SECONDARY SCIENCE CHEMISTRY EDUCATION MAJOR (2022 - 2023)

College for Education
Bachelor of Science (BS) or Bachelor of Science in Education (BSE)

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          Group B

--------For Science Majors--------   --------For Science Majors--------
___ BSC 1010 & L & D
    Biological Principles
    (4 cr. Incl. Lab & Dis)
___ CHM 2045 & L (REQUIRED)
    General Chemistry 1
    (4 cr. Incl. Lab) ±
___ PHY 2053 (REQUIRED)
    College Physics 1
    (5 credits incl. Lab) **
___ BSC 1011 & L & D
    Biodiversity (4 cr. incl Lab & Dis)

Additional science courses are required. Consult with your academic advisor.

(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 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.

PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE

Group A
___ MGF 1106...... Math for Liberal Arts 1
___ MGF 1107...... Math for Liberal Arts 2
___ MAC 1105...... College Algebra (REQUIRED)
___ STA 2023 ...... Introductory Statistics
___ MAC 2311...... Calculus with Analytic Geometry 1 (4 credits)
or any mathematics course for which one of the above courses is the direct prerequisite

Group B
___ MAC 1147...... Precalculus Algebra & Trigonometry (4 credits)
___ MAC 2210...... Intro Calculus w/Applications (4 credits) (Permit Only)
___ MAC 2233...... Methods of Calculus (REQUIRED or higher math)
___ MAC 2312...... Calculus with Analytic Geometry 2 (4 credits)
___ COP 1031C...... Computer Programming & Data Literacy for Everyone
    (For Non-College Engineering & Computer Science majors)
___ 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 ◊
    RECOMMENDED
___ ANT 2000 & D ......Introduction to Anthropology (WAC)
___ ECO 2013 ...............Macroeconomic Principles §
___ POS 2041..............Government of the United States ◊
    RECOMMENDED
___ PSY 1012 ...............Introduction to Psychology
___ SYG 1000 ....... Sociological Perspectives RECOMMENDED

Group B
___ AMH 2010 & D ......United States History to 1877
    RECOMMENDED
___ CCI 2002.................Law, Crime & the Criminal Justice System ±
___ 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 2081 ...............Risk Resilience and Rising Seas ±
___ PAD 2258 ...............Changing Environment of Soc., Bus., & Gov’t
___ SYG 2010.... Social Problems
___ URP 2051 ....... Designing the City

Additional science courses are required. Consult with your academic advisor.

FLORIDA ATLANTIC UNIVERSITY – INTELLECTUAL FOUNDATION PROGRAM 2022 - 2023
All courses are three (3) credits unless otherwise indicated. Course selections should be made in consultation with an academic advisor.
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
___ JST 2452 ...............Global Jewish Communities Ω
___ LAS 2000 ..............Intro to Caribbean & Latin American Studies
___ LIN 2607 ..............Global Perspectives on Language
___ MUH 2121 ..........Music in Global Society Ω
___ POT 2000 ..............Global Political Theory ±
___ SOW 1005 .............Global Perspectives of Social Services
___ WOH 2012 & D ......History of Civilization 1 (WAC) ++
___ WOH 2012 ..........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.
± - Co-requisite of College Algebra (MAC 1105) or a prerequisite of Introductory Chemistry (CHM 1025).
Ω - Starting Spring 2023
◊ - See information box below regarding Civic Literacy Requirement
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 2030, LIT 2040, LIT 2070 and LIT 2391. See advisor for additional details.

(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.

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.

Go to MyFAU to:
https://myfau.fau.edu
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

Civic Literacy Requirement
https://www.fau.edu/ugstudies/civic-literacy-requirement/
Beginning in Fall 2018, students entering a Florida public institution as a degree-seeking student for the first time needs to demonstrate civic literacy through either taking a certain course (AMH 2020 or POS 2041) or passing an assessment exam. Beginning in Summer 2021, Florida Legislature amended the statute and now requires students to complete both a civic literacy course (AMH 2020 or POS 2041) and an assessment exam.
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/SPAN 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 Language, Linguistics, and Comparative Literature Department regarding this requirement.

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

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>30</td>
<td>Intellectual Foundations Program</td>
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<tr>
<td>10</td>
<td>Free Electives (Foreign Language taken for BS count as 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>47</td>
<td>Major Content</td>
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<td><strong>120 CREDITS</strong></td>
<td>TOTAL</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

**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. Earn 60 credits.
3. Submit passing scores on all sections of the General Knowledge (GK) test to the College of Education www.fl.nesinc.com
4. Meet the general university requirements for admission.
5. Complete FAU’s Intellectual Foundations Program or an AA Degree from a Florida State University or College.
6. Be interviewed and recommended for admission.
7. Be programmed by an assigned advisor.
8. Be approved for admission by the College of Education.
MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

NON-MAJOR/FREE ELECTIVES (12 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 \(\text{(15 observation hours)}\) (3 credits)
EDF 2085 Intro to Diversity for Educators \(\text{(15 observation hours)}\) (3 credits) \(\text{(WAC)}\)
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)
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-hrs plus security) \(\text{****}\)
SCE 4944 Student Teaching: Chemistry 6 - 12 (6 credits) \(\text{(Final Semester)}\)

CHEMISTRY MAJOR CONTENT (37 credits)
MAC 1105 College Algebra (3 credits)
MAC 2233 Methods of Calculus (3 credits)
PHY 2053 College Physics for the Life Sciences I (4 credits) \(\text{(Prerequisite MAC 2233)}\)
PHY 2054 College Physics for the Life Sciences II (4 credits) \(\text{(Prerequisite of PHY 2053)}\)
CHM 2045 + L General Chemistry I + Lab (4 credits)
CHM 2046 + L General Chemistry II + Lab (4 credits) \(\text{(Prerequisite of CHM 2045 + L)}\)
OCE 3008 Oceanography (3 credits)
CHM 3060 Chemical Literature (1 credit)
CHM 3120 + L Quantitative Analysis + Lab (4 credits)
CHM 2210 & D Organic Chemistry I (3 credits)
CHM 2211 + L Organic Chemistry II + Lab (5 credits)
BCH 3033 Biochemistry I (3 credits)
BCH 3103L Biochemistry Lab (3 credits)
CHM 3400 Introduction to Physical Chemistry (3 credits)
CHM 3609 + L Inorganic Chemistry + Lab (4 credits)

\* 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/