## SECONDARY MATHEMATICS MAJOR (2016-2017)

### 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:
- English Department
  - ENC 1930 University Honors Seminar in Writing (Permit Only)
  - ENC 2452 Honors Composition for Science
- Anthropology Department
  - ANT 1471 Cultural Difference in a Globalized Society
- History Department
  - HIS 2050 Writing History

### Nursing Department (Department Permission Required)
- NSP 1195 Being Cared For: Reflections from Other Side of Bed

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### 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**
- Biology Department
  - BSC 1005 Life Science (3 cr. incl. Lab) (RECOMMENDED)
  - BSC 1010 & L (RECOMMENDED)
- Chemistry Department
  - CHM 1020 Contemporary Chemical Issues
  - CHM 1020C
- Geosciences Department
  - ESC 2000 Blue Planet (online)
  - EVR 1001 Env. Science and Sustainability
- Physics Department
  - AST 2002 Intro. to Astronomy (P/F)

**Group B**
- Biology Department
  - BSC 1011 & L & D
  - BSC 2085 & L
- Chemistry Department
  - CHM 2083
- Geosciences Department
  - GLY 2010C Physical Geol. (4 cr. incl. Lab)
  - GLY 2100 History of Earth and Life
  - GLY 2101 History of Earth and Life (MET 2010 & D)
- Physics Department
  - PSC 2121 Physical Science (RECOMMENDED)

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### 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**
- College for Education
  - Math for Liberal Arts 1
  - Math for Liberal Arts 2
  - College Algebra
  - Introductory Statistics
  - 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**
- Precalculus Algebra
  - Trigonometry
  - Precalculus Algebra & Trigonometry (5 credits)
  - Methods of Calculus
  - Calculus with Analytic Geometry 2 (4 credits) (REQUIRED)

### Philosophy Department
- PHI 2102 Logic

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

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### 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**
- History Department
  - United States History Since 1877 (P/F) (RECOMMENDED)
- Anthropology Department
  - Introduction to Anthropology
- Economics Department
  - Macroeconomic Principles
  - Microeconomic Principles
- Political Science Department
  - Government of the United States
- Psychology Department
  - Introduction to Psychology
- Sociology Department
  - Sociological Perspectives (RECOMMENDED)

**Group B**
- History Department
  - United States History to 1877 (P/F) (RECOMMENDED)
- Economics Department
  - Microeconomic Principles
  - Contemporary Economic Issues
- Exceptional Student Education Department
  - Disability and Society
- Geosciences Department
  - Environment and Society
- Public Administration Department
  - Changing Environment of Soc., Bus., & Gov’t
- Sociology Department
  - Race, Class, Gender, and Sexuality
  - Social Problems
- Urban & Regional Planning Department
  - Designing the City

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**Note:** Students must take at least one course with the prefix MAC or MGF.
### Foundations in Global Citizenship

(6 credit hours required)

Students 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 (RECOMMENDED)

**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) ++ (RECOMMENDED)
- WOH 2022 ........................... History of Civilization 2

### 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.**

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### Foundations of Humanities

(6 credit hours required)

Students 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 2010 ........................... Interpretation of Fiction (WAC) ++
- Lit 2030 ........................... Interpretation of Poetry (WAC) ++
- Lit 2040 ........................... Interpretation of Drama (WAC) ++
- Lit 2070 ........................... Interpretation of Creative Nonfiction (WAC) ++

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**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) Writing across the curriculum course.

**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 number of credits 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.

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**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.

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

**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
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.

| 38 credits | Intellectual Foundations Program |
| 09 credits | Free Electives |
| 09 credits | Lower-Division College Requirements |
| 24 credits | Professional Education |
| 40 credits | Major Content |
| **120 CREDITS** | **TOTAL** |

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