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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>College Writing I (REQUIRED)</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>College Writing II</td>
</tr>
</tbody>
</table>

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**
- COP 1034C .... Computer Programming & Data Literacy for Everyone
  (For Non-College Engineering & Computer Science majors)
- MAC 1147 .... Precalculus Algebra & Trigonometry (4 credits)
- MAC 2210 .... Intro Calculus w/Applications (4 credits) (Permit Only)
- MAC 2233 .... Methods of Calculus
- MAC 2241 .... Life Science Calculus 1 (4 credits) ***
- MAC 2312 .... Calculus with Analytic Geometry 2 (4 credits)
- PHI 2102 ....... Logic

***Must Select One - Please discuss your math selection with your academic advisor.

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>BSC 1010</td>
<td>Biological Principles (4 cr. Incl. Lab &amp; Dis)</td>
</tr>
<tr>
<td>CHM 2045</td>
<td>General Chemistry 1 (4 cr. Incl. Lab)</td>
</tr>
</tbody>
</table>

**Group A**
- PHY 2048 & L General Physics 1 (5 credits incl. Lab) *
- PHY 2053 College Physics 1 (5 credits incl. Lab) **

**Group B**
- BSC 1011 & L & D (Required)
- Biodiversity (4 cr. incl Lab & Dis)

**Required: select one below**

- AMH 2020 & D ..... United States History Since 1877 (P/F)
- ANT 2000 & D ...... Introduction to Anthropology (WAC)
- ECO 2013 .......... Macroeconomic Principles §
- POS 2041 .......... Government of the United States
- PSY 1012 ......... Introduction to Psychology (see note below)
- SYG 1000 .......... Sociological Perspectives
  (recommended for pre-health-related majors)

**Group B**
- AMH 2010 & D ...... United States History to 1877 (P/F)
- 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 2258 .......... Changing Environment of Soc., Bus., & Gov’t
- SYG 2010 .......... Social Problems
- URP 2051 .......... Designing the City

Note: A required course to take PSY 3234 per the University catalog.
**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
- LAS 2000 .............. Intro to Caribbean & Latin American Studies
- LIN 2607 .............. Global Perspectives on Language
- SYP 2450 .............. Global Society
- SOW 1005 .............. Global Perspectives of Social Services
- 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 (P/F)
- 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
- LIT 2100 .............. Introduction to World Literature
- 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) ++

**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.
** - MAC 2233 is a prerequisite 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).

**WAC** - (WAC) Writing across the curriculum course.

**§ Writing Across the Curriculum (WAC)**

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: ANT 2000, PHI 2010, WOH 2012, LIT 2010, LIT 2030, LIT 2040 and LIT 2070. See advisor for additional details.

**P/F**

Certain designated undergraduate courses may be taken for a letter grade of pass (P) or fail (F). Students must indicate the grade option preferred when registering; otherwise, a letter grade will be given. The maximum credit available to any student on the P/F option is one course per term with a maximum of 12 credits during a student’s entire course of study. This option is not available for courses in the student’s major, for students on probation, or for Engineering majors.

**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.

**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

https://myfau.fau.edu

University Advising Services
April 10, 2021
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 WAC/GRW REQUIREMENT. See the University Advising Services Office for details.

**NOTE:** See catalog for specific requirements, course descriptions, and additional information. The requirements for some Intellectual Foundations Program (IFP) 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 Biology department has the following requirements (per the University catalog):

1. A student must earn a “C-” or better in all biology AND cognate courses taken as part of the requirements for an undergraduate degree in Biological Sciences. However, students must earn a “C” in chemistry courses.
2. Any course work in the major field transferred from another institution must be approved by the major dept.
3. No major course may be taken pass/fail.
4. 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.
5. The Department of Biological Sciences offers an Honors Thesis Program that recognizes research accomplishments of talented undergraduates. Eligible students must have a minimum of 20 credits in biology and an overall GPA of 3.2. Students usually begin the program in their sophomore or junior year and conduct independent supervised research during their junior and senior years. A written paper and a seminar describing the results of their research are required in the senior year. Students who meet the eligibility criteria must apply and be accepted to the program. To enroll in the below Honors Program courses which can be used as biology elective courses. Interested students should contact the faculty member whose research interests are closest to those the student wishes to pursue and see [http://biology.fau.edu/academics/undergraduate/research.php](http://biology.fau.edu/academics/undergraduate/research.php) for more information. Denoted with (H).
### Required Courses (Biology Core):

