**NEUROSCIENCE & BEHAVIOR MAJOR (2014 – 2015)**

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>College Writing I (REQUIRED)</td>
<td></td>
</tr>
<tr>
<td>ENC 1102+</td>
<td>College Writing II</td>
<td>The following courses can be substituted for ENC 1102:</td>
</tr>
<tr>
<td>ANT 1471+</td>
<td>Cultural Difference in a Globalized Society</td>
<td></td>
</tr>
<tr>
<td>ENC 1930+</td>
<td>University Honors Seminar in Writing (Permit Only)</td>
<td></td>
</tr>
<tr>
<td>ENC 1939+</td>
<td>Special Topic: College Writing II</td>
<td></td>
</tr>
<tr>
<td>HIS 2934+</td>
<td>Writing History</td>
<td></td>
</tr>
<tr>
<td>NSP 1195+</td>
<td>Being Cared For: Reflections from Other Side of Bed</td>
<td>Students must take four (4) GRW Courses. Two (2) must be taken from Foundations of Written Communications. §Two additional courses are REQUIRED.</td>
</tr>
</tbody>
</table>

**FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR**

(6 credits required, select 2 courses from 2 different departments)

**Anthropology Department**
- ANT 2410 .......... 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**

(5 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 MATHEMATICS & 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MAC 1114</td>
<td>Trigonometry</td>
</tr>
<tr>
<td>MAC 1140</td>
<td>Precalculus Algebra</td>
</tr>
<tr>
<td>MAC 1147</td>
<td>Precalculus Algebra &amp; Trigonometry (5 cr)</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Methods of Calculus (REQUIRED)</td>
</tr>
</tbody>
</table>

A higher level calculus class can be taken instead of MAC 2233

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I (4 cr)</td>
</tr>
</tbody>
</table>

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**
- EDF 2854 .......... Educated Citizen in Global Context (GP)

**Geography Department**
- GEA 2000 .......... World Geography (GP)

**History Department**
- AMH 2010 (P/F) ....... United States History to 1877
- AMH 2020 (P/F) ....... United States History Since 1877
- WOH 2012 & D++ .... History of Civilization I (GRW) (GP)
- WOH 2022 .... History of Civilization II (GP)

**Languages, Linguistics, & Comparative Literature Department**
- LAS 2000 .......... Intro to Caribbean & Latin American Studies
- LIN 2607 .......... Global 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 2208 .......... 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 2100 .......... Interpretation of Fiction (GRW)
- LIT 2100 .......... Interpretation of Poetry (GRW)
- LIT 2100 .......... Interpretation of Drama (GRW)
- LIT 2100 .......... Interpretation of Creative Nonfiction (GRW)

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

**Music Department**
- MUL 2010 .......... History & Appreciation of Music

**Theatre & Dance Department**
- DAN 2100 .......... 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/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.

| 46 credits | Intellectual Foundations Program and Foreign Language |
| 18 credits | Free Electives (13 credits must be upper-division) |
| 56 credits | Neuroscience and Behavior Major & Concentration |
| **120 CREDITS** | **TOTAL (45 credits at upper division)** |

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 department;
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 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)
- PSB 3002: Biological Basis of Behavior I (3 cr) — PSY 1012 is a prerequisite
- 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 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
- 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 2210/2221 are prerequisites

Select two (2) Physics classes:
- 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)

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.