

**NEUROSCIENCE & BEHAVIOR MAJOR (2022-2023)**

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"> <li>___ BSC 1010 &amp; L &amp; D <b>(Required)</b><br/>Biological Principles<br/>(4 cr. Incl. Lab &amp; Dis)</li> <li>___ CHM 2045 &amp; L <b>(Required)</b><br/>General Chemistry 1<br/>(4 cr. Incl. Lab) ‡</li> <li>___ PHY 2048 &amp; L <b>(Required)</b><br/>General Physics 1<br/>(5 credits incl. Lab) *</li> <li>___ PHY 2053<br/>College Physics 1 (4 credits) **</li> </ul> | <ul style="list-style-type: none"> <li>___ BSC 1011 &amp; L &amp; D <b>(Required)</b><br/>Biodiversity (4 cr. incl Lab &amp; Dis)</li> </ul> |
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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
- \_\_\_ 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 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
- \_\_\_ MUH 2121 .....Music in Global Society Ω
- \_\_\_ POT 2000.....Global Political Theory
- \_\_\_ SYP 2450.....Global Society
- \_\_\_ 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

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

#### Group B

- \_\_\_ ARC 2208.....Culture & Architecture
- \_\_\_ DAN 2100 .....Appreciation of Dance
- \_\_\_ FIL 2000 & D.....Film Appreciation
- \_\_\_ HUM 2471 .....Racism 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 2608 .....Public 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
- ◇ - 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

#### (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.

#### Civic Literacy Requirement

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

Beginning in Fall 2018, students entering a Florida public institution as a degree-seeking student for the first time needs to demonstrate civic literacy through either taking a certain course (AMH 2020 or POS 2041) or passing an assessment exam. 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.

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

**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.) – <b>CHM 2210/2211 are prerequisites</b>

**Select two (2) Physics classes:**

	PHY 2048**	General Physics I (4 + 1 (optional lab) = 5 cr.)
<b>AND</b>	PHY 2049	General Physics II (4 + 1 (optional lab) = 5 cr.)
		<b>OR</b>
	PHY 2053***	College Physics I (4 + 1 (optional lab) = 5 cr.)
<b>AND</b>	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.) - <b>PSY 1012 is a prerequisite. PSY 3234 is a prerequisite and/or co-requisite</b>
EXP 4120	Auditory Perception (3 cr.) - <b>PSY 1012 is a prerequisite</b>
EXP 4204	Human Perception (3 cr.) – <b>PSY 1012 and either EXP 3505 or PSB 3002 are prerequisites</b>
EXP 4304	Psychology of Motivation (3 cr.) – <b>PSY 1012 is a prerequisite</b>
OCB 4043 & L	Marine Biology & Marine Biology Field Studies & Lab (4 cr. total) – <b>ZOO 3205/L are prerequisites</b>
PCB 3023	Cell Biology (3 cr.) – <b>BSC 1010 &amp; CHM 2045 are prerequisites</b>
PCB 3674	Evolution (3 cr.) – <b>BSC 1010 is a prerequisite</b>
PCB 3703 & L	Human Morphology and Function I & Lab (4 cr.) – <b>BSC 1010,1011 w/Labs &amp; CHM 2210,2211 are prerequisites</b>
PCB 3704 & L	Human Morphology and Function II & Lab (4 cr.) – <b>BSC 1010,1011 w/Labs &amp; CHM 2210,2211 are prerequisites</b>
PCB 4043	Principles of Ecology (3 cr.) – <b>BSC 1011 &amp; 1010, CHM 2045 with Labs are prerequisites</b>
PCB 4414C	Behavioral Ecology (4 cr.) – <b>PCB 3063 is a prerequisite</b>
PCB 4723 & L	Comparative Animal Physiology & Lab (4 cr.) – <b>BSC 1010,1011 w/Labs &amp; CHM 2210,2211 are prerequisites</b>
PCB 4842	Cellular Neuroscience and Disease (cr.) – <b>PCB 3023 &amp; PCB 3063 are prerequisites</b>
PCB 4843C	Practical Cell Neuroscience (3 cr.) – <b>PCB 3063 is a prerequisite</b>
PSB 3002L	Computer Laboratory in Psychobiology (3 cr.) – <b>PSB 3002 is a prerequisite</b>
PSB 4004L	Lab in Psychobiology (3 cr.) – <b>EXP 4404 or PSB 4504 or PSB 3002 is a prerequisite</b>
PSB 4006	Biological Basis of Behavior II (3 cr.) – <b>PSB 3002 is a prerequisite</b>
PSB 4240	Neuropsychology (3 cr.) – <b>PSY 1012 &amp; PSB 3002 are prerequisites</b>
PSB 4323	Human Psychophysiology (3 cr.) – <b>PSB 3002 is a prerequisite</b>
PSB 4444	Psychopharmacology (3 cr.) – <b>PSY 1012 &amp; PSB 3302 are prerequisites</b>
PSB 4504	Developmental Psychobiology (3 cr.) – <b>PSY 1012 is a prerequisite</b>
PSB 4810	Neurobiology of Learning and Memory (3 cr.) – <b>PSB 3002, PSB 4006 &amp; PSY 3213 prerequisites</b>
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.) – <b>PSY 1012 is a prerequisite</b>
PSY 6515	Developmental Neurobiology (3 cr.) – <b>PSY 1012 &amp; PSB 3002 are prerequisites</b>
ZOO 3205 & L	Invertebrate Zoology and Lab (5 cr.) – <b>BSC 1011 &amp; BSC 1010 with labs are prerequisites</b>
ZOO 4402 & L	Functional Biology of Marine Animals & Lab (4 cr.) – <b>BSC 1011/1010 &amp; OCB 4043 are prerequisites</b>
ZOO 4472 & L	Ornithology and Lab (4 cr.) – <b>BSC 1011 &amp; BSC 1010 with labs are prerequisites</b>
ZOO 4690 & L	Vertebrate Structure Development and Evolution & Lab (5 cr.) – <b>8 credits of general biology prerequisites</b>
ZOO 4742	Principles of Human Neuroanatomy (3cr.) – <b>8 credits of general biology prerequisites</b>

**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.