Florida Atlantic University - Secondary Education - Mathematics 2024-2025
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.

Communication

(Group A)

ENC 1101	College Writing I **(Required)**

(Group B)

ENC 1102	College Writing II **+**
ENC 1930	University Honors Seminar in Writing **+ §**
ENC 1939	Special Topic: College Writing **+**
HIS 2050	Writing History **+**

Humanities

(Group A)

ARH 2000	Art Appreciation
HUM 2020	Honors Introduction to Humanities **§**
LIT 2000	Honors Introduction to Literature **§**
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
FIL 2000	Honors Film Appreciation **§**
JST 2452	Global Jewish Communities
LAS 2000	Intro to Caribbean & Latin American Studies
LIN 2607	Global Perspectives on Language
LIT 2010	Interpretation of Fiction **(WAC) ++**
LIT 2030	Interpretation of Poetry **(WAC) ++**
LIT 2040	Interpretation of Drama **(WAC) ++**
LIT 2070	Inter of Creative Nonfiction **(WAC) ++**
LIT 2100	Introduction to World Literature
LIT 2931	Special Topics in Lit **(WAC) ++**
MUH 2121	Music in Global Society
SPC 2608	Public Speaking
WOH 2012 & D	History of Civilization 1 **(WAC) ++**
WOH 2022	History of Civilization 2

Mathematics

(Group A)

MAC 1105	College Algebra
MAC 2311	Calc w/Analytic Geometry 1 (4 cr.) *****(Required)**

Or any mathematics course for which one of the above general education core course options in Mathematics is the direct prereq.

(Group B)

MAC 1147	Precalculus Algebra & Trigonometry (4 cr.)
MAC 2210	Intro Calculus w/Applications (4 cr.) (Permit Only)
MAC 2233	Methods of Calculus
MAC 2241	Life Science Calculus 1
MAC 2312	Calc w/Analytic Geometry 2 (4 cr.) *****(Required)**

Additional Enrichment (6 credits) Choose 6 credits from Humanities, Social Science, or Natural Science

(1) _____   (2) _____

Natural Science

(Group A)

AST 2002	Introduction to Astronomy
BSC 1005 & L	Life Science (3 cr. w/Lab) **(Recommended)**
CHM 1020C	Contemporary Chemical Issues
ESC 2000	The Blue Planet **(online)**
EVR 1001	Environmental Science and Sustainability
GLY 2010C & D	Phys. Geol/Evolution of the Earth (4 cr. w/lab)
OCE 2001	Introduction to Oceanography **#**

Or any course in the Nat Sci. for which one of the above general education core course options in Natural Science is the direct prerequisite.
** NOTE: at least one science course must have a lab from Group A or B **

(Group B)

ANT 2511 & L	Intro to Biological Anthropology (4 cr. w/ Lab)
ETG 2831	Nature: Inter. of Sci., Eng., & the Humanities
GLY 2100	History of Earth and Life
IDS 2382	Human Mission to Mars
MET 2010	Weather, Climate & Climate Change
PSC 2121	Physical Science **(Recommended)**

Social Sciences

(Group A)

AMH 2010 & D	United States History to 1877 **◊**
AMH 2020 & D	United States History Since 1877 **◊**
ANT 2000 & D	Introduction to Anthropology **(WAC)**
ECO 2013	Macroeconomic Principles
POS 2041	Government of the United States **◊**
PSY 1012	Introduction to Psychology

(Group B)

ANT 2410	Culture and Society
CCJ 2002	Law, Crime & the Criminal Justice System
DIG 2202	Digital Culture
ECO 2023	Microeconomic Principles
ECP 2002	Contemporary Economic Issues
EDF 2854	Educated Citizen in Global Context
EEX 2091	Disability and Society
EME 2620	Digital Literacy in a Globally Connected World
EVR 1110	Climate Change: The Human Dimensions
EVR 2017	Environment and Society
GEA 2000	World Geography
INR 2002	Introduction to World Politics
LIN 2001	Introduction to Language **(online)**
MAR 2142	Culture, Consumers, & the Global Mktplace
PAD 2081	Risk Resilience and Rising Seas
PAD 2258	Changing Env. of Soc., Bus., & Gov't
POT 2000	Global Political Theory
SOW 1005	Global Perspectives of Social Services
SYG 1000	Sociological Perspectives
SYG 2010	Social Problems
SYP 2450	Global Society
URP 2051	Designing the City

Please review page 2 for general information regarding the major.

