### FOUNDATIONS OF SCIENCE & THE NATURAL WORLD

(6 credit hours required - One of the courses must have a lab)

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
</tr>
</thead>
</table>
| Biology Department | For Non-Science Majors —
  — BSC 1005 & L
  — Life Science (3 cr. incl. Lab)
  — BSC 2085 & L
  — Anatomy & Physiology 1 (4 cr. incl. Lab) * |
| Chemistry Department | For Non-Science Majors —
  — CHM 1020C
  — Contemporary Chemical Issues |
| Geosciences Department | For Science Majors —
  — ESC 2000 Blue Planet (online)
  — EVR 1001
  — Env. Science and Sustainability |
| Physics Department | For Science Majors —
  — AST 2002
  — Intro. to Astronomy (P/F) |
| Biology Department (see note) | For Science Majors —
  — BSC 1010 & L & D
  — Biological Principles (4 cr. Incl. Lab & Dis) |
| Chemistry Department (see note) | — CHM 2045 & L
  — General Chemistry 1 (4 cr. Incl. Lab) *
| Physics Department | — PHY 2048 & L (REQUIRED)
  — General Physics 1 (5 credits incl. Lab) ** |

**Must select either:**
- BSC 1010 & BSC 1011 (with labs)
- CHM 2045 & CHM 2046 (with labs)

### FOUNDATIONS OF SCIENCE & THE NATURAL WORLD

(6 credit hours required)

<table>
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<tr>
<th>Group A</th>
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</tr>
</thead>
</table>
| Biology Department | History Department
  — PSC 2121 ……. Physical Science
  — MET 2010 & D
  — History of Earth and Life
  — GLY 2100
  — History of Earth and Life
  — MET 2010 & D
  — Weather and Climate |
| Physics Department | Engineering Dean Department
  — ECP 2002 ........ Contemporary Economic Issues
  — AMH 2010 ...... United States History to 1877 (P/F) |
| Biology Department (see note) | Economics Department
  — BSC 1010 & L & D
  — Biological Principles (4 cr. incl. Lab) |
| Chemistry Department (see note) | — GLY 2010C
  — Physical Geol. (4 cr. incl. Lab) |
| Physics Department | — GLY 2100
  — History of Earth and Life |
| **Must select either:** | — MET 2010 & D
  — Weather and Climate |

**For Science Majors —**
- BSC 1011 & L & D
- Biodiversity (4 cr. incl Lab & Dis)

**For Non-Science Majors —**
- ANT 2511 & L
- Cultural Difference in a Globalized Society
- HIS 2050+………..Writing History

### FOUNDATIONS OF WRITTEN COMMUNICATION

(6 credit hours required – Writing Across the Curriculum - WAC)

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
</tr>
</thead>
</table>
| ENC 1102………College Writing I (Required) | English Department
  — ENC 1930+…..University Honors Seminar in Writing (Permit Only) |
| History Department | — ENC 1939+…..Special Topic: College Writing |
| **THE FOLLOWING COURSES BELOW MAY BE SUBSTITUTED FOR ENC 1102:** | Anthropology Department
  — ENC 1471+…..Honors Composition for Science |
| Biology Department (see note) | History Department
  — ENC 1930+…..University Honors Seminar in Writing (Permit Only) |
| **FOUNDATION OF SOCIETY & HUMAN BEHAVIOR** | — ENC 1939+…..Special Topic: College Writing |
| Economics Department | — ENC 1930+…..University Honors Seminar in Writing (Permit Only) |
| **6 credit hours required – Grade of “C” or higher is required** | — ENC 1939+…..Special Topic: College Writing |
| 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. | — ENC 1930+…..University Honors Seminar in Writing (Permit Only) |

**Note:**
- Students must take at least one course with the prefix MAC or MGF.
- 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.

**PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE**

- **Group A**
  — MGF 1106……. Math for Liberal Arts 1 (not for this major)
  — MGF 1107……. Math for Liberal Arts 2 (not for this major)
  — MAC 1105…….. College Algebra
  — STA 2023 …….. Introductory Statistics (not for this major)
  — MAC 2311------- Calculus with Analytic Geometry 1 (4 credits) (REQUIRED)
  — or any mathematics course for which one of the above courses is the direct prerequisite

- **Group B**
  — MAC 1140…….. Precalculus Algebra
  — MAC 1114…….. Trigonometry
  — MAC 1147…….. Precalculus Algebra & Trigonometry (5 credits)
  — MAC 2233…….. Methods of Calculus
  — MAC 2312…….. Calculus with Analytic Geometry 2 (4 credits) (REQUIRED)

**PHILOSOPHY DEPARTMENT**

- PHI 2102……….. Logic (not for this major)

- **FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR**

- **FOUNDATIONS OF SCIENCE & THE NATURAL WORLD**

- **FOUNDATIONS OF WRITTEN COMMUNICATION**

- **FOUNDATIONS OF MATHEMATICS & QUANTITATIVE REASONING**

- **HISTORY DEPARTMENT**

- **PHILOSOPHY DEPARTMENT**

- **SOCIOLOGY DEPARTMENT**

- **EXCEPTIONAL STUDENT EDUCATION DEPARTMENT**

- **GEOSCIENCES DEPARTMENT**

- **PUBLIC ADMINISTRATION DEPARTMENT**

- **SOCIOLGY DEPARTMENT**

- **URBAN & REGIONAL PLANNING DEPARTMENT**
**Students Assume Responsibility for Meeting All Graduation Requirements**

Course selections should be made in consultation with an academic advisor.

### Foundations in Global Citizenship

(6 credit hours required)

- Student must choose two (2) courses from among the following:
  - **Anthropology Department**
    - ANT 2410 ...............Culture and Society
  - **Curriculum, Culture & Education Department**
    - EDF 2854 ...............Educated Citizen in Global Context
  - **Geosciences Department**
    - GEA 2000 ..............World Geography
  - **Political Science Department**
    - INR 2002.............Introduction to World Politics
  - **Languages, Linguistics, & Comparative Literature Department**
    - LAS 2000 ...............Intro to Caribbean & Latin American Studies
    - LIN 2607.............Global Perspectives on Language (online course)
  - **Sociology Department**
    - SYP 2450 .............Global Society
  - **Social Work Department**
    - SOW 1005 ...........Global Perspectives of Social Services
  - **History Department**
    - WOH 2012 & D.......History of Civilization 1 (WAC) ++
    - WOH 2022...........History of Civilization 2

### 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**
    - **Visual Art & Art History Department**
      - ARH 2000 .............Art Appreciation (P/F)
    - **Music Department**
      - MUL 2100 .............Music Appreciation
    - **Philosophy Department**
      - PHI 2010 & D .........Introduction to Philosophy (WAC) ++
    - **Theatre & Dance Department**
      - THE 2000 .............Theatre Appreciation
  - **Group B**
    - **Architecture Department**
      - ARC 2208 .............Culture & Architecture
    - **Theatre & Dance Department**
      - DAN 2100 .............Appreciation of Dance
    - **School of Communication & Multimedia Studies**
      - FIL 2000 & D .........Film Appreciation
    - **Languages, Linguistics, & Comparative Literature Department**
      - LIT 2100 .............Introduction to World Literature
    - **English Department**
      - 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) ++

### 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.
- *** - Nursing majors are required to take this course in their first semester.
- **** - MAC 2311 is a prerequisite for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- ***** - MAC 1105 and MAC 1114 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).

**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 and LIT 2070. See advisor for additional details.

### 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

**http://myfau.fau.edu**
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/SPAN 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.

