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 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
____ BSC 1010 & L & D (Required)
  Biological Principles
  (4 cr. Incl. Lab & Dis)
____ CHM 2045 & L (Required)
  General Chemistry 1
  (4 cr. Incl. Lab) $

(Required: select one below)
____ 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)

(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 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 (REQUIRED or higher math)
____ MAC 2241 .....Life Science Calculus 1 (4 credits)
____ MAC 2312 .....Calculus with Analytic Geometry 2 (4 credits)
____ PHI 2102.......Logic

Note: A required course to take PSY 3234 per the University catalog.

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 (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:

- AN 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. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- ***** - 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: AN 2000, PHI 2010, WOH 2012, LIT 2010, LIT 2030, LIT 2040 and LIT 2070. See advisor for additional details.

#### (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.

#### 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.*

#### 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.

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

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University Advising Services
April 10, 2021

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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 for more information. Denoted with (H).
### MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

**B.A. DEGREE**

#### Required Courses (Biology Core): 40 - 41 credits:

- **BSC 1011 & L & D** Biodiversity and Lab & Discussion 4 cr – as indicated on first page
- **BSC 1010 & L & D** Biological Principles and Lab & Discussion 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
- **CHM 2210 & D** Organic Chemistry I 3 cr
- **CHM 2211** Organic Chemistry II 3 cr
- **PSC 2121** Physical Science 3 cr
- **PHY 2053** College Physics 4 cr
- **MAC 2233** Methods of Calculus 3 cr
- **STA 3173** Introduction to Biostatistics 3 cr (prerequisite: MAC 2233)
- **PSY 3234** Exp. Design & Stat. Inference 3 cr (prerequisite: PSY 1012)

Select four of the courses below (Additional courses selected from this category beyond the four courses may be applied toward the elective requirement.)

- **PCB 3063** Genetics 4 cr.
- **PCB 3023** Cell Biology 3 cr
- **PCB 4043** Principles of Ecology 3 cr
- **PCB 3674** Evolution 3 cr
- **One course in Physiology *** 4-5 cr

***Students who select the “One course in Physiology” option above may fulfill this option by choosing one of the below course/lab combinations

- **BOT 4503, 4503 L** Principles of Plant Physiology and Lab 4 cr.
- **PCB 4723, 4723L** Comparative Animal Physiology and Lab 4 cr.
- **PCB 3703, 3703L** Human Morphology and Function 1 and Lab 4 cr.
- **PCB 3704, 3704L** Human Morphology and Function 2 and Lab 4 cr.

#### Biology electives (select 12 credits Upper Division):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vascular Plant Anatomy &amp; Lab (BOT 3223 &amp; 3223L) 4 credits</td>
<td></td>
</tr>
<tr>
<td>Marine Botany &amp; Lab (BOT 4404 &amp; 4404L) 4 credits</td>
<td></td>
</tr>
<tr>
<td>Principles of Plant Physiology &amp; Lab (BOT 4503 4503L) 4 credits</td>
<td></td>
</tr>
<tr>
<td>Plant Biotechnology (BOT 4734C) 3 credits</td>
<td></td>
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<tr>
<td>Life of a Biologist (BSC 2844) 1 credit</td>
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</tr>
<tr>
<td>Conservation Biology (BSC 3052) 3 credits</td>
<td></td>
</tr>
<tr>
<td>Introduction to Biological Research (BSC 3453) 1 credit (H)</td>
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</tr>
<tr>
<td>Biological Research (BSC 3481) 2 credits (H)</td>
<td></td>
</tr>
<tr>
<td>Molecular Genetics of Aging (BSC 4022) 3 credits</td>
<td></td>
</tr>
<tr>
<td>Biotechnology Laboratory 1 (BSC 4403L) 2 credits</td>
<td></td>
</tr>
<tr>
<td>Biotechnology Laboratory 2 (BSC 4448L) 2 credits</td>
<td></td>
</tr>
<tr>
<td>Concepts in Bioinformatics (BSC 4434C) 3 credits</td>
<td></td>
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<tr>
<td>Biology of Cancer (BSC 4806) 3 credits</td>
<td></td>
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<tr>
<td>Directed Independent Study (BSC 4905) 1-3 credits</td>
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<tr>
<td>Directed Independent Research (BSC 4910) 0-3 credits</td>
<td></td>
</tr>
<tr>
<td>Honors Research (BSC 4917) 3 credits (H)</td>
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<tr>
<td>Honors Thesis (BSC 4918) 3 credits (H)</td>
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<tr>
<td>Special Topics (BSC 4930) 1-3 credits</td>
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<tr>
<td>Comparative Animal Behavior (CBH 4024) 3 credits</td>
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<tr>
<td>Critical Thinking in Environmental Science (EV 4021) 3 credits</td>
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</tr>
<tr>
<td>General Microbiology &amp; Lab (MCB 3020 &amp; 3020L) 4 credits</td>
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</tr>
<tr>
<td>Medical Bacteriology (MCB 4203) 3 credits</td>
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</tr>
</tbody>
</table>

