SECONDARY EDUCATION - CHEMISTRY

Effective Fall 2013

Students seeking Secondary Education Certification in Chemistry must declare majors in both Chemistry (BA) and Secondary Education (Chemistry) and complete the full Chemistry (BA) course sequence as well as the Secondary Education Professional Course and Certification requirements. Students must consult their advisers in both departments each semester regarding course selection and other certification requirements.

A total of 123-126 Credits are required for a Bachelor of Science in Education with a specialization in chemistry. Required courses include:

Required by Chemistry for Secondary Ed. Major (51 credits)

CHEM.115 Chemistry for the Sciences 1 CHEM.116 Chemistry for the Sciences 2 CHEM.231 Organic Chemistry I CHEM.232 Organic Chemistry I CHEM.321 Analytical Chemistry I CHEM.341 Biochemistry CHEM.361 Physical Chemistry I CHEM.251 Inorganic Chemistry CHEM.475 The Chemistry Curriculum & the Teaching Lab EGGS.105 Environmental Issues & Choices EGGS.120 Physical Geology MATH.225 Calculus III PHYSICS.211 General Physics I PHYSICS.212 General Physics II

Required by Education (40 credits)

COMMSTUD.103 Public Speaking or COMMSTUD.104 Interpersonal Communication EDFOUND.204 Educational Technology EDFOUND.206 Teachers, Schools & Society EDFOUND.251 Psychological Foundations of Ed EDFOUND.291 Principles of Teaching EDFOUND.311 Classroom Meas. & Assessment EDFOUND.406 Multicultural Education EDFOUND.406 Multicultural Education EDFOUND.427 Classroom Management & Eff Disc EDFOUND.497 Student Teaching: 1st Experience EDFOUND.498 Student Teaching: 2nd Experience PROFSTUD.320 PDS (replaces EDFOUND.311 & SECED.355) PSYCH.101 General Psychology SECED.453 Teaching Science in Sec School (Fall)

Required by PDE (27 credits)

ENGLISH.101 Foundations of College Writing I ENGLISH ____ Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257) MATH.125 Calculus I MATH.126 Calculus II PROFSTUD.494 ELL Strategies PSYCH.212 Adolescent Psychology SPECED.101 Introduction to Except Individuals SPECED.275 Linking Assessment SPECED.358 Methods of Instr Stud with Disabilities

Course Number	Course Title	GEPs
***Goal 1: Cor	nmunication; minimum 7 GEPs, from minimum of 3 disciplines.	
COMMSTUD.103/104	Public Speaking or Interpersonal Communication	3
EDFOUND.291	Principles of Teaching	2
ENGLISH.101	Foundations of College Writing I	3
	*Goal 2: Information Literacy; minimum 2 GEPs	
EDFOUND.204	Educational Technology	3
**Goal 3: Analysis, Quar	ntitative Reasoning, & Problem Solving; minimum 5 GEPs, from m	inimum
	of 2 disciplines.	
CHEM.115	Chemistry for the Sciences 1	1
MATH.125	Calculus I	2
MATH.126	Calculus II	3
**Goal 4: Cultur	es & Diversity; minimum 5 GEPs, from minimum of 2 disciplines.	
EDFOUND.291	Principles of Teaching	1
EDFOUND.406	Multicultural Education	2
SPECED.101	Intro to Exceptional Individuals	2
**Goal 5: Natural Science	ces; minimum 5 GEPs, from minimum of 2 disciplines; any 3-credit	t course
	with	
	3 GEPs for Goal 5 can replace CHEM.100.	
CHEM.115	Chemistry for Sciences I	3
EGGS.105	Environmental Issues & Choices	1
MATH.125	Calculus I	1
**Goal 6: Soc	ial Sciences; minimum 5 GEPs, from minimum of 2 disciplines.	
EDFOUND.206	Teachers, Schools, and Society	1
PSYCH.101	General Psychology	3
SPECED.275	Linking Assessment	1
**Goal 7: Humanities;	minimum 5 GEPs, from minimum of 2 disciplines; Select MUSIC 1	l 01 or
	THEATRE 102 or 103 to complete this goal.	
ENGLISH	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257)	2
MUSIC.101 or	Music Listening or Introduction to	3
THEATRE.102/103	Theatre or Theatre Appreciation	
*Goal 8: Second Lan	guage Competency; minimum 2 GEPs; Select one of the two optic	ons.
ASLTERP.155	American Sign Language 1	2
102	Competency test or any second language 102 level	
*@	ioal 9: Physical Activity & Health; minimum 2 GEPs.	
*(Goal 10: Responsible Citizenship; minimum 2 GEPs.	
	Multicultural Education	1
EDFOUND.406 SPECED.101	Intro to Exceptional Individuals	1

*GEPs for this goal may come from just 1 discipline. **GEPs must come from at least 2 disciplines. ***GEPs must come from at least 3 disciplines.

Additional Notes on the Secondary Education Major:

Admission Packet, for Admission into the Teacher Education Program: due by 60 credits, signed by your Education advisor and submitted to Teacher Education Admission Packets Coordinator. Forms and information available from Education Studies.

- Eligible test scores: After April 2, 2012: PAPA (Pre-service Academic Performance Assessment) www.pa.nesinc.com: Reading, score of 220 Writing, score of 220 Math, score of 220 or Praxis I: Academic Skills Assessment if taken on or before April 2, 2012 (and retakes until April 2, 2014): Reading, score of 172 Writing, score of 173 Mathematics, score of 173
- □ **Cumulative GPA of 3.0, with a C or better** in all professional education and specialization courses.
- **6 credits of college-level math** and **6 credits in English composition and literature**
- □ **Completion of early field experience**: five days/30 hours, non-credit, w/ appropriate diversity in contexts: forms required
- □ **Two recommendations** from Teacher Education faculty: standardized form required
- □ **Professional liability insurance** (available through PSEA, at www.PSEA.org_)
- □ **Tuberculosis Screening** results, from a test taken within the last two years (likely repeated before student teaching).
- □ A resume that follows the sample format: format available from Education Studies
- Criminal checks: Act 34 (Criminal Record Check) Act 151 (Child Abuse History Check) Act 114 FBI Clearance: register at www.pa.cogentid.com_; register under Department of Education; fingerprinting available at BU bookstore. Clearances are valid for 1 year for one year: will need to repeat before student teaching

Student Teaching—Placement Card and Eligibility Packet:

□ **Student Teaching Placement Card**—intent to student teach:

for fall student teaching, due by February

- for spring student teaching, due by September
- □ **Student Teaching Eligibility Packet:** Download checklist and forms from the Student Teaching tab under Student Resources on the College of Education homepage.
- □ **Student Teaching Eligibility Packet is due**, signed by your Education advisor, to the Student Teaching Placement Office:

April 1 for fall student teaching

October 1 for spring student teaching