

**Bachelor of Science in Education - Chemistry  
Suggested Sequence**

1 <sup>st</sup> Semester			cr	2 <sup>nd</sup> Semester			cr
CHEM 111 or 113			4	CHEM 112 or 114			4
MATH 125	Calculus I		3	BIOL 202	Prin. Cell & Molecular Bio		4
ENGL 101	Composition I		3	MATH 126	Calculus II		3
COMM 103	Dig. Instruction Tech. (needed for elec. portfolio)		3	HIST 196	Explorations in US History		3
				PSYC 101	General Psychology		3
Fine Arts course			3				
			<b>16</b>				<b>17</b>
<i>Begin to develop professional portfolio based on the requirements and expectations of the Chem. Ed. Program.</i>				<i>Take PRAXIS I exams during 2<sup>nd</sup> semester. The Writing section can not be taken until completion of ENGL 101.</i>			
3 <sup>rd</sup> Semester			cr	4 <sup>th</sup> Semester			cr
CHEM 231	Organic Chemistry I		4	CHEM 232	Organic Chemistry II		4
PHYS 111	Physics I Lecture		3	PHYS 112	Physics II Lecture		3
PHYS 121	Physics I Lab		1	PHYS 122	Physics II Lab		1
EDSP 102	Educational Psychology		3	EDUC 242	Pre-student Teach. C.E. I		1
ENGL 121	Humanities Literature		3	Dimensions of Wellness course			3
Social Science GMA course			3	Social Science course			3
			<b>17</b>				<b>15</b>

**STEP 1. ADMISSION TO TEACHER CERTIFICATION PROGRAM**

Procedure:

*As soon as the Chem. Ed. major has achieved the below requirements, they should file an application for admission to teacher certification. Majors must be admitted to Step 1 before they can register for any courses in their Professional Education Sequence.*

Requirements for Admission:

- Completion of at least 48 semester hours.
- A minimum grade point average 3.0
- A grade of "C" or better in the following courses: COMM 103, EDSP 102, ENGL 101, ENGL 121.
- A grade of "C" or better for 6 or more hours of college-level mathematics.
- Completion of initial speech and hearing screening tests.
- Clearance on TB test.
- Clearance on ACT 34 (criminal record check, must be done annually, file in May of every year).
- Clearance on ACT 151 (child abuse check, must be done annually, file in May of every year).
- Act 114 FBI Fingerprinting
- Attainment of satisfactory scores on the four components of the PRAXIS I exams (Writing, Math and Reading).
- Proof of Liability Insurance (PSEA membership or private insurance, annual update required)
- Program Department evaluation and approval of student's Professional Portfolio based upon established criteria.
- Satisfactory completion of an essay describing personal goals and reason for wanting to become an educator.
- An affirmative recommendation from the major department advisor.

*If the requirements for "Admission to Teacher Certification" are not met by the end of the student's 4<sup>th</sup> semester or after completing 60 semester hours, the student will not be permitted to continue pursuit of professional education and will be counseled into another major or program of study.*

5 <sup>th</sup> Semester			6 <sup>th</sup> Semester		
		cr			cr
CHEM 341	Physical Chemistry I	4	CHEM 214	Intermediate Inorganic	3
CHEM 343	Physical Chem I Lab	1	CHEM/BIOC	elective	3
CHEM 390	Chemistry Seminar II	1	EDUC 342	Pre-student Teach. C.E. II	1
GEOS 201	Foundations of Geology	4	EDUC 442	School Law	1
EDEX 301	Inclusion in Sec. Ed.	2	ENGL 202	Composition II	3
EDSP 477	Assess. of Stu. Learning	3	Philos./Reg.	Studies course	3
		<b>15</b>			<b>14</b>

## STEP 2. ADMISSION TO STUDENT TEACHING

### Procedure:

*During the 7<sup>th</sup> semester, the student must file an Application for Student Teaching through the department coordinator with the Office of the Associate Dean for Teacher Education.*

### Requirements:

- Completion of all requirements in Admission to Teacher Certification.
- Completion of all of the following required professional education core courses with a minimum grade of "C" in each: EDEX 301, COMM 103, EDSP 102, EDUC 242, EDUC 442, EDUC 342, EDSP 477 and EDUC 451.
- Satisfactory completion of at least 91 semester hours with a cumulative grade point average of 3.0, as required by Act 354. Transfer students with sufficient credits (91) must complete one semester (12 sh minimum) at IUP to establish a GPA.
- Completion of the liberal studies science requirement courses with a minimum grade of "C".
- Attainment of a passing score on the currently required PRAXIS II exams (and other PDE exams required for teaching chemistry, as set annually by the Pennsylvania Secretary of Education).
- An affirmative recommendation from the major department advisor or program coordinator.
- Program Department evaluation and approval of student's Professional Portfolio based upon the chemistry program's established criteria.
- Current clearance on ACT 34 (criminal record check) and Act 151 (child abuse).

7 <sup>th</sup> Semester			8 <sup>th</sup> Semester		
		cr			cr
Biochemistry (BIOC 301 or CHEM 351)		3-4			
CHEM 325	Analytical Chemistry I	4	EDUC 441	Student Teaching	12
CHEM 498	Problems in Chemistry	1			
EDUC 451	Teaching Sci. in Sec. Sch.	3			
EDEX 323	In. of E. L. L. w/Sp. Needs	2			
	Free Elective	0-1			
		<b>14</b>			<b>12</b>

Second writing-intensive course may be taken as a social science course or free elective

**Liberal Studies courses may change, check Undergraduate Catalog for current list.**

Fine Arts Courses: ARHI 101; DANC 102; FIAR 101; MUHI 101; THTR 101

Dimensions of Wellness courses: HPED 143; FDNT 143; NURS 143; FIN 143

Social Science GMA (Global and Multicultural Awareness) courses: ANTH 110, 211; GEOG 103, 104; PLSC 101; RGPL 103

Social Science course (must have different prefix than social science GMA course): ANTH 213; CRIM 101; ECON 101, 121; GEOG 102; JRNL 105; PLSC 111; SOC 151, 231

Phil/Relig. Studies courses: PHIL 100, 101, 122, 221, 223; RLST 100, 110, 250, 290