- 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.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>28 - 32</td>
<td>Intellectual Foundations Program &amp; Foreign Language (Excluding Math &amp; Science)</td>
</tr>
<tr>
<td>12</td>
<td>Mathematics – Calculus (B.A. and B.S. Degree)</td>
</tr>
<tr>
<td>25 – 44</td>
<td>Physics Major (44 credits for B.S. and 25 credits for B.A)</td>
</tr>
<tr>
<td>32 – 55</td>
<td>Free Electives</td>
</tr>
<tr>
<td>120</td>
<td>TOTAL</td>
</tr>
</tbody>
</table>

NOTE: See the 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 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;
4. A grade of “C” or better is required in all the physics, mathematics, and chemistry courses taken as part of the course requirements for a degree within the department.
MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

PHYSICS Core

Introductory Physics Courses - (9 credits) – REQUIRED for both B.A. and B.S. Degree
  PHY 2049 & L General Physics II & Lab – PHY 2048 with lab is a prerequisite (5 credits)
  PHZ 2106 General Physics III – MAC 2313 and PHY 2049 with lab are prerequisites (4 credits)

BACHELOR OF SCIENCE (BS) DEGREE (44 credits total, 13 courses)

  Additional Mathematics Introductory Course (3 credits)
  MAS 2103 Matrix Theory (3 credits)

  Bachelor of Science Additional Intermediate Core Requirements (41 credits)
  PHY 3101C Survey of Modern Physics – PHY 2049 & lab & MAC 2313 are prereqs (5 credits)
  PHY 3221 Classical Mechanics – PHY 2048 with lab & MAC 2313 are prerequisites (4 credits)
  PHY 3323 Electromagnetism I – PHY 2049 with labs & MAC 2313 are prerequisites (4 credits)
  PHY 4324 Electromagnetism II – PHY 3323 is a prerequisite (4 credits)
  PHY 3503 Thermodynamics – MAC 2313 and PHY 2048 with lab is a prerequisite (4 credits)
  PHY 4523 Statistical Physics – PHY 3101C is a prerequisite (3 credits)
  PHY 4604 Quantum Mechanics I – PHY 3101C prereq and PHZ 3113 a coreq. (4 credits)
  PHY 4605 Quantum Mechanics II – PHY 4604 is a prerequisite (3 credits)
  PHY 3722C Physical Electronics – PHY 2049 is a prerequisite (4 credits)
  PHY 4811L Undergraduate Laboratory – PHY 3101C is a prerequisite (2 credits)
  PHZ 3113 Math. Methods for Physics – PHZ 2106 a prereq or instructor permission (3 credits)

BACHELOR OF ARTS (BA) DEGREE (25 credits total, 6 courses)

  Additional Mathematics Introductory Course (3 credits)
  MAS 2103 Matrix Theory (3 credits)

  Bachelor of Arts Additional Intermediate Core Requirements (22 credits)
  PHY 3101C Survey of Modern Physics – PHY 2049 & lab & MAC 2313 are prereqs (5 credits)
  PHY 3221 Classical Mechanics – PHY 2048 with lab & MAC 2313 are prerequisites (4 credits)
  PHY 3323 Electromagnetism I – PHY 2049 with labs & MAC 2313 are prerequisites (4 credits)
  PHY 4604 Quantum Mechanics I – PHY 3101C prereq and PHZ 3113 a coreq. (4 credits)

  Choose at least three (3) credits from the following list:
  PHY 3503 Thermodynamics – MAC 2313 and PHY 2048 with lab is a prerequisite (4 credits)
  PHY 4523 Statistical Physics – PHY 3101C is a prerequisite (3 credits)
  PHY 3722C Physical Electronics – PHY 2049 is a prerequisite (4 credits)

FREE ELECTIVES (32 – 55 credits)
Free electives are courses in any college, any department, including Physics, needed to meet the 120 credits required for graduation.

Optional Pre-professional Track (23 credits) - Required Courses

  BSC 1011 & L Biodiversity with lab (3 + 1 = 4 credits)
  BSC 1010 & L Biological Principles with lab (3 + 1 = 4 credits)
  CHM 2210 & D Organic Chemistry I with discussion (3 credits) – CHM 2045 & CHM 2046 with labs are prerequisites
  CHM 2211 Organic Chemistry II (3 credits)
  CHM 2211L Organic Chemistry II Lab (2 credits)
  PCB 3063 Genetics (4 credits) – BSC 1011 and BSC 1010 with labs are prerequisites
  BCH 3033 Biochemistry I (3 credits) – 8 credits of organic chemistry is the prerequisite