SECONDARY MATHEMATICS MAJOR (2021 – 2022)

FLORIDA ATLANTIC UNIVERSITY
– INTELLECTUAL FOUNDATION PROGRAM 2020 - 2021

All courses are three (3) credits unless otherwise indicated. Course selections should be made in consultation with an academic advisor.

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**

_____ For Non-Science Majors-----
____ AST 2002
   Intro. to Astronomy (P/F)
____ BSC 1005 & L RECOMMENDED
   Life Science (3 cr. w/Lab)
____ CHM 1020C
   Contemp. Chemical Issues
____ ESC 2000
   The Blue Planet (online)
____ EVR 1001
   Env. Sci. and Sustainability

**Group B**

_____ For Non-Science Majors-----
____ ANT 2511 & L
   Intro to Biological Anthropology (4 cr. w/ Lab)
____ ETG 2831
   Nature: Inter. of Sci., Eng., & the Humanities
____ GIL 2010C
   Physical Geol. (4 cr. w/Lab)
____ GIL2100
   History of Earth and Life
____ IDS 2382
   Human Mission to Mars
____ MET 2010
   Weather, Climate & Climate Change
____ PSC 2121 RECOMMENDED
   Physical Science

(For Non-College Engineering & Computer Science majors)

---For Non-Science Majors-----
____ ANT 2000 & D ....... Introduction to Anthropology (WAC)
____ ECO 2013 .............. Macroeconomic Principles §
____ POS 2041 ............... Government of the United States
____ PSY 1012 ............... Introduction to Psychology
____ SYG 2010 ............... Introduction to Language
____ URP 2051 ............... Designing the City

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**

____ 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**

____ COP 1034C .... Computer Programming & Data Literacy for Everyone
____ MAC 1147 ...... Pre-Calculus 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) (REQUIRED)
____ PHI 2102 ......... Logic

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)
____ AMH 2010 & D ...... United States History to 1877 (P/F)
____ ANT 2000 & D ...... Introduction to Anthropology (WAC)
____ 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 1000 ............... Sociology
____ URP 2051 ............... Designing the City

---For Non-Science Majors-----
____ 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 1000 ............... Sociology
____ URP 2051 ............... Designing the City

(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:

____ ANT 2410 .............. Culture and Society
____ EDF 2854 ............ Educated Citizen in Global Context
____ GEA 2000 .......... World Geography RECOMMENDED
____ 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) ++
                      RECOMMENDED
____ WOH 2022 .......... History of Civilization 2
____ WST 2351 .......... Gender and Climate Change

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.
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. Teacher Preparation majors will also complete a WAC course through the required EDF 2085. We strongly recommend the final WAC course be one of the following: 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.

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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

Students should consult with an academic advisor to select courses and to prepare to meet the graduation requirements.
FOREIGN LANGUAGE (0 - 8 credits, 1 or more courses in the same language) - **REQUIRED FOR BS 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.

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

NON-MAJOR/FREE ELECTIVES (09 credits minimum)
Courses in any college, any department, including Education, needed to meet the 120 credits required for graduation.
Foreign language will count as an elective if taken for the BA major.

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) (WAC)
- 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 Instruction (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: https://www.fau.edu/education/students/livetext/students/

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.fau.edu/education/students/oass/fieldexperience/