NEUROSCIENCE MAJOR CHECKLIST - Fall ’19 and Spring ’20
- Fall ’19 - Spring ’20 - Both semesters - Not offered

BASIC MATH and SCIENCE COURSES
BSCI 1510 (110a), 1511 (110b), 1510L (111a), and either 1511L (111b) or 1512L (111c)
CHEM 2221 or 2221L; CHEM 2222 or 2221L; and CHEM 2222L and 2222L
MATH 1100, 1200 or 1300 and MATH 1201, 1301, BSCI 3270, PSY 2100, PSY-PC 2110, CS 1101 or CS 1103
PHYS 1501 or 1601; PHYS 1502 or 1602; PHYS 1501L or 1601L, and PHYS 1502L or 1602L

INTRODUCTION to NEUROSCIENCE (required)
NSC 2201 Neuroscience

CELLULAR and MOLECULAR NEUROSCIENCE (6 hours)
BSCI 3252 Cellular Neurobiology
BSCI 3256 Molecules of the Brain
NSC 3235 Biological Basis of Mental Disorders
NSC 3240 Neurobiology of Addiction
NSC 3260 Psychopharmacology
NSC 3269 Developmental Neuroscience
NSC 3245 Drug Discovery for Neuropsy. Disorders
NSC 3891 GABA
NSC 3891 Neurochemistry
NSC 3891 Neurological Disease
NSC 3891 Neurophysiology
PSY 3630 Drugs and Behavior
PSY 3892 The Changing Brain

SYSTEMS and INTEGRATIVE/COGNITIVE NEUROSCIENCE (6 Hours)
BSCI 3230 Biological Clocks
BSCI 3254 Neurobiology of Behavior
NSC 3270 Computational Neuroscience
NSC 3274 Neuroanatomy
NSC 4961 Integrative Neuroscience
NSC 4969 Senior Seminar in Neuroscience
PSY 3120 Cognitive Psychology
PSY 3620 Schizophrenia
PSY 3700 Movement
PSY 3730 Learning and Memory
PSY 3750 Perception
PSY 3760 Mind and Brain
PSY 3765 Social Cognition and Neuroscience
PSY 3775 Human Memory
PSY 3780 The Visual System
PSY 3892 Rhythms & Reps. of the Brain
PSY-PC 3190 Language and the Brain

NEUROSCIENCE LABORATORY COURSES (required)
NSC 3861 Undergraduate Research [2]
NSC 3862 Undergraduate Research [2]

ELECTIVE NEUROSCIENCE COURSES (6 Additional Hours)
Classes from “Cellular and Molecular Neuroscience” [3] (above)
Classes from “Systems and Integrative/Cognitive Neuroscience” [3] (above)
NSC 3851 Independent Reading [1] (may be taken twice)
NSC 3863 Advanced Research in Neuroscience [3]
NSC 4999 Honors Research [3] (must complete application)

RELATED COURSE ELECTIVES (6 Hours)
BME 3100 Systems Physiology
BME 3101 Biorganic Physiology
CHEM 2100 Introduction to Analytical Chemistry
CHEM 3710 Bioorganic Chemistry
CHEM 4720 Drug Design and Development
CHEM 3310 Biophysical Chemistry I
CS 1101 Programming and Problem Solving or CS 1103 Introduction to Programming or
CS 1104 Programming and Problem Solving with Python
MATH 2300 Accelerated Calculus
MATH 2400 Differential Equations or MATH 2420 Differential Equations
PHIL 3616 Philosophy and the Natural Sciences
PHIL 3630 Philosophy of the Mind
PSY 2100 Quantitative Methods
PSY 3100 Abnormal Psychology
PSY 3625 Depression
PSY 3705 Human Sexuality
PSY 3810 Spatial Cognition

Addiction (60 students, TR 1:10 pm, Maier, A.)
Mental Disorders (60 students, MWF 8:10 am, Tomarken, A.)

Not offered:
BME 3100 Systems Physiology
BME 3101 Biorganic Physiology
CHEM 2100 Introduction to Analytical Chemistry
CHEM 3710 Bioorganic Chemistry
CHEM 4720 Drug Design and Development
CHEM 3310 Biophysical Chemistry I
CS 1101 Programming and Problem Solving or CS 1103 Introduction to Programming or
CS 1104 Programming and Problem Solving with Python
MATH 2300 Accelerated Calculus
MATH 2400 Differential Equations or MATH 2420 Differential Equations
PHIL 3616 Philosophy and the Natural Sciences
PHIL 3630 Philosophy of the Mind
PSY 2100 Quantitative Methods
PSY 3100 Abnormal Psychology
PSY 3625 Depression
PSY 3705 Human Sexuality
PSY 3810 Spatial Cognition

114 students, MWF 10:10 am, Graham, T.
12 students, W 1:10 pm, Pitts, R.
20 students, R 1:10 pm, Pitts, R.
110 students, MWF 9:10 am, Woelfle, M.
24 students, T/W 1:10 pm, Woelfle, M.
140 students, MWF 1:10 pm, Nordman, J.
130 students, MWF 2:10 pm, Jackson, L.
27 students, TR 9:35 am, Leich-Hilbun, A.