- **BSC 1011 & L & D**
  - Biodiversity and Lab & Disc
  - 4 cr – as indicated on first page

- **BSC 1010 & L & D**
  - Biological Principles and Lab & Disc
  - 4 cr

- **CHM 2045 & L**
  - General Chemistry I and Lab
  - 4 cr – as indicated on first page

- **CHM 2046 & L**
  - General Chemistry II and Lab
  - 4 cr (Requires a “C” or better)

- **CHM 2210 & D**
  - Organic Chemistry I
  - 3 cr (Requires a “C” or better)

- **CHM 2211**
  - Organic Chemistry II
  - 3 cr (Requires a “C” or better)

- **CHM 221L**
  - Organic Chemistry II Lab
  - 2 cr (Requires a “C” or better)

- **BCH 3033**
  - Biochemistry I

- **MAC 2241**
  - Life Science Calculus
  - 4 cr

- **MAC 2311**
  - Calculus w/Analytic Geometry
  - 4 cr

- **PHY 2053**
  - College Physics I
  - 4 cr - Prerequisite of a “C” in one of these courses: MAC 1114/1147/2233/2311

- **PHY 2048L**
  - General Physics I Lab
  - 1 cr

- **PHY 2048**
  - General Physics I
  - 4 cr - Prerequisite of a “C” in MAC 2311 per University catalog

- **PHY 2049L**
  - General Physics II Lab
  - 1 cr

- **PHY 2049**
  - General Physics II
  - 4 cr

- **STA 3173**
  - Introduction to Biostatistics
  - 3 cr - prerequisite: MAC 2233 per University catalog

- **PSY 3234**
  - Exp. Design & Stat. Inference
  - 3 cr - prerequisite: PSY 1012 per University catalog

- **PCB 3063**
  - Genetics
  - 4 cr.

- **PCB 3023**
  - Cell Biology
  - 3 cr

- **MCB 3020 & Lab**
  - General Microbiology and lab
  - 4 cr

- **PCB 3703 & Lab**
  - Human Morphology and Function 1 and Lab
  - 4 cr.

- **PCB 4723 & Lab**
  - Comparative Animal Physiology and Lab
  - 4 cr.

- **PCB 3704 & Lab**
  - Human Morphology and Function 2 and Lab
  - 4 cr.

- **ZOO 4690 & Lab**
  - Vertebrate Structure Dev. & Evolution w/Lab
  - 5 cr.

### Biochemistry 2 or Biochemistry Lab
- **BSC 4022**

### Molecular Genetics of Aging
- **BSC 4033**

### Laboratory Methods in Biotechnology
- **BSC 4403L**

### Biology of Cancer
- **BSC 4806**

### Directed Independent Research in Biological Sciences ***
- **BSC 4910**
  - 0 - 3

### Special Topics
- **BSC 4930**
  - 1 - 3

### Comparative Animal Behavior
- **CBH 4024**

### Introduction to Drug Design
- **CHM 4273**
  - 3

### Structural Biochemistry
- **CHM 4350**
  - 3

### Directed Independent Study ***
- **CHM 4905**
  - 1 - 4

### Senior Seminar
- **CHM 4930**
  - 1

### Medical Bacteriology
- **MCB 4203**
  - 3

### Evolution
- **PCB 3674**
  - 3

### Principles of Ecology
- **PCB 4043**
  - 3

### Genetics Lab
- **PCB 4067L**
  - 3

### Immunology
- **PCB 4233**
  - 3

### Molecular Genetics
- **PCB 4522**
  - 3

### Genes and Development
- **PCB 4594**
  - 3

### Cellular Neuroscience and Disease
- **PCB 4842**
  - 3

### Practical Cell Neuroscience
- **PCB 4843C**
  - 0 - 3

### Directed Independent Study ***
- **PCB 4905**
  - 1 - 3

### Directed Independent Research ***
- **PCB 4915**
  - 1 - 3

### Directed Independent Research ***
- **PCB 4916**
  - 0 - 3

### Special Topics
- **PCB 4930**
  - 1 - 8

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### Credits Breakdown

<table>
<thead>
<tr>
<th>Courses</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Intellectual Foundations Program and Foreign Language</td>
<td>43-47</td>
</tr>
<tr>
<td>Biology Core</td>
<td>51-52</td>
</tr>
<tr>
<td>Biology Electives</td>
<td>12</td>
</tr>
<tr>
<td>Free Electives – (8 credits must be upper-division)</td>
<td>10-13</td>
</tr>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

*45 credits at upper division minimum*