415</i>	<i>History of Neuroscience</i>	3
<i>PSYC 420</i>	<i>Functional Neuroanatomy</i>	3
<i>PSYC 424</i>	<i>Neural Connections: Hands-On Neuroscience</i>	3
PSYC 425	Advanced Perceptual Processes	3
PSYC 426	Molecular Mechanisms of Memory	3
PSYC 427	Neurobiology of Aging	3
PSYC 428	Neuroscience, Society, and the Media	3
PSYC 429	Neuroeconomics and the Science of Consequence	3
PSYC 430	Human Memory	3
PSYC 433	Behavioral Decision Theory	3
PSYC 434	Cognitive Neuroscience	3
PSYC 437	Neurobiology of Learning and Memory	3
PSYC 461	Cognitive Development	3
PSYC 469	Evolution and Development of Biobehavioral Systems	3
PSYC 470	<i>Developmental Research on the Family</i>	3
PSYC 504	Health Psychology	3
PSYC 507	Autism	3
PSYC 517	Addiction	3
PSYC 530	Design and Interpretation of Psychological Research	3
PSYC 531	Tests and Measurement	3
<i>PSYC 532</i>	<i>Quantitative Psychology</i>	3
<i>PSYC 533</i>	<i>The General Linear Model in Psychology</i>	3
<i>PSYC 534</i>	<i>Introduction to Computational Statistics</i>	3
<i>PSYC 568</i>	<i>Emotion</i>	3
<i>PSYC 571</i>	<i>Social Neuroscience</i>	3

H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

All majors must complete [PSYC 101](#) and at least six psychology courses above [PSYC 101](#) with a grade of C (not C-) or better. Students planning to enter graduate programs in psychology are urged to include a research-intensive course such as [PSYC 395](#), [PSYC 470](#), [PSYC 530](#),

or [PSYC 693H](#) and [PSYC 694H](#) in their program and as many courses numbered 400 and above as possible.

Details of the student's program may be worked out in consultation with college and departmental advisors.

Department of Psychology and Neuroscience
Allied Science Electives (BS Psychology degree)
April 2017

Anthropology (ANTH)

143 Human Evolution and Adaptation
148 Human Origins
217 Human Biology in Comparative Perspective
298 Biological Anthropology Theory and Practice
315 Human Genetics and Evolution
317 Evolutionary Perspectives on Human Adaptation and Behavior
318 Human Growth and Development
412 Paleoanthropology
413 Laboratory Methods: Archaeobotany
414 Laboratory Methods: Human Osteology
415 Laboratory Methods: Zooarchaeology
416 Bioarchaeology
423 Written in Bone: CSI and the Science of Death Investigation from Skeletal Remains
437 Evolutionary Medicine
471 Biocultural Perspectives on Maternal and Child Health

Biochemistry (BIOC)

107 Introduction to Biochemistry
108 Introduction to Biochemistry

Biology (BIOL)

Any course above BIOL 101 except BIOL 195, 290, 291, 292, 293, 294, 295, 296, 395, 410, 490, and 495

Biomedical Engineering (BMME)

101 Frontiers of Biomedical Engineering*
150 Introduction to Materials Science
341 Thermodynamics and Kinetics Applied to Solids
350 Electronics for Biomedical Engineers
351 Human Physiology and Biological Measurements for Engineers
405 Biomechanics I
420 Introduction to Synthetic Biology
425 Biomedical Applications of Electromagnetics
435 Biological Physics
445 Systems Neuroscience
455 Biofluid Mechanics
460 Analytical Microscopy*
465 Biomedical Instrumentation I
470 Tissue Engineering
475 Transport Processes
485 Biotechnology

BMME cont.

