**Kennesaw State University**

**Department of Chemistry**

*See [http://catalog.kennesaw.edu](http://catalog.kennesaw.edu) for general education comments, prerequisites, course descriptions, program details, and graduation requirements.

**CHECKLIST | Effective Fall 2016**

### GENERAL EDUCATION (45 hrs)

<table>
<thead>
<tr>
<th>AREA A: Essential Skills</th>
<th>C.H.</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101 Composition I (3 c.h.)</td>
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<tr>
<td>ENGL 1102 Composition II (3 c.h.)</td>
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<tr>
<td>MATH 1112 College Trig or MATH 1113 (3 c.h.) PreCalculus a</td>
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</table>

**AREA B: Institutional Options**

- (Recommended by Department)*
  - ECON 1000 Contemporary Economics Issues (2 c.h.)
  - COM 1100 Human Recommodation (3 c.h.) *

### AREA C: Humanities/Fine Arts

- 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 DAN 1107

### AREA D: Science, Math, and Technology

- 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.)

**AREA E: Social Sciences**

- (Recommended by Department)*
  - 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.) *

**INSTITUTIONAL REQUIREMENT**

- WELL 1000 Fitness for Living (3 c.h.)

**FREE ELECTIVES (3 c.h.), a,b**

- KSU First Year Seminar (3 c.h.) or Learning Communityb

### AREA F: LOWER DIVISION REQUIREMENTS (19 hrs)

- 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 II 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.)

**Plus course credit from General Education, Area D (2 credits)**

**UPPER DIVISION MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>C.H.</th>
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<tbody>
<tr>
<td>CHEM 3050 Physics Chemistry (3 c.h.)</td>
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<tr>
<td>CHEM 3105 Inorganic Chemistry (3 c.h.)</td>
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<tr>
<td>CHEM 3105L Inorganic Synthesis Lab (2 c.h.)</td>
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<tr>
<td>CHEM 3361 Modern Organic Chem I (3 c.h.)</td>
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<tr>
<td>CHEM 3361L Modern Organic Chem I Lab (2 c.h.)</td>
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<tr>
<td>CHEM 3362 Modern Organic Chem II (3 c.h.)</td>
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<tr>
<td>CHEM 3362L Modern Organic Chem II Lab (2 c.h.)</td>
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<tr>
<td>CHEM 3400 Teaching &amp; Learning of Chem (3 c.h.)</td>
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<tr>
<td>CHEM 4100 Directed Applied Research (2 c.h.)</td>
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<tr>
<td>CHEM 3500 Biochemistry (3 c.h.)</td>
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<tr>
<td>CHEM 3500L Biochemistry Lab (2 c.h.)</td>
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<tr>
<td>CHEM 3xxx/4xxx - Chemistry Elective (3 c.h.)</td>
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**EDUCATIONAL TRACK CONTENT REQUIREMENTS**

- BIOL 1107 Principles of Biology (3 c.h.)
- BIOL 1107L Principles of Biology Lab (2 c.h.)

**PROFESSIONAL EDUCATION REQUIREMENTS**

- EDSM 1101 Step 1: Inquiry Approach 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) (40 hr field experience)
- SCED 3010 Perspectives on Science Teaching (3 hr)
- CHED 4422 Project-Based Instruction (3 c.h.) (40 hr field experience)
- CHED 4423 Pedagogical Content Knowledge for Chemistry (2 hrs)
- CHED 4500 Year-long Clinical Practicum II (6 hrs) (50 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.
- 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](http://bagwell.kennesaw.edu/centers/ess/ess-resources/ess-forms)

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a New students are required to take the online Math Advisement Placement Test (MAPT) available at [http://placement.kennesaw.edu](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.

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

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

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Student's Signature & Date

Advisor's Signature & Date

BS Chemistry, Education Track Checklist Revised 08/01/2016