

NEUROSCIENCE & BEHAVIOR MAJOR (2023-2024)

Charles E. Schmidt College of Science
Bachelor of Science (BS)

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

Group B

- | | |
|---|--|
| <ul style="list-style-type: none"> ___ 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) ** | <ul style="list-style-type: none"> ___ BSC 1011 & L (Required)
Biodiversity (4 cr. incl Lab) |
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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 ◊
- ___ ANT 2000 & D Introduction to Anthropology **(WAC)**
- ___ ECO 2013 Macroeconomic Principles §
- ___ POS 2041 Government of the United States ◊
- ___ PSY 1012 Introduction to Psychology **(Required)**
- ___ SYG 1000 Sociological Perspectives
(Highly Recommended)

Group B

- ___ AMH 2010 & D United States History to 1877
- ___ CCJ 2002 Law, Crime & the Criminal Justice System ‡
- ___ DIG 2202 Digital Culture
- ___ 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
- ___ SYG 2010 Social Problems
- ___ URP 2051 Designing the City

(D) = Discussion, (L) = Lab

Courses 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 IN GLOBAL CITIZENSHIP

(6 credit hours required)

Student must choose two (2) courses from among the following:

- ___ ANT 2410.....Culture and Society
- ___ EDF 2854Educated Citizen in Global Context
- ___ GEA 2000.....World Geography
- ___ INR 2002.....Introduction to World Politics
- ___ JST 2452Global Jewish Communities Ω
- ___ LAS 2000.....Intro to Caribbean & Latin American Studies
- ___ LIN 2607Global Perspectives on Language
- ___ MAR 2142Culture, Consumers and the Global Marketplace ✕
- ___ MUH 2121Music in Global Society Ω
- ___ POT 2000.....Global Political Theory
- ___ SYP 2450.....Global Society
- ___ SOW 1005Global Perspectives of Social Services
- ___ SOW 1130Race and Cultural Inclusion in Social Work
- ___ WOH 2012 & D.....History of Civilization 1 (WAC) ++
- ___ WOH 2022.....History of Civilization 2
- ___ WST 2351Gender and Climate Change

FOUNDATIONS OF HUMANITIES

(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

- ___ ARH 2000Art Appreciation
- ___ MUL 2010.....Music Appreciation
- ___ PHI 2010 & D.....Introduction to Philosophy (WAC) ++
- ___ THE 2000Theatre Appreciation

Group B

- ___ ARC 2208.....Culture & Architecture
- ___ DAN 2100Appreciation of Dance
- ___ FIL 2000 & D.....Film Appreciation
- ___ HUM 2471Racism and Anti-Racism
- ___ LIT 2010.....Interpretation of Fiction (WAC) ++
- ___ LIT 2030.....Interpretation of Poetry (WAC) ++
- ___ LIT 2040.....Interpretation of Drama (WAC) ++
- ___ LIT 2070.....Interpretation of Creative Nonfiction (WAC) ++
- ___ LIT 2100.....Introduction to World Literature
- ___ LIT 2931.....Special Topics in Literature (WAC) ++ Ω
- ___ SPC 2608Public Speaking ±

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
- ✕ - 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.

<https://myfau.fau.edu>

Go to MyFAU to:

- Check e-mail
- See FAU Announcements

FAU Self-Service:

- Course schedules
- Registration (drop/add classes) and withdrawals
- Student records and financial aid
- Tuition payments
- The University Course Catalog

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.**

Civic Literacy Requirement

<https://www.fau.edu/ugstudies/civic-literacy-requirement/>

Beginning in Summer 2021, Florida Legislature amended the statute and now requires students to complete **both** a civic literacy course (AMH 2020 or POS 2041) and an assessment exam.

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:

	PHY 2048**	General Physics I (4 + 1 (optional lab) = 5 cr.)
AND	PHY 2049	General Physics II (4 + 1 (optional lab) = 5 cr.)
		OR
	PHY 2053***	College Physics I (4 + 1 (optional lab) = 5 cr.)
AND	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 4723 & 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.