**NEUROSCIENCE & BEHAVIOR MAJOR**  
(2013 – 2014)

The Charles E. Schmidt College of Science  
Bachelor of Science (BS) and Honors in Major

**FOUNDATIONS OF WRITTEN COMMUNICATION**  
(Gordon Rule Writing (GRW), 6 credits required)  
(A grade of “C” or higher is required in each course)

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

THE FOLLOWING COURSES CAN BE SUBSTITUTED FOR ENC 1102:

- ANT 1471+ ............Cultural Difference in a Globalized Society
- ENC 1930+ ..........University Honors Seminar in Writing (Permit Only)
- ENC 1939+ ..........Special Topic: College Writing II
- ENC 2452+ ..........Honor Composition for Science
- NSP 1195+ ..........Being Cared For: Reflections from Other Side of Bed

Students must take four (4) GRW Courses.  
Two (2) must be taken from Foundations of Written Communications.  
§Two additional courses are REQUIRED.

**FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR**  
(6 credits required, select 2 courses from 2 different departments)

**Anthropology Department**
- ANT 2005 & D ..................Introduction to Anthropology

**Economics Department**
- ECO 2013# ..................Macroeconomic Principles
- ECO 2023# ..................Microeconomic Principles
- ECP 2002 ..................Contemporary Economic Issues

**Exceptional Student Education Department**
- EEX 2091 ..................Disability and Society

**Geosciences Department**
- EVR 2017 ..................Environment and Society

**Political Science Department**
- POS 2041 ..................Government of the United States

**Psychology Department**
- PSY 1012 ..................General Psychology (REQUIRED)

**Public Administration Department**
- PAD 2258 ..................Changing Env. of Soc., Bus., & Government

**Sociology Department**
- SYG 1000 ..................Sociological Perspectives
- SYG 2010 ..................Social Problems

**Urban & Regional Planning Department**
- URP 2051 ..................Designing the City

**FOUNDATIONS OF SCIENCE & THE NATURAL WORLD**  
(8 credits req., 2 courses)

- **Biology & Chemistry courses must be taken with a Lab**

  **Biology Department**
  - BSC 1011 & L & D ..........Biodiversity (4 cr. incl. Lab and Discussion)

  **Chemistry Department**
  - CHM 2045 & L..........General Chemistry I (4 credits Incl. Lab)

  Additional Biology and Chemistry classes are needed.

**FOUNDATIONS OF MATHS & QUANTITATIVE REASONING**  
(Grade of “C” or higher required. 6 credits required)

PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH CLASS  
NOTE: Students must take at least one course with the prefix MAC from the list below

- MAC 1105 .................College Algebra
- MAC 1114 .................Trigonometry
- MAC 1140 .................Precalculus Algebra
- MAC 1147 .................Precalculus Algebra & Trigonometry (5 cr)
- MAC 2233 .................Methods of Calculus (REQUIRED)

A higher level calculus class can be taken instead of MAC 2233
- MAC 2311 .................Calculus with Analytic Geometry I (4 cr)

Additional math courses are available upon request.  
Consult with your academic advisor.

**FOUNDATIONS IN GLOBAL CITIZENSHIP**  
(Select 2 courses from 2 different departments) (6 cr. req.)

- **At least 1 course must be Global Perspectives – (GP)**
  - Anthropology Department
    - ANT 2410 ............Culture and Society (GP)
  - Curriculum, Culture, & Educational Inquiry Department
    - EDI 2654 ..........Educated Citizen in Global Context (GP)
  - Geography Department
    - GEA 2000 & D ..........World Geography (GP)
  - History Department
    - AMH 2010 (P/F) ......United States History to 1877
    - AMH 2020 (P/F) ......United States History Since 1877
    - WOH 2102 & D++ ...History of Civilization I (GRW) (GP)
    - WOH 2222 ............History of Civilization II (GP)
  - Languages, Linguistics, & Comparative Literature Department
    - LIT 2000 .............Intro to Caribbean & Latin American Studies
    - LIN 2607 ..........General Perspectives on Language (GP)
  - Philosophy Department
    - PHI 2010 & D++ ......Introduction to Philosophy (GRW)
  - Political Science Department
    - INR 2002 ..........Introduction to World Politics (GP)
  - Sociology Department
    - SYD 2790 ............Race, Class, Gender, and Sexuality
    - SYP 2450 ..........Global Society (GP)
  - Social Work Department
    - SOW 1005 ..........Global Perspectives of Social Services (GP)

**FOUNDATIONS OF CREATIVE EXPRESSION**  
(6 credits req., select 2 courses from 2 different departments)

- **Architecture Department**
  - ARC 2028 ..........Culture & Architecture

- **Visual Art & Art History Department**
  - ARH 2000 (P/F) ......Art Appreciation

- **School of Communication & Multimedia Studies**
  - FIL 2000 & D ..........Film Appreciation

- **English Department**
  - LIT 2010++ ..........Interpretation of Fiction (GRW)
  - LIT 2030++ ..........Interpretation of Poetry (GRW)
  - LIT 2040++ ..........Interpretation of Drama (GRW)
  - LIT 2070++ ..........Interpretation of Creative Nonfiction (GRW)

- **Languages, Linguistics, & Comparative Literature Department**
  - LIT 2100 ..........Intro to World Literature

- **Music Department**
  - MUL 2000 ..........History & Appreciation of Music

- **Theatre & Dance Department**
  - DAN 2010 ..........Appreciation of Dance
  - THE 2000 ..........Appreciation of Theatre
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/GRE/GRK/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.

