

BS in the Teaching of Chemistry
Approved by UIC Faculty Senate, March, 2007

Required Prerequisite and Collateral Courses

Courses	Hours
MATH 180—Calculus I ^{ab}	5
MATH 181—Calculus II ^a	5
One of the following sequences in physics (PHYS 141 and 142 recommended):	8–10
PHYS 141—General Physics I (Mechanics) (4) ^{ac}	
PHYS 142—General Physics II (Electricity and Magnetism) (4) ^{ac}	
OR	
PHYS 105—Introductory Physics I—Lecture (4) ^{ad}	
PHYS 106—Introductory Physics I—Laboratory (1) ^{ad}	
PHYS 107—Introductory Physics II—Lecture (4) ^{ad}	
PHYS 108—Introductory Physics II—Laboratory (1) ^{ad}	
CHEM 470—Educational Practice with Seminar I	6
CHEM 471—Educational Practice with Seminar II	6
Total Hours—Required Prerequisite and Collateral Courses	30–32

^a This course is approved for the Analyzing the Natural World General Education category.

^b MATH 180 fulfills the LAS Quantitative Reasoning requirement.

^c PHYS 141 and 142 are recommended.

^d Each of the following pairs will be considered one course in meeting the LAS General Education requirements: PHYS 105/PHYS 106 and PHYS 107/PHYS 108.

Major Requirements

Courses	Hours
One of the following sequences in general and analytical chemistry:	14
CHEM 116—Honors General Chemistry I (5) ^a	
CHEM 118—Honors General Chemistry II (5) ^a	
CHEM 222—Analytical Chemistry (4)	
OR	
CHEM 112—General College Chemistry I (5) ^a	
CHEM 114—General College Chemistry II (5) ^a	
CHEM 222—Analytical Chemistry (4)	
CHEM 232—Organic Chemistry I	4
CHEM 233—Organic Chemistry Laboratory	1
CHEM 234—Organic Chemistry II	4
CHEM 314—Inorganic Chemistry	4
CHEM 340—Physical Chemistry for Biochemists I	3
CHEM 343—Physical Chemistry Laboratory ^b	3
CHEM 344—Physical Chemistry for Biochemists II	3
CHEM 402—Chemical Information Systems	2
CHEM 472—Teaching Methods in Chemistry	2
Total Hours—Major Requirements	40

^a This course is approved for the Analyzing the Natural World General Education category.

^b CHEM 343 fulfills the Writing-in-the-Discipline requirement.

^a This course is approved for the Analyzing the Natural World General Education category.

Additional Requirements for Teacher Certification

Courses	Hours
ED 200—Education Policy Foundations	3
ED 210—The Educative Process	3
ED 330—Curriculum, Instruction, and Evaluation in the Secondary School	4
CIE 414—Middle and High School Literacy	4
SPED 410—Survey of Characteristics of Learners with Disabilities	3
Total Hours—Additional Requirements for Teacher Certification	17

Courses Recommended for Science Teacher Certification

Courses	Hours
One of the following options:	4 or 9
NATS 101—Physical World (4) ^a	
OR	
EAES 107—The Changing Earth (5)	
PHYS 112—Astronomy and the Universe (4) ^a	
One of the following options:	4 or 10
NATS 103—Biological World (4) ^a	
OR	
BIOS 100—Biology of Cells and Organisms (5) ^a	
BIOS 101—Biology of Populations and Communities (5) ^a	
Total Hours—Courses Recommended for Science Teacher Certification	8–19

Note: Although these courses are not required, they are recommended because of the presence of certain topics on the content exam students must pass before being allowed to student teach.

In addition to specified course work in the major field, teacher education students must fulfill certain other course requirements for certification, discussed above. Students must also maintain a minimum cumulative GPA of 2.50/4.00 in all undergraduate courses and in all undergraduate chemistry courses including transferred courses. A GPA of 3.00/4.00 in required education courses, with no grade lower than a C in each of the courses, is also required. A GPA of 2.50/4.00 in undergraduate chemistry courses including transferred courses is also required for registration in the student teaching semester (CHEM 470 and 471).

The teaching certificate is not automatically awarded upon successful completion of certification and degree requirements. Before the certificate is issued, the candidate must file an application for the Illinois teaching certificate in the Council on Teacher Education. The candidate must also pass a series of examinations required by the Illinois State Board of Education. The Basic Skills Tests must be passed prior to applying for candidacy in the Council on Teacher Education. The Content Area Tests must be passed before the candidate is allowed to student teach. The Assessment of Professional Teaching must be passed prior to certification. For more information on application procedures, contact the Council on Teacher Education located in 3015 EPASW. See Council on Teacher Education and Secondary Education Program in the *College of Education* section of the catalog.