SECONDARY MATHEMATICS MAJOR (2019-2020)

FOUNDATION 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.
PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE

**Group A**
- MGF 1106..... Math for Liberal Arts 1
- MGF 1107..... Math for Liberal Arts 2
- MAC 1105..... College Algebra
- STA 2023 ..... Introductory Statistics
- 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 2210..... Intro Calculus w/Applications (4 credits) (Permit Only)
- MAC 2233...... Methods of Calculus
- MAC 2312...... Calculus with Analytic Geometry 2 (4 credits) (REQUIRED)

Philosophy Department
- PHI 2102 ....... Logic

FOUNDATION 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.
PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE

**Group A**
- MGF 1106..... Math for Liberal Arts 1
- MGF 1107..... Math for Liberal Arts 2
- MAC 1105..... College Algebra
- STA 2023 ..... Introductory Statistics
- 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 2210..... Intro Calculus w/Applications (4 credits) (Permit Only)
- MAC 2233...... Methods of Calculus
- MAC 2312...... Calculus with Analytic Geometry 2 (4 credits) (REQUIRED)

Philosophy Department
- PHI 2102 ....... Logic

FOUNDATION 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**
- For Non-Science Majors----
  - Biology Department
    - BSC 1005 & L (RECOMMENDED)
    - Life Science (3 cr. incl. Lab)
  - Chemistry Department
    - CHM 1020C
    - Contemporary Chemical Issues
  - Geosciences Department
    - ESC 2000
    - The Blue Planet (online)
    - EVR 1001
    - Env. Science and Sustainability
  - Physics Department
    - AST 2002
    - Intro. to Astronomy (P/F)

**Group B**
- For Non-Science Majors----
  - Anthropology Department
    - ANT 2511 & L
    - Intro to Biological Anthropology (4 cr. Incl. Lab)
  - Chemistry Department
    - CHM 2083
    - Chemistry in Modern Life (P/F)
  - Engineering Dean Department
    - ETG 2831
    - Nature: Inter. of Sci., Eng., & the Humanities
  - Geosciences Department
    - GLY 2010C
    - Physical Geol. (4 cr. incl. Lab)
    - GLY2100
    - History of Earth and Life
    - MET 2010 & D
    - Weather and Climate
  - Physics Department
    - PSC 2121 (RECOMMENDED)
    - Physical Science

(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 IN GLOBAL CITIZENSHIP
(6 credit hours required)
Student must choose two (2) courses from among the following:

<table>
<thead>
<tr>
<th>Department</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology Department</td>
<td>___ ANT 2410 ..................................Culture and Society</td>
</tr>
<tr>
<td>Curriculum, Culture &amp; Education Department</td>
<td>___ EDF 2854 ..................................Educated Citizen in Global Context</td>
</tr>
<tr>
<td>Geosciences Department</td>
<td>___ GEA 2000 ..................................World Geography <em>(RECOMMENDED)</em></td>
</tr>
<tr>
<td>Political Science Department</td>
<td>___ INR 2002 ..................................Introduction to World Politics</td>
</tr>
<tr>
<td>Languages, Linguistics, &amp; Comparative Literature Department</td>
<td>___ LAS 2000 ..................................Intro to Caribbean &amp; Latin American Studies</td>
</tr>
<tr>
<td>Sociology Department</td>
<td>___ SYP 2450 ..................................Global Society</td>
</tr>
<tr>
<td>Social Work Department</td>
<td>___ SOW 1005 ..................................Global Perspectives of Social Services</td>
</tr>
<tr>
<td>History Department</td>
<td>___ WOH 2012 &amp; D ................................History of Civilization 1 *(WAC) ++ <em>(RECOMMENDED)</em></td>
</tr>
<tr>
<td></td>
<td>___ WOH 2022 ..................................History of Civilization 2</td>
</tr>
</tbody>
</table>

**STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS**

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

---

### 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 2010 .................. 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 2001 ..................Interpretation of Fiction *(WAC) ++*
  - ___ LIT 2020 ..................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:**

- [https://myfau.fau.edu](https://myfau.fau.edu)
- 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
FOREIGN LANGUAGE (0 - 8 credits, 1 or more courses in the same language) - **REQUIRED FOR BA MAJOR ONLY**

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.