NOTE: Native Speakers of a foreign language must consult the Languages, Linguistics, and Comparative Literature Department regarding this requirement.

NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE GORDON RULE WRITING REQUIREMENT. See the University Advising Services Office for details.

HONORS NOTE: Students can apply for the PSYCHOLOGY HONORS PROGRAM after completion of 60 credits, and before completion of 105 credits. Students must have a 3.2 overall & Psychology GPA to be admitted and retained in the Honors track.

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<tr>
<th>Credits</th>
<th>Requirement</th>
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<tr>
<td>46</td>
<td>Intellectual Foundations Program and Foreign Language</td>
</tr>
<tr>
<td>18</td>
<td>Free Electives (13 credits must be upper-division)</td>
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<tr>
<td>56</td>
<td>Neuroscience and Behavior Major &amp; Concentration</td>
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<tr>
<td>120</td>
<td>TOTAL (45 credits at upper division)</td>
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NOTE: See the catalog for specific requirements, course descriptions, and additional information. The requirements for some Intellectual Foundations Program (I.F.P.) courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

The Charles E Schmidt College of Science has the following requirements:
(1) Any course work in the major field transferred from another institution must be approved by the major dept;
(2) No major course may be taken pass/fail;
(3) The maximum amount of credit which may be earned through co-op is 10 credits; some departments allow some of these credits to substitute for major courses, check with department for specifics.

Psychology has the following requirements:
(1) Up to a maximum of 20 credits in Psychology may be transferred from another institution, with dept. approval; and
(2) 22 credits minimum must be taken from courses with the department at FAU.

All course selections should be made in consultation with an advisor.
## MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

### NEUROSCIENCE AND BEHAVIOR MAJOR

**Major Core (21 credits, 7 courses)**

- BSC 1010 & LBiological Principles with lab (3 + 1 = 4 cr)
- PSB 3002  Biological Basis of Behavior I (3 cr) – PSY 1012 is a prerequisite
- PCB 3063  Genetics (4 cr) – BSC 1011 & BSC 1010 with labs are prerequisites
- PSY 3213  Research Methods in Psychology (3 cr) – PSY 1012 is a prerequisite
- 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
- CBB 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) – BSC 1010/1011 and CHM 2045/2046 all with labs are prerequisites

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

- AND PHY 2048**  General Physics I (4 + 1 (optional lab) = 5 cr)
- OR PHY 2049  General Physics II (4 + 1 (optional lab) = 5 cr)
- AND PHY 2053***  College Physics I (4 + 1 (optional lab) = 5 cr)
- AND PHY 2054  College Physics II (4 + 1 (optional lab) = 5 cr)

**CONCENTRATION AREA REQUIREMENTS**

(12 credits in ONE AREA, 3-4 courses)

Students are expected to complete a minimum of 12 credits in one of the following areas of concentration:

### I. Ethology/Comparative Psychology

- 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 2203 is prerequisite
- PCB 4043  Principles of Ecology (3 cr) – BSC 1011 & 1010, CHM 2045 & 2046 with labs
- PCB 4414C  Behavioral Ecology (4 cr) – PCB 3063 is a prerequisite
- PCB 4674  Evolution (3 cr) – PCB 3063 & BCH 3033 are prerequisites
- PCB 4723 & L Comparative Animal Physiology & Lab (4 cr) – BSC 1011/1010 & CHM 2210 are prerequisites
- 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 3302 is a prerequisite
- PSB 4504  Developmental Psychobiology (3 cr) – PSY 1012 is a prerequisite
- ZOO 2203 & 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 Comparative Vertebrate Morphogenesis with lab (3 cr) – 8 credits of general biology prerequisites

### II. Behavioral Neuroscience

- EXP 4120  Auditory Perception
- EXP 4204  Human Perception (3 cr) – PSY 1012 and either EXP 3505 or PSB 3002 are prerequisites
- PCB 4723 & L Comparative Animal Physiology & Lab (4 cr) – BSC 1011/1010 & CHM 2210 are prerequisites
- 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 3302 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
- PSY 4833  Biopsychology of Language (3 cr) – PSY 1012 is a prerequisite
- PSY 6515  Developmental Neurobiology (3 cr) – PSY 1012 & PSB 3002 are prerequisites
III. Cellular Molecular Neuroscience

PCB 4842 § Cellular Neuroscience and Disease (cr) – PCB 3063 & PCB 4023 are prerequisites

or

PCB 4843C § Practical Cell Neuroscience (3 cr) – PCB 3063, PCB 4023 & PCB 4842 are prerequisites

PCB 3703 & L Human Morphology and Function I & Lab (4 cr) – BSC 1011 & 1010 with labs are prerequisites

PCB 3704 & L Human Morphology and Function II & Lab (4 cr) – BSC 1011/1010 & CHM 2221 are prerequisites

PCB 4023 Molecular and Cell Biology (3 cr) – BCH 3033 is a prerequisite

PCB 4723 & L Comparative Animal Physiology & Lab (4 cr) – BSC 1011/1010 & CHM 2210 are prerequisites

PSB 4810 Neurobiology of Learning and Memory (3 cr) – PSB 3002, PSB 4006 & PSY 3213 prerequisites

§ One of these courses is required.

FREE ELECTIVES (18 credits, 13 credits must be upper-division)

Free electives are courses in any college, any department, needed to meet the 120 credits required for graduation.