

# Kennesaw State University

## Department of Chemistry

# BS Chemistry, Education Track

See <http://www.kennesaw.edu/owlteach>

\*See <http://catalog.kennesaw.edu> for general education comments, prerequisites, course descriptions, program details, and graduation requirements.

### CHECKLIST | Effective Fall 2016

Total Degree Hours: 127

GENERAL EDUCATION (45 hrs)	C.H.	GR
<b>AREA A: Essential Skills</b>		
ENGL 1101 Composition I (3 c.h.)		
ENGL 1102 Composition II (3 c.h.)		
MATH 1112 College Trig or MATH 1113 (3 c.h.) PreCalculus a		
<b>AREA B: Institutional Options</b> (*Recommended by Department) <sup>c</sup>		
ECON 1000 Contemporary Economics Issues (2 c.h.)		
COM 1100 Human Recommunication (3 c.h.) *		
<b>AREA C: Humanities/Fine Arts</b>		
Select 1 of 10 Literature of the World: (3 c.h.)		
ENGL 2110, 2111, 2112, 2120, 2121, 2122, 2130, 2131, 2132, or 2300		
Select 1 of 4 Arts and Culture of the World course: (3 c.h.)		
ART, MUSI, TPS, or DANC 1107		
<b>AREA D: Science, Math, and Technology</b>		
PHYS 2211 Principles of Physics I (2 c.h.)		
PHYS 2211L Principles of Physics I Lab (2 c.h.)		
PHYS 2212 Principles of Physics II (3 c.h.)		
PHYS 2212L Principles of Physics II Lab (2 c.h.)		
MATH 1190 Calculus I (4 c.h.)		
<b>AREA E: Social Sciences</b> (*Recommended by Department) <sup>c</sup>		
POLS 1101 American Government (3 c.h.)		
HIST 2112 America Since 1890 (3 c.h.) *		
HIST 1100 Introduction to World History (3 c.h.) *		
STS 1101 Science, Technology, and Society (3 c.h.) *		
<b>INSTITUTIONAL REQUIREMENT</b>		
WELL 1000 Fitness for Living (3 c.h.)		
<b>FREE ELECTIVES (3 c.h.)<sup>a,b</sup></b>		
KSU First Year Seminar (3 c.h.) or Learning Community <sup>b</sup>		
<b>AREA F: LOWER DIVISION REQUIREMENTS (19 hrs)</b>		
CHEM 1211 General Chemistry I (3 c.h.)		
CHEM 1211L General Chemistry I Lab (2 c.h.)		
CHEM 1212 General Chemistry II (3 c.h.)		
CHEM 1212L General Chemistry I Lab (2 c.h.)		
CHEM 2800 Quantitative Analytical Chem (3 c.h.)		
CHEM 2800L Quantitative Analytical Chem Lab (2 c.h.)		
MATH 2202 Calculus II (4 c.h.)		
<i>Plus course credit from General Education, Area D (2 credits)</i>		

UPPER DIVISION MAJOR REQUIREMENTS	C.H.	GR
<b>REQUIRED COURSES</b>		
CHEM 3050 Physics Chemistry (3 c.h.)		
CHEM 3105 Inorganic Chemistry (3 c.h.)		
CHEM 3105L Inorganic Synthesis Lab (2 c.h.)		
CHEM 3361 Modern Organic Chem I (3 c.h.)		
CHEM 3361L Modern Organic Chem I Lab (2 c.h.)		
CHEM 3362 Modern Organic Chem II (3 c.h.)		
CHEM 3362L Modern Organic Chem II Lab (2 c.h.)		
CHEM 3400 Teaching & Learning of Chem (3 c.h.)		
CHEM 4100 Directed Applied Reserch (2 c.h.)		
CHEM 3500 Biochemistry (3 c.h.)		
CHEM 3500L Biochemistry Lab (2 c.h.)		
CHEM 3xxx/4xxx - Cemistry Elective (3 c.h.)		
<b>EDUCATIONAL TRACK CONTENT REQUIREMENTS</b>		
BIOL 1107 Principles of Biology (3 c.h.)		
BIOL 1107L Principles of Biology Lab (2 c.h.)		
<b>PROFESSIONAL EDUCATION REQUIREMENTS</b>		
** EDMS 1101 Step 1: Inquiry Approached to Teaching (2 c.h.) (10 hr field experience)		
EDSM 1102 Step 2: Inquiry-based Lesson Design (2 c.h.) (10 hr field experience)		
EDSM 2010 Knowing and Learning (3 hr)		
SCED 2421 Classroom Interactions (3 hr) (45 hr field experience)		
SCED 3010 Perspectives on Science Teaching (3 hr)		
CHED 4422 Project-based Instruction (3 c.h.) (45 hr field experience)		
CHED 4423 Pedagogical Content Knowledge for Chemistry (2hrs)		
CHED 4660 Year-long Clinical Practicum II (6 hrs) (560 hr field experience)		
INED 3305 Teaching Students with Exceptionalities I (2 c.h.)		
INED 3306 Teaching Students with Exceptionalities II (2 c.h.)		
INED 4435 Teaching Adolescent English Learners (2 c.h.)		
INED 4436 Teaching Diverse Language Learners (2 c.h.)		
ITEC 3300 Improv. Teach. w/ Tech. in HS Classroom (3 c.h.)		

\*\* A cleared Background check is required to commence the OwlTeach sequence\*\*

### ADMISSION TO TEACHER EDUCATION

- Complete an online application through the Student Services tab in your Owl Express account.
- Apply during the appropriate dates for that year/term. s
- Completed at least 45 semester hours.
- Complete EDSM 1101,1102 & 2010 with a 'C' or better, a satisfactory field experience evaluation, and recommendation from the EDUC 2010 instructor.
- Achieved a 3.00 KSU adjusted GPA for guaranteed admission, but a 2.75 for consideration on a case-by-case basis.
- Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC id #.
- Pass or exempt (STAT 1000 or ACT 43) the GACE Program Admissions Tests in Reading, Writing, and Math.

For details visit: <http://bagwell.kennesaw.edu/centers/ess/ess-resources/ess-forms>

<sup>a</sup> New students are required to take the online Math Advisement Placement Test (MAPT) available at <http://placement.kennesaw.edu>. Students who do not start at MATH 1190 as their first MATH can use MATH 1111, MATH 1112, or MATH 1113 as Free Electives.

<sup>b</sup> First time, full-time students with less than 15 hours are required to satisfy the First Year requirement.

<sup>c</sup> Courses recommended by department, to see full list of courses to satisfy requirement view catalog

Student's Signature & Date

Advisor's Signature & Date