

Florida Atlantic University - Secondary Education - Physics 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)
<i>Or any mathematics course for which one of the above general education core course options in Mathematics is the direct prereq.</i>	
(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)
Please review page 2 for the major information	

Natural Science	
(Group A)	
BSC 1010 & L	Biological Principles (4 cr. w/Lab)
CHM 2045 & L	General Chemistry 1 (4 cr. w/Lab) ‡
PHY 2048 & L	General Physics 1 (5 credits w/Lab) ** (Required)
<i>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.</i>	
(Group B)	
BSC 1011 & L	Biodiversity (4 cr. w/Lab)
Note: Must select either BSC 1011 & 1010 or CHM 2045 & 2046 (all with labs).	
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
Additional Enrichment (6 credits) Choose 6 credits from Humanities, Social Science, or Natural Science	
(1) _____ (2) _____	

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).
***	Medical Biology majors must select one of these math courses.
#	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

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FOREIGN LANGUAGE (4 - 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/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

41 cr	General Education (not including science courses)
17 cr	Free Electives (Foreign Language taken for BS count as electives)
9 cr	Lower-Division College Requirements
24 cr	Professional Education
29 cr	<u>Major Content</u>
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/>

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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.

8 credits in Biology or Chemistry required:

Biology Department

BSC 1011 & L Biodiversity (4 credits including Lab)
BSC 1010 & L Biological Principles (4 credits including Lab)

2 Biology or 2 Chemistry Courses

Chemistry Department

CHM 2045 & L General Chemistry I (4 credits including Lab)
CHM 2046 & L General Chemistry II (4 credits including Lab)

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: Physics 6-12 (6-12 credits) **(Full-time internship, completed during a fall/spring term)**

PHYSICS MAJOR CONTENT (29 credits)

PHY 1090 First Year Physics Seminar (1 credit)
PHY 2049 & L General Physics II + Lab (5 credits) **(Prerequisite: PHY 2048 + L & MAC 2312)**
MAP 3305 Engineering Mathematics (3 credits)
PHY 3101C Survey to Modern Physics (4 credits) **(Prerequisite: MAP 3305)**
PHY 3323 Electromagnetism I (4 credits)
PHY 3722 Physical Electronics (4 credits)

Upper-Division Physics and Mathematics Electives must be approved by advisor.

SELECT TWO:

(All courses are 4 credits each)
PHY 3503 Thermodynamics
PHY 4604 Quantum Mechanics I **(Prerequisite: PHZ 4113)**
PHY 3221 Classical Mechanics

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/>