**31 – 35 credits** Intellectual Foundations Program and Foreign Language  
**45 – 47 credits** Biology Core  
**12 credits** Biology Electives  
**28 – 30 credits** Free Electives – (15 – 16 credits must be upper-division)  
**120 CREDITS** TOTAL (45 credits at upper division minimum)
Required Courses (Biology Core): 47 - 48 credits

- 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 - (Chemistry courses require a “C” or better)
- 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)

OR {  
- MAC 2233 Methods of Calculus 3 cr
- MAC 2311 Calculus w/Analytic Geometry 4 cr

OR {  
- PHY 2053 College Physics I 4 cr - Prerequisite of a “C” in one of these courses: MAC 1114/1147
- PHY 2048L General Physics I Lab 1 cr

OR {  
- PHY 2048 General Physics I 4 cr - Prerequisite of a “C” in MAC 2111 per University catalog
- PHY 2048L General Physics I Lab 1 cr

OR {  
- PHY 2054 College Physics II 4 cr
- PHY 2049L General Physics II Lab 1 cr

OR {  
- PHY 2049 General Physics II 4 cr
- PHY 2049L General Physics II Lab 1 cr

OR {  
- STA 3173 Introduction to Biostatistics 3 cr - prerequisite: MAC 2233 per University catalog
- STA 3173L Exp. Design & Stat. Inference 3 cr - prerequisite: PSY 1012 per University catalog

Select four of the courses below (Additional courses selected from this category beyond the four courses may be applied toward the elective requirement.)

- PCB 3063 Genetics 4 cr.
- PCB 3023 Cell Biology 3 cr
- PCB 4043 Principles of Ecology 3 cr
- PCB 3674 Evolution 3 cr

One course in Physiology *** 4-5 cr

***Students who select the “One course in Physiology” option above may fulfill this option by choosing one of the below course/lab combinations

- BOT 4503, 4503 L Principles of Plant Physiology and Lab 4 cr.
- PCB 4723, 4723L Comparative Animal Physiology and Lab 4 cr.
- ZOO 4690, 4690L Vertebrate Structure Dev. & Evolution w/Lab 5 cr.
- PCB 3703, 3703L Human Morphology and Function 1 and Lab 4 cr.
- PCB 3704, 3704L Human Morphology and Function 2 and Lab 4 cr.

Biology electives (select 18 credits Upper Division): Please note you must have course prerequisite(s) completed - (H) – Honors Research Program Courses

<table>
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<tr>
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<tr>
<td>Biochemistry I (BCH 3033)</td>
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<tr>
<td>Biochemistry II (BCH 3034)</td>
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<tr>
<td>Biochemistry Lab (BCH 3103L)</td>
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<td>Critical Thinking in Environmental Science (EVS 4021)</td>
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<td>52 – 53</td>
<td>Biology Core</td>
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