505 Biomechanics II
510 Biomaterials
515 Introduction to Systems Biology
520 Fundamentals of Materials Engineering*

Biostatistics (BIOS)

Any course above 500H except 540, 543, 690, 691, 693H, and 694H

Chemistry (CHEM)

Any course above CHEM 101 except 190, 291, 395, 396, 397, 410, and 692H

Computer Science (COMP)

Any course above COMP 116 except 185, 190, 380, 390, and 393

Environment and Ecology (ENEC)

108 Our Energy and Climate Crises: Challenges and Opportunities
202 Introduction to the Environmental Sciences
220 North Carolina Estuaries: Environmental Processes and Problems
222 Estuarine and Coastal Marine Science
256 Mountain Biodiversity
304 Restoration Ecology
324 Water in Our World: Introduction to Hydrologic Science and Environmental Problems
352 Marine Fisheries Ecology
403 Environmental Chemistry Processes
406 Atmospheric Processes II
410 Earth Processes in Environmental Systems
411 Oceanic Processes in Environmental Systems
415 Environmental Systems Modeling
416 Environmental Meteorology
431 Systems Analysis for Sustainability
450 Biogeochemical Processes
462 Ecosystem Management
471 Human Impacts on Estuarine Ecosystems
479 Landscape Analysis
489 Ecological Processes in Environmental Systems
530 Principles of Climate Modeling
562 Statistics for Environmental Scientists
567 Ecological Analyses and Application

*BMME 101 was removed from the list because it is a 1-credit course; BMME 460 and 520 were removed from the list because they have been inactivated, effective fall 2017.

Environmental Health Sciences and Engineering (ENVR)

- 205 Engineering Tools for Environmental Problem Solving
- 403 Environmental Chemistry Processes
- 411 Laboratory Techniques and Field Measurements
- 412 Ecological Microbiology
- 413 Limnology
- 416 Aerosol Physics and Chemistry
- 419 Chemical Equilibria in Natural Waters
- 421 Environmental Health Microbiology
- 425 Introduction to Health Physics: Radiation and Radiation Protection
- 430 Health Effects of Environmental Agents
- 442 Biochemical Toxicology
- 451 Elements of Chemical Reactor Engineering
- 453 Groundwater Hydrology
- 468 Advanced Functions of Temporal GIS
- 470 Environmental Risk Assessment
- 472 Quantitative Risk Assessment in Environmental Health Microbiology
- 514 Measurement of NO_x, O₃, and Volatile Organic Compounds
- 552 Organic Geochemistry
- 575 Global Climate Change: Science, Impacts, Solutions
- 630 Systems Biology in Environmental Health
- 661 Scientific Computation I
- 662 Scientific Computation II
- 666 Numerical Methods
- 668 Methods of Applied Mathematics I
- 669 Methods of Applied Mathematics II
- 671 Environmental Physics I
- 672 Environmental Physics II
- 675 Air Pollution, Chemistry, and Physics

Exercise and Sports Science (EXSS)

- 175 Human Anatomy
- 175+275L Human Anatomy + Human Anatomy Laboratory
- 276 Human Physiology
- 376 Physiological Basis of Human Performance
- 380 Neuromuscular Control and Learning
- 385 Biomechanics of Sport
- 475 Functional Anatomy
- 576 Exercise Endocrinology
- 580 Neuromechanics of Human Movement

Geography (GEOG)

- 110 The Blue Planet: An Introduction to Earth's Environmental Systems
- 111 Weather and Climate
- 212 Environmental Conservation and Global Change

GEOG cont.

- 253 Introduction to Atmospheric Processes
- 391 Quantitative Methods in Geography
- 412 Synoptic Meteorology
- 414 Climate Change
- 416 Applied Climatology: The Impacts of Climate and Weather on Environmental and Social Systems
- 440 Earth Surface Processes
- 441 Introduction to Watershed Systems
- 442 River Processes

Geological Sciences (GEOL)

- Any Course above GEOL 100 except 190, 390, 395, 396, 412, 480, 590, 601, 602, 691, 692, and 695

Marine Sciences (MASC)

- Any course above MASC 100 except 190, 220, 390, 395, 396, and 490

Microbiology (MCRO)

- Any course above MCRO 100 except 690

Nutrition (NUTR)

- 240 Introduction to Human Nutrition
- 400 Introduction to Nutritional Biochemistry
- 600 Human Metabolism: Macronutrients
- 620 Human Metabolism: Micronutrients

Philosophy (PHIL)

- 155 Introductory Symbolic Logic
- 455 Symbolic Logic

Physics and Astronomy

- Any course above PHYS 99 except 132, 295, 391, 395, 410, 671L, 672L, 691H, and 692H
- Any course above ASTR 99 except 390

Physiology (PHYI)

- 292 Introduction to Physiology

Statistics and Operations Research (STOR)

- Any course above STOR 100 except 151 or 155