NEUROSCIENCE & BEHAVIOR MAJOR (2023-2024)

FOUNDATIONS OF WRITTEN COMMUNICATION
(6 credit hours required – Writing Across the Curriculum - WAC)
Grade of “C” or higher is required in each course

___ ENC 1101.......College Writing I (REQUIRED)
___ ENC 1102.......College Writing II +

THE FOLLOWING COURSES BELOW MAY BE SUBSTITUTED FOR ENC 1102:
___ ENC 1939 + ....Special Topic: College Writing
___ HIS 2050 + .....Writing History

Note: Students must take four Writing-Across-the-Curriculum (WAC) courses, two of which must be taken from Foundations of Written Communication.

FOUNDATIONS OF MATHEMATICS & QUANTITATIVE REASONING
(6 credit hours required – Grade of “C” or higher is required)
Student must take 2 of the following courses, 1 must be from group A. The second course may be from group A or group B.

Group A
___ MAC 1105 .... College Algebra
___ MAC 2311 .... Calculus with Analytic Geometry 1 (4 credits)
or any mathematics course for which one of the above courses is the direct prerequisite

Group B
___ MAC 1147 .... Precalculus Algebra & Trigonometry (5 credits)
___ MAC 2233 .... Methods of Calculus (REQUIRED or higher math)
___ MAC 2312 .... Calculus with Analytic Geometry 2 (4 credits)

FOUNDATIONS OF SCIENCE & THE NATURAL WORLD
(6 credit hours required - One of the courses must have a lab)
Student must take 2 of the following courses, 1 must be from group A. The second course may be from group A or group B.

Group A
___ BSC 1010 & L (Required)
Biological Principles
(4 cr. incl. Lab)
___ CHM 2045 & L (Required)
General Chemistry 1
(4 cr. incl. Lab) *
___ PHY 2048 & L (Required)
General Physics 1
(5 credits incl. Lab) *
___ PHY 2053
College Physics 1 (4 credits) **

Group B
___ BSC 1011 & L (Required)
Biodiversity (4 cr. incl Lab)

Foundations indicating a (D) or (L) are linked with a lecture, a lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You must attend the lecture, lab, and/or discussion.

FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR
(6 credit hours required)
Student must take 2 of the following courses, 1 must be from group A. The second course may be from group A or group B.

Group A
___ AMH 2020 & D ...... United States History Since 1877 ◊
___ AMH 2010 & D ...... United States History to 1877
___ ANT 2000 & D .......Introduction to Anthropology (WAC)
___ ECO 2013 ............ Macroeconomic Principles §
___ ECO 2023 ............ Microeconomic Principles §
___ ECP 2002 ............ Contemporary Economic Issues
___ EEX 2091 ............ Disability and Society
___ EME 2620 ............ Digital Literacy in a Globally Connected World ※
___ EVR 1110 ............ Climate Change: The Human Dimensions
___ EVR 2017 ............ Environment and Society
___ LIN 2001 ............ Introduction to Language (online course)
___ PAD 2081 ............ Risk Resilience and Rising Seas ±
___ PAD 2258 ............ Changing Environment of Soc., Bus., & Gov’t
___ PSY 1012 ............ Introduction to Psychology (Required)
___ SYG 1000 ............ Sociological Perspectives
(Required)

Group B
___ AMH 2010 & D ...... United States History to 1877
___ CCJ 2002 ............. Law, Crime & the Criminal Justice System ±
___ DIG 2202 ............. Digital Culture
___ ECP 2002 ............. Contemporary Economic Issues
___ EEM 2620 ............. Digital Literacy in a Globally Connected World ※
___ EVR 1110 ............. Climate Change: The Human Dimensions
___ EVR 2017 ............. Environment and Society
___ LIN 2001 ............. Introduction to Language (online course)
___ PAD 2081 ............. Risk Resilience and Rising Seas ±
___ PAD 2258 ............. Changing Environment of Soc., Bus., & Gov’t
___ SYG 2010 ............. Social Problems
___ URP 2051 ............. Designing the City
FOUNDATIONS IN GLOBAL CITIZENSHIP
(6 credit hours required)
Student must choose two (2) courses from among the following:
____ ANT 2410...............Culture and Society
____ EDF 2854 ...............Educated Citizen in Global Context
____ GEA 2000...............World Geography
____ INR 2002 ..............Introduction to World Politics
____ JST 2452 ..............Global Jewish Communities Ω
____ LAS 2000...............Intro to Caribbean & Latin American Studies
____ LIN 2607 ..............Global Perspectives on Language
____ MAR 2142 ..............Culture, Consumers and the Global Marketplace Η
____ MUH 2121 .............Music in Global Society Ω
____ POT 2000 ..............Global Political Theory
____ SOW 1005 .............Global Perspectives of Social Services
____ SOW 1130 .............Race and Cultural Inclusion in Social Work
____ WOH 2012 & D ......History of Civilization 1 (WAC) ++
____ WOH 2022 ............History of Civilization 2
____ WST 2351 ............Gender and Climate Change

STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS
Course selections should be made in consultation with an academic advisor.

Legend

+   - ENC 1101 is a prerequisite.
++  - Two Foundations of Written Communications classes are required before taking this course.
§   - Sophomore standing (30 credits earned) is a requirement to take this course.
*   - MAC 2311 is a prerequisite for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
**  - MAC 2233 are prerequisites for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
‡   - Co-requisite of College Algebra (MAC 1105) or a prerequisite of Introductory Chemistry (CHM 1025).
±   - Starting Spring 2022
Ω   - Starting Spring 2023
Η   - Starting Fall 2023
⊙   - See information box below regarding Civic Literacy Requirement
WAC - (WAC) Writing across the curriculum course.

$ Writing Across the Curriculum (WAC)/Gordon Rule
Students must attain grades of "C" or higher. 12 credits of writing (WAC) and 6 credits of mathematics are required.
Please note:
Students must take four (4) WAC courses. Two (2) courses are to be taken from Foundations of Written Communication. We strongly recommend the two additional WAC courses come from these courses: PHI 2010, WOH 2012, LIT 2010, LIT 2030, LIT 2040, LIT 2070 and LIT 2391. See advisor for additional details.

Elective Credits
The number of elective credits allowed varies by major. Please consult with an academic advisor to determine the number of elective credits required for your major. Certain majors do not allow any electives.
MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

NEUROSCIENCE AND BEHAVIOR MAJOR

Major Core (21 cr., 7 courses) - All required courses must earn at least a “C- “. Chemistry courses must earn at least a “C”.

- BSC 1011 & L Biodiversity with lab (3 + 1 = 4 cr.) – as indicated on first page
- BSC 1010 & L Biological Principles with lab (3 + 1 = 4 cr.) – as indicated on first page
- PSB 3002 Biological Basis of Behavior I (3 cr.) – PSY 1012 & PSY 3234 are prerequisites
- PCB 3063 Genetics (4 cr.) – BSC 1011/1010 and CHM 2045/2046 all with labs are prerequisites
- PSY 3213 Research Methods in Psychology (3 cr.) – PSY 1012 & PSY 3234 are prerequisites
- PSY 3234 Experimental Design and Statistical Inference (3 cr.) – PSY 1012 is a prerequisite
- STA 3163L Intermediate Statistics Lab (1 cr.) – PSY 3234 is a prerequisite and/or co-requisite
- CBH 4024 Comparative Animal Behavior (3 cr.) – PSY 1012 & BSC 1010 are prerequisites

Other Science Requirements (23 credits, 25 credits with Physics Labs, 6 courses)

- CHM 2046 & L General Chemistry II with lab (3 + 1 = 4 cr.)
- CHM 2210 & D Organic Chemistry I (3 cr.)
- CHM 2211 & L Organic Chemistry II (5 cr. including Lab)
- BCH 3033 Biochemistry I (3 cr.) – CHM 2210/2211 are prerequisites

Select two (2) Physics classes:

AND
- PHY 2048** General Physics I (4 + 1 (optional lab) = 5 cr.)
- PHY 2049 General Physics II (4 + 1 (optional lab) = 5 cr.)

OR
- PHY 2053*** College Physics I (4 + 1 (optional lab) = 5 cr.)
- PHY 2054 College Physics II (4 + 1 (optional lab) = 5 cr.)

