Florida Atlantic University - Chemistry (BA/BS) 2026-2027

Students must take 2 of the following courses, 1 must be from group A. The second course may be in group A or group B.

I. Communication

(Group A)

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

Students must complete ENC 1101 and ENC 1102 (or one of the approved substitutes for ENC 1102) with a grade of "C" or higher in each course.

(Group B)

ENC 1102	College Writing II **(WAC)** +
ENC 2135	Research and the Writing Process **(WAC)** + Ω
HIS 2050	Writing History **(WAC)** +
SPC 2608	Public Speaking (non-WAC) **non-substitute**

II. Humanities

(Group A)

ARH 2000	Art Appreciation
HUM 2020	Introduction to Humanities
LIT 2000	Introduction to Literature **(WAC)**
MUL 2010	Music Appreciation
PHI 2010 & D	Introduction to Philosophy **(WAC)** ++
THE 2000	Theatre Appreciation

(Group B)

ARC 2208	Culture & Architecture
ARH 2050	History of Art 1
ARH 2051	History of Art 2
DAN 2100	Appreciation of Dance
FIL 2000 & D	Film Appreciation
LIN 2607	Perspectives on Language
LIT 2010	Interpretation of Fiction **(WAC)** ++
LIT 2030	Interpretation of Poetry **(WAC)** ++
LIT 2040	Interpretation of Drama **(WAC)** ++
LIT 2070	Interp. of Creative Nonfiction **(WAC)** ++
LIT 2100	Introduction to World Literature
MUH 2121	World Music
SPT 2530	Hispanic Culture and Civilization
WOH 2012 & D	History of Civilization 1 **(WAC)** ++
WOH 2022	History of Civilization 2

III. Mathematics

(Group A)

MAC 1105	College Algebra **(BA major)**
MAC 2311	Calc. with Analytic Geometry 1 (4 cr.) ***

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

(Group B)

MAC 1147	Precalculus Algebra & Trigonometry (4 cr.)
MAC 2210	Intro Calculus w/App. (4 cr.) ***(Permit Only)***
MAC 2233	Methods of Calculus **(BA major)**
MAC 2312	Calc. with Analytic Geometry 2 (4 cr.) ***
MAP 2491	Mathematics for Biological Sciences 1

IV. Natural Science

(Group A)

BSC 1010 & L	Biological Principles (4 cr. w/Lab) **(BS major)**
CHM 2045 & L	Gen. Chemistry 1 (4 cr. w/Lab) ‡ **(Required)**
PHY 2048 & L	Gen. Physics 1 (5 cr. w/Lab) * (**BA/BS major)**
PHY 2053 & L	College Phys. 1 (5 cr. w/Lab) ** (**BA/BS major)**

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

(Group B)

BSC 1011 & L	Biodiversity (4 cr. w/Lab)
PSC 2121	Physical Science

V. 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 2100	Introduction to Archaeology Ω
CCJ 2002	Law, Crime & the Criminal Justice System
ECO 2023	Microeconomic Principles
EME 2620	Digital Literacy
EVR 1110	Human Dimensions of Environmental Change
EVR 2017	Environment and Society
GEA 2000	World Geography
INR 2002	Introduction to World Politics
LIN 2001	Introduction to Language (online)
PAD 2081	Risk & Resilience to Natural Hazards
POT 2000	Global Political Theory
SOW 1005	Perspectives of Social Services
SYO 2101	Families in the United States Ω
URP 2051	Designing the City

VI. Additional Enrichment

Choose 6 credits from Humanities, Social Science, Communication, or Natural Science subject areas.

(1) _____ (2) _____

FOREIGN LANGUAGE (4 - 8 credits) - **REQUIRED** - 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.

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.
Ω Offered starting Fall 2026.
◊ 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).
******* Required math for BS majors
(R) – Recommended
(SR) – Strongly Recommended
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.

NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE WAC/GRW REQUIREMENT. See the University Advising Services Office for details.

NOTE: See the 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.

