SECONDARY SCIENCE CHEMISTRY EDUCATION MAJOR (2020 - 2021)  

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:  
| English Department  
| ENC 1939+.....Special Topic: College Writing  
| ENC 2452+.....Honors Composition for Science  
| History Department  
| 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  
| Biology Department  
| BSC 1010 & L & D  
| Biological Principles  
| (4 cr. Incl. Lab & Dis)  
| Chemistry Department  
| CHM 2045 & L (REQUIRED)  
| General Chemistry 1  
| (4 cr. Incl. Lab)  
| Physics Department  
| PHY 2053 (REQUIRED)  
| College Physics 1  
| (5 credits incl. Lab)  

**Group B**  

| Biology Department  
| BSC 1011 & L & D  
| Biodiversity (4 cr. incl Lab & Dis)  

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

| 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)  
| MAC 2233......Methods of Calculus (REQUIRED or higher math)  
| MAC 2312......Calculus with Analytic Geometry 2 (4 credits)  

| Computer Science & Engineering Department  
| COP 1034C......Computer Programming & Data Literacy for Everyone  
| (For Non-College Engineering & Computer Science majors)  

| Philosophy Department  
| 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.  
| History Department  
| AMH 2010 & D ........U.S. History Since 1877 (P/F) (RECOMMENDED)  
| AMH 2020 & D ........U.S. History to 1877 (P/F) (RECOMMENDED)  
| History Department  
| AMH 2010 & D ........U.S. History Since 1877 (P/F) (RECOMMENDED)  
| ANT 2000 & D...........Introduction to Anthropology (WAC)  
| Economics Department  
| ECO 2013 ...............Macroeconomic Principles §  
| Political Science Department  
| POS 2041 ...............Government of the United States (RECOMMENDED)  
| Psychology Department  
| PSY 1012..................Introduction to Psychology  
| Sociology Department  
| SYG 1000 ..................Sociological Perspectives (RECOMMENDED)  

**Group B**  

| History Department  
| AMH 2010 & D ........U.S. History to 1877 (P/F) (RECOMMENDED)  
| Economics Department  
| ECO 2023.................Microeconomic Principles §  
| ECP 2002 ...............Contemporary Economic Issues  
| Exceptional Student Education Department  
| EEX 2091.................Disability and Society  
| Geosciences Department  
| EVR 2017 .................Environment and Society  
| Languages, Linguistics, & Comparative Literature Department  
| LIN 2011 .................Introduction to Language (online course)  
| Public Administration Department  
| PAD 2258 .................Changing Environment of Soc., Bus., & Gov't  
| Sociology Department  
| SYG 1010 .................Social Problems  
| Urban & Regional Planning Department  
| URP 2051.................Designing the City  

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(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 IN GLOBAL CITIZENSHIP  
(6 credit hours required)  
Student 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

**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

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.  
** - MAC 2233 is a prerequisite 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.

§ 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 2010, LIT 2030, LIT 2040 and LIT 2070. 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.

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 credit 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.

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
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/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 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>Requirement</th>
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<tbody>
<tr>
<td>38</td>
<td>Intellectual Foundations Program</td>
</tr>
<tr>
<td>12</td>
<td>Free Electives (Foreign Language taken for BS count as electives)</td>
</tr>
<tr>
<td>09</td>
<td>Lower-Division College Requirements</td>
</tr>
<tr>
<td>24</td>
<td>Professional Education</td>
</tr>
<tr>
<td>37</td>
<td>Major Content</td>
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<tr>
<td>120</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 (15 observation hours) (3 credits)
EDF 2085 Intro to Diversity for Educators (15 observation hours) (3 credits) (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) ****
SCE 4944 Student Teaching: Chemistry 6 - 12 (6 credits)

CHEMISTRY MAJOR CONTENT (37 credits)
PHY 2054 College Physics for the Life Sciences II (4 credits) (Prerequisite of PHY 2053)
CHM 2046 + L General Chemistry II + Lab (4 credits) (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/