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LEGEND		
	+	ENC 1101 is a prerequisite
	++	Two Communication courses are required before taking this course.
	§	Reserved for Wilkes Honors College & University Honors Program students only.
	◊	Please visit FAU's website regarding the Civic Literacy Requirements. (https://www.fau.edu/ugstudies/civic-literacy-requirement/)
	‡	Co-requisite of MAC 1105 or a prerequisite of CHM 1025.
	*	MAC 2311 is a prerequisite for this course.
	**	MAC 2233 is a prerequisite for this course. If a lab is needed, then take General Physics 1 lab (PHY 2048L).
	#	The following courses are not offered at FAU but will fulfill this requirement if transferred from another school.
	WAC	Writing Across the Curriculum course – minimum grade of "C" required. Students must take four WAC courses

FOREIGN LANGUAGE (4 - 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/FRE/GER/HBR/ITA/JPN/LAT/SPN 1121) or a higher-level course. Proficiency in 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 General Education (Gen Ed) courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

CREDIT SUMMARY

30	cr	General Education (not including science courses)
9	cr	Free Electives (Foreign Language taken for BS count as electives)
9	cr	Lower-Division College Requirements
24	cr	Professional Education
48	cr	Major Content
120	**cr**	**TOTAL**

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
3. Meet the general university requirements for admission.
4. Complete General Education Requirements 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.

For additional information, please contact the College of Education Office for Academic and Student Services:

College of Education, Room 230

(561) 297-3570 or https://www.fau.edu/education/students/oass/

IMPORTANT NOTES:

Students registered in Education courses must purchase "Live Text" which is an online 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: https://www.fau.edu/education/students/oass/fieldexperience/

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MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

NON-MAJOR/FREE ELECTIVES (9 credits)

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 BS 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	Intro 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)
SCE 4360	Science: Middle and Secondary (3 credits)
RED 4335	Reading in the Content Areas (3 credits)
ESE 3940	Secondary School Effective Instruct (3 credits, 90 - hours plus security)

The above course must be programmed and taken fall/spring semester prior to student teaching.

SCE 4944	Student Teaching: Mathematics 6-12 (6-12 credits) **(Taken in your Final Semester)**

MATHEMATICS MAJOR CONTENT (48 credits)

MAC 2311	Calculus with Analytic Geometry I (4 credits)
MAC 2312	Calculus with Analytic Geometry II (4 credits)
MAC 2313	Calculus with Analytic Geometry III (4 credits)
MAD 2104	Discrete Mathematics (3 credits)
MAS 2103	Matrix Theory (3 credits)
MHF 3203	Intro to Advanced Mathematics (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 Computional Math or computer programming course (3 credits)

Electives Upper Division Mathematical Sciences (12 credits) - Please see FAU catalog for possible course prerequisites.

MAS 3203	Introductory Number Theory *(Recommended)*	3 credits
MAP 3305	Engineering Mathematics I	3 credits
MAD 3400	Numerical Methods *(Recommended)*	3 credits
MAD 4402	Numerical Analysis II	3 credits
MHF 3404	History of Mathematics *(Recommended)*	3 credits
MHF 3302	Mathematical Logic	3 credits
STA 4102	Computational Statistics I	3 credits
STA 4103	Computational Statistics II	3 credits
STA 4234	Applied Statistics I *(Recommended)*	2 credits (and)
STA 4202L	Applied Statistics I Lab *(Recommended)*	1 credit
STA 4702	Applied Statistics II	3 credits
MAD 4301	Graph Theory *(Recommended)*	3 credits
STA 4853	Applied Time Series and Forecasting	3 credits
MAP 4303	Differential Equations II	3 credits (OR)
MAP 4306	Engineering Mathematics II	3 credits
MAA 4402	Introductory Complex Analysis *(Recommended)*	3 credits
STA 4443	Probability and Statistics II *(Recommended)*	3 credits
STA 4618	Linear Programming & Game Theory *(Recommended)*	3 credits
MAT 4937	Mathematical Problem Solving	3 credits
CIS 4362	Cryptography and Information Security	3 credits
MAS 4107	Linear Algebra II	3 credits
MAD 4605	Introduction to Coding Theory	3 credits
MTG 4930	Topics in Geometry	1-4 credits
MAT 4930	Topics in Mathematics	1-4 credits
MAT 4906	Directed Independent Study	1-4 credits
STA 4906	Directed Independent Study	1-4 credits