The Charles E. Schmidt College of Science has the following requirements (per the University catalog):

1. Any coursework in the major field transferred from another institution must be approved by the major department
2. The maximum amount of credit that may be earned through co-op is 10 credits; some departments allow some of these credits to substitute for major courses. Check with the department for specifics.

MAJOR COURSES, COLLEGE REQUIREMENTS - B.A. IN CHEMISTRY

The Bachelor of Arts is a liberal arts degree intended for students planning professional careers in chemistry-related professions; ex. health professions (medicine, dentistry, & pharmacy), environmental consulting, technical sales, and secondary school teaching. In addition to the University and Charles E. Schmidt College of Science requirements, students seeking a Bachelor of Arts (B.A.) degree in Chemistry must complete the following program:

CHM 2045 & Lab*	General Chemistry 1 w/ Lab	4 cr.
CHM 2046 & Lab*	General Chemistry 2 w/ Lab	4 cr.
CHM 2210*	Organic Chemistry 1	3 cr.
CHM 2211*	Organic Chemistry 2	3 cr.
CHM 2211 Lab*	Organic Chemistry Lab	2 cr.
MAC 1105	College Algebra	3 cr.
MAC 2233	Methods of Calculus	3 cr.
PHY 2053	College Physics 1	4 cr.
PHY 2048 Lab	General Physics 1 Lab	1 cr.
PHY 2054	College Physics 2	4 cr.
PHY 2049 Lab	General Physics 2 Lab	1 cr.

*FAU lower-division Chemistry sequence requires a C or better to take the next course in the sequence.

CREDIT SUMMARY

41 - 45 cr.	**General Education Courses & Foreign Language**
35 cr.	**Major Core**
25 cr.	**Upper Division Electives**
15 - 19 cr.	**Free Electives**
120 credits	**TOTAL (42 credits at upper-division minimum)**

NOTE: The credit summary numbers are based on common course selection. Please consult your advisor.

Florida Atlantic University – Chemistry (BA/BS) 2026-2027

MAJOR COURSES, COLLEGE REQUIREMENTS - B.S. IN CHEMISTRY: ACS Approved Program

The ACS-approved B.S. program offers similar rigorous training in all aspects of chemistry as the basic track but includes some additional requirements corresponding with the certification guidelines of the Committee on Professional Training of the American Chemical Society (ACS). An ACS-certified degree can offer advantages in job placement and graduate school admission.

CHM 2045 & Lab*	General Chemistry 1 w/ Lab	4 cr.
CHM 2046 & Lab*	General Chemistry 2 w/ Lab	4 cr.
CHM 2210*	Organic Chemistry 1	3 cr.
CHM 2211*	Organic Chemistry 2	3 cr.
CHM 2211 Lab*	Organic Chemistry Lab	2 cr.
MAC 2311	Calc. with Analytic Geometry 1	4 cr.
MAC 2312	Calc. with Analytic Geometry 2	4 cr.
PHY 2048	General Physics 1	4 cr.
PHY 2048 Lab	General Physics 1 Lab	1 cr.
PHY 2049	General Physics 2	4 cr.
PHY 2049 Lab	General Physics 2 Lab	1 cr.
MAC 2313	Calc. with Analytic Geometry 3	4 cr.
or		
MAP 2302	Differential Equations 1	3 cr.

*FAU lower-division Chemistry sequence requires a C or better to take the next course in the sequence.

CREDIT SUMMARY

41 – 45 cr.	**General Education Courses & Foreign Language**
59 cr.	**Major Core & Electives**
7 cr.	**Upper Division Electives**
9 – 13 cr.	**Free Electives**
120 credits	**TOTAL (42 credits at upper-division minimum)**

NOTE: The credit summary numbers are based on common course selection. Please consult your advisor.

MAJOR COURSES, COLLEGE REQUIREMENTS IN CHEMISTRY: BIOCHEMISTRY PROGRAM (B.S.)