All students must meet the Admissions Foreign Language requirement.

**NOTE:** Native Speakers of a foreign language must consult the Languages, Linguistics, & 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.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>Intellectual Foundations Program</td>
</tr>
<tr>
<td>09</td>
<td>Free Electives</td>
</tr>
<tr>
<td>09</td>
<td>Lower-Division College Requirements</td>
</tr>
<tr>
<td>24</td>
<td>Professional Education</td>
</tr>
<tr>
<td>40</td>
<td>Major Content</td>
</tr>
<tr>
<td><strong>120 CREDITS</strong></td>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

For additional information, please contact the College of Education Office for Academic and Student Services:
College of Education, Room 230
(561) 297 – 3570 or [http://www.coe.fau.edu](http://www.coe.fau.edu)

**Note:** To be admitted to a Teacher Education program, students must do the following:
1. Have a minimum **GPA of 2.5 on a 4.0 scale** on the lower division undergraduate general education component.
2. Submit passing scores on all sections of the General Knowledge (GK) test to the College of Education [www.fl.nesinc.com](http://www.fl.nesinc.com)
3. Meet the general university requirements for admission.
4. Complete FAU’s Intellectual Foundations Program or an AA Degree from a Florida State University or College.
5. Be interviewed and recommended for admission.
6. Be programmed by an assigned advisor.
7. Be approved for admission by the College of Education.
MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

FREE ELECTIVES (9 credits)
Courses in any college, any department, including Education, needed to meet the 120 credits required for graduation.

LOWER DIVISION COLLEGE REQUIREMENTS (9 credits):
- EDF 2005 Intro to the Teaching Profession (15 observation hours) (3 credits)
- EDF 2085 Intro to Diversity for Educators (15 observation hours) (3 credits)
- EME 2040 Introduction to Technology for Educators (3 credits)

PROFESSIONAL EDUCATION (24 credits)
- EDF 3210 Applied Learning Theory (3 credits)
- EDF 3430 Educational Measurement and Evaluation (3 credits)
- TSL 4324 ESOL Strategies for Content Area Teachers (3 credits)
- MAE 4360 Mathematics: Middle and Secondary School (3 credits)
- RED 4335 Reading in the Content Areas (3 credits)
- ESE 3940 Secondary School Effective Instruct (3 credits, 90 - hours plus security) **
- MAE 4945 Student Teaching: Mathematics 6-12 (6 – 12 credits) (Taken in your Final Semester)

MATHEMATICS MAJOR CONTENT (40 credits)
- MAC 2313 Calculus with Analytic Geometry III (4 credits)
- MAD 2104 Discrete Mathematics (3 credits)
- MAS 2103 Matrix Theory (3 credits)
- STA 4442 Probability and Statistics I (3 credits)
- MAA 4200 Modern Analysis (3 credits)
- MAS 4301 Modern Algebra (3 credits)
- MTG 3212 Survey of Geometry (3 credits)
- MAD 2502 Intro to Computational Math or computer programming course (3 credits)

Electives Upper Division Mathematical Sciences (15 credits)
*See college guide for list of approval electives

** Must be programmed and taken the fall/spring semester prior to student teaching.

IMPORTANT NOTES:

Students registered in Education courses must purchase “Live Text” which is an on-line tool that will be used to track individual student competency mastery (CAS) in initial certification programs. For detailed information, please visit:
http://www.coe.fau.edu/livetext/default.htm

Field experience is a required component of some Education courses. All students requiring a field experience placement must have evidence of current security clearance. For detailed information, please visit:
http://www.coe.fau.edu/students/oass/fieldexperience/default.aspx