

To: University Curriculum Committee

From: Department of Chemistry
c/o Dr. Laura Lee

Date: April 19, 2004

Re: Degree Requirements for the B.S.Ed. – Chemistry

The Department of Chemistry is requesting approval to change the 4 credit chemistry elective (300+ level) requirement to 3 credits of CHEM301 Inorganic Chemistry and 1 credit chemistry elective (300+ level) in the B.S.Ed. – Chemistry degree. The addition of this inorganic chemistry courses will fulfill PDE content requirements in inorganic chemistry which cannot be met with existing course requirements for this major. The remaining 1 credit of chemistry elective can be fulfilled in a variety of ways. Either CHEM330 or CHEM499 can be taken for one credit or a student could opt to take a 3 or 4 credit upper level chemistry course if they wish to earn more than 120 hours towards their degree.

Name _____ **Entry Date** _____ **Student ID** _____

A. General Education **52 sh**

	sh	Course	Date	min	Grade
<u>I. Wellness</u>	3 sh	_____	_____	C-	_____

<u>II. Skills</u>		English Composition	3 sh	<u>ENGL100-Composition</u>	
		Mathematics	3 sh	<u>MATH141-Calculus I</u>	C
		Speech	3 sh	_____	C-

III. Content

A. <u>Humanities</u>		Art/Music/Theater	6 sh		
		Literature	3 sh	_____	_____
		Philosophy	3 sh	_____	_____

B. <u>Social Sciences</u>		World History	3 sh		C-
		Poli Sci or Econ.	3 sh	_____	_____
		Psychology	3 sh	<u>PSYC103-Adol. Devel.</u>	C
		Sociol. or Anthropol.	3 sh	_____	_____

C. <u>Natural Sciences</u>	6 sh	<u>BIOL106-Prin of Bio I</u>		C	
		<u>BIOL107-Prin of Bio II</u>		C	

<u>IV. Electives**</u>		Course	Date		Grade
	10 sh				
	3 sh	<u>MATH142-Calculus II</u>		C	
	4 sh	<u>PHYS170-Int Gen Phys I</u>		C	
		_____	_____		

**Must be satisfied in part using Supporting Math and Sciences courses shown in section C below.

V. Additional Overlay Requirements

		Course	Course	
A. Multicultural (MC)	2 courses	<u>Sociology or Anthropology and World History</u>		
B. Information Literacy (IL)	2 courses	<u>EDUC415</u>	<u>EDUC416</u>	_____
C. Writing Emphasis (WE)	3 courses	<u>EDUC415</u>	<u>EDUC416</u>	<u>BIOL107</u>
D. External Experience (EE)	2 units	<u>EDUC415</u>	<u>EDUC416</u>	_____

B. Professional Education 29 sh

Course	sh	Date	min	Grade
EDUC101-Social Foundations of Education	2 sh	_____	C	_____
Sophomore Block				
EDUC205-Education Media I	1 sh	_____	C	_____
EDUC209-Science Methods I	2 sh	_____	C	_____
EDUC212-Classroom Management	2 sh	_____	C	_____
Junior Block				
EDUC311-Education Media II	1 sh	_____	C	_____
EDUC315-Science Methods II	4 sh	_____	C	_____
EDUC317-Educational Psychology	3 sh	_____	C	_____
Student Teaching (both are WE,IL,EE)				
EDUC415-Student Teaching & Practicum I	7 sh	_____	C	_____
EDUC416-Student Teaching & Practicum II	7 sh	_____	C	_____

C. Area of Specialization - Supporting Science and Math Courses 39 sh

I. Chemistry	sh	Date	min	Grade
CHEM120-Principles of Chemistry I	4 sh	_____	C	_____
CHEM121-Principles of Chemistry II	4 sh	_____	C	_____
CHEM220-Organic Chemistry I	4 sh	_____	C	_____
CHEM221-Organic Chemistry II	4 sh	_____	C	_____
CHEM301- Inorganic Chemistry I	3 sh	_____	C	_____
CHEM316-Quantitative Analysis	4 sh	_____	C	_____
CHEM320-Physical Chemistry I	4 sh	_____	C	_____
CHEM410-Biochemistry	4 sh	_____	C	_____
CHEM___ - chemistry elective 300+ level	1 sh	_____	C	_____
II. Supporting Math and Science				
BIOL106-Principles of Biology I	(counted as Gen. Ed.)	_____	C	_____
BIOL107-Principles of Biology II	(counted as Gen. Ed. & WE)	_____	C	_____
MATH141-Calculus I	(counted as Gen. Ed.)	_____	C	_____
MATH142-Calculus II	(counted as Gen. Ed.)	_____	C	_____
PHYS170-Inter. Gen. Physics I	(counted as Gen. Ed.)	_____	C	_____
PHYS171-Inter. Gen. Physics II	4 sh	_____	C	_____
(May substitute PHYS130, PHYS131, and CHEM321 for PHYS170 and PHYS171)				
GEOS1xx-Geoscience Elective (GEOS110 recommended)	3 sh	_____	C	_____

This program meets National Science Teacher Association (NSTA) national certification standards.

IV. Additional Requirements

RECORD OF TASKS REQUIRED FOR GRADUATION AND CERTIFICATION

Task	Date Completed
Stage I: Complete by 45 Semester Hours (Candidacy)	
Achieve required GPA in major and overall (3.0)	
Complete EDUC 101 (Social Foundations) and PSYC 103 (Adolescent Development)	
Satisfy requirements for 6 credits each of English and Math.	
Complete Diversity Plan with Academic Advisor	
Register to take PPST (Praxis I) exams.	
Obtain Liability Insurance via Membership in Professional Organization (4 years)	
Obtain Act 34 and Act 151 (valid for 1 year)	
Get TB clearance at Glennon Infirmary (valid for 2 years)	
Complete and get approval of application for Candidacy	
Stage II: Complete by End of 60 Semester Hours	
Pass PPST (Praxis I) exams	
Complete Sophomore Block (offered only during Spring Semester)	
Complete Reflective Diversity Essay #1 (20 contact hours)	
Complete Field Experiences Reflective Essays (60 additional hours, 20 of which are obtained during Soph. Block)	
Sophomore Portfolio and Interview	
Maintain Act 34 and Act 151 clearances (valid for 1 year)	
Stage III: Remediation Stage: Complete by 75 hours (Consult with Advisor for recommended remediation in order to complete Stages I and II)	
Earn minimum GPA overall and in the major (3.0)	
Obtain TB and Act 34 and 151 clearances for Secondary Junior Block II	
Stage IV: Complete for Student Teaching	
Maintain minimum GPA overall and in the major (3.0)	
Complete Junior Block (offered only during Spring semester)	
Attend student teaching meeting, submit application	
Register to take PRAXIS: <i>Content Knowledge Specialty Test(s)</i>	
Complete pre-student teaching portfolio and interview with school district	
Update Act 34 and Act 151 Clearances and TB test as needed	
Stage V: Complete for Graduation	
Maintain minimum GPA overall and in the major (3.0)	
Complete Diversity Essay #2 (20 additional hours which may be satisfied during student teaching, depending on the placement)	
All PRAXIS tests passed	
Minimum of 120 Semester Hours Earned/Transferred	
All major classes passed with a "C" or better	

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