The Biochemistry program is designed for students pursuing careers in biochemistry and related disciplines such as molecular biology, biophysics, and pharmacology. Additionally, premedical students who wish to pursue a research-oriented curriculum might be interested in it. In addition to the University and Charles E. Schmidt College of Science requirements, the B.S. in Chemistry (Biochemistry) degree program requires the following courses:

BSC 1010 & Lab	Biological Principles w/Lab	4 cr.
CHM 2045 & Lab*	General Chemistry 1 w/ Lab	4 cr.
CHM 2046 & Lab*	General Chemistry 2 w/ Lab	4 cr.
CHM 2210*	Organic Chemistry 1	3 cr.
CHM 2211*	Organic Chemistry 2	3 cr.
CHM 2211 Lab*	Organic Chemistry Lab	2 cr.
MAC 2311	Calc. with Analytic Geometry 1	4 cr.
or		
MAC 2233	Methods of Calculus	3 cr.
and		
PSY 3234	Exp. Design and Stat. Inference	3 cr.
or		
STA 2023	Introductory Statistics	3 cr.
PHY 2048	General Physics 1	4 cr.
or		
PHY 2053	College Physics 1	4 cr.
PHY 2048 Lab	General Physics 1 Lab	1 cr.
PHY 2049	General Physics 2	4 cr.
or		
PHY 2054	College Physics 2	4 cr.
PHY 2049 Lab	General Physics 2 Lab	1 cr.

*FAU lower-division Chemistry sequence requires a C or better to take the next course in the sequence.

PREMEDICAL/PREPROFESSIONAL COURSES FOR CHEMISTRY MAJORS

BSC 1011 & Lab	Biodiversity w/Lab **(Required)**	4 cr.

CREDIT SUMMARY

41 – 45 cr.	**General Education courses & Foreign Language**
60 cr.	**Major Core & Biochemistry Electives**
10 cr.	**Upper Division Electives**
5 – 9 cr.	**Free Electives**
120 credits	**TOTAL (42 credits at upper-division minimum)**

NOTE: The credit summary numbers are based on common course selection. Please consult your advisor.

BACHELOR OF SCIENCE DEGREE WITH MAJOR IN CHEMISTRY: MEDICINAL CHEMISTRY PROGRAM (B.S.)

The B.S. Program with a Concentration in Medicinal Chemistry provides a unique opportunity for students passionate about chemistry and drug discovery. This program focuses on the principles of drug design, synthesis and analysis, preparing students for a dynamic career in the pharmaceutical industry, biotechnology companies, research institutions, academia and medicine. (New, effective spring 2026)

CHM 2045 & Lab*	General Chemistry 1 w/ Lab	4 cr.
CHM 2046 & Lab*	General Chemistry 2 w/ Lab	4 cr.
CHM 2210*	Organic Chemistry 1	3 cr.
CHM 2211*	Organic Chemistry 2	3 cr.
CHM 2211 Lab*	Organic Chemistry Lab	2 cr.
MAC 2311	Calc. with Analytic Geometry 1	4 cr.
and		
MAC 2212**	Calc. with Analytic Geometry 2	4 cr.
MAP 2491	Math for Biological Sciences 1	3 cr.
or		
MAC 2233	Methods of Calculus	3 cr.
STA 2023	Introductory Statistics	3 cr.
PHY 2048	General Physics 1	4 cr.
or		
PHY 2053	College Physics 1	4 cr.
PHY 2048 Lab	General Physics 1 Lab	1 cr.
PHY 2049	General Physics 2	4 cr.
or		
PHY 2054	College Physics 2	4 cr.
PHY 2049 Lab	General Physics 2 Lab	1 cr.

*FAU lower-division Chemistry sequence requires a C or better to take the next course in the sequence.

**Preferred sequence with Differential Equations (MAP 2302) or Calculus 3 (MAC 2311)

CREDIT SUMMARY

41 – 45 cr.	**General Education Courses & Foreign Language**
58 cr.	**Major Core & Electives**
6 cr.	**Upper Division Electives**
11 – 15 cr.	**Free Electives**
120 credits	**TOTAL (42 credits at upper division minimum)**

NOTE: The credit summary numbers are based on common course selection. Please consult your advisor.