Students are expected to complete a minimum of 12 credits below:

- EXP 3505 Cognition (3 cr.) - PSY 1012 is a prerequisite. PSY 3234 is a prerequisite and/or co-requisite
- EXP 4120 Auditory Perception (3 cr.) - PSY 1012 is a prerequisite
- EXP 4204 Human Perception (3 cr.) – PSY 1012 and either EXP 3505 or PSB 3002 are prerequisites
- EXP 4304 Psychology of Motivation (3 cr.) – PSY 1012 is a prerequisite
- OCB 4043 & L Marine Biology & Marine Biology Field Studies & Lab (4 cr. total) – ZOO 3205/L are prerequisites
- PCB 3023 Cell Biology (3 cr.) – BSC 1010 & CHM 2045 are prerequisites
- PCB 3674 Evolution (3 cr.) – BSC 1010 is a prerequisite
- PCB 3703 & L Human Morphology and Function I & Lab (4 cr.) – BSC 1010,1011 w/Labs & CHM 2210,2211 are prerequisites
- PCB 3704 & L Human Morphology and Function II & Lab (4 cr.) – BSC 1010,1011 w/Labs & CHM 2210,2211 are prerequisites
- PCB 4043 Principles of Ecology (3 cr.) – BSC 1011 & 1010, CHM 2045 with Labs are prerequisites
- PCB 4414C Behavioral Ecology (4 cr.) – PCB 3063 is a prerequisite
- PCB 4728 & L Comparative Animal Physiology & Lab (4 cr.) – BSC 1010,1011 w/Labs & CHM 2210,2211 are prerequisites
- PCB 4842 Cellular Neuroscience and Disease (cr.) – PCB 3023 & PCB 3063 are prerequisites
- PCB 4843C Practical Cell Neuroscience (3 cr.) – PCB 3063 is a prerequisite
- PSB 3002L Computer Laboratory in Psychobiology (3 cr.) – PSB 3002 is a prerequisite
- PSB 4004L Lab in Psychobiology (3 cr.) – EXP 4404 or PSB 4504 or PSB 3002 is a prerequisite
- PSB 4006 Biological Basis of Behavior II (3 cr.) – PSB 3002 is a prerequisite
- PSB 4240 Neuropsychology (3 cr.) – PSY 1012 & PSB 3002 are prerequisites
- PSB 4323 Human Psychophysiology (3 cr.) – PSB 3002 is a prerequisite
- PSB 4444 Psychopharmacology (3 cr.) – PSY 1012 & PSB 3302 are prerequisites
- PSB 4504 Developmental Psychobiology (3 cr.) – PSY 1012 is a prerequisite
- PSB 4810 Neurobiology of Learning and Memory (3 cr.) – PSB 3002, PSB 4006 & PSY 3213 prerequisites
- PSB 4915 Directed Independent Research in Neuroscience and Behavior (1-3 cr.)
- PSB 4917 Directed Independent Research in Neuroscience and Behavior (0-3 cr.)
- PSB 4930 Special Topics in Neuroscience and Behavior (3 cr.)
- PSY 4833 Biopsychology of Language (3 cr.) – PSY 1012 is a prerequisite
- PSY 6515 Developmental Neurobiology (3 cr.) – PSY 1012 & PSB 3002 are prerequisites
- ZOO 3205 & L Invertebrate Zoology and Lab (5 cr.) – BSC 1011 & BSC 1010 with labs are prerequisites
- ZOO 4402 & L Functional Biology of Marine Animals & Lab (4 cr.) – BSC 1011/1010 & OCB 4043 are prerequisites
- ZOO 4472 & L Ornithology and Lab (4 cr.) – BSC 1011 & BSC 1010 with labs are prerequisites
- ZOO 4690 & L Vertebrate Structure Development and Evolution & Lab (5 cr.) – 8 credits of general biology prerequisites
- ZOO 4742 Principles of Human Neuroanatomy (3cr.) – 8 credits of general biology prerequisites

UPPER DIVISION RESTRICTED FREE ELECTIVES (13 credits) – Must see an academic advisor within the college.

FREE ELECTIVES (5 credits) - Free electives are courses in any college, any department, needed to meet the 120 credits required for graduation.

FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language) - REQUIRED FOR MAJOR

Students with more than one year of a foreign language in high school should enroll in the second half of the beginners’ foreign language class (ARA/CHI/FRE/GER/HBR/ITA/JPN/LAT/SPN 1121) or a higher-level course. Proficiency for a first-level course can be earned by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor. CLEP exam credits meet this requirement: see the catalog.