

CONCORDIA COLLEGE – MOORHEAD MN
Chemistry Education Major (9-12 teaching license)

**Completion of the following allows students to seek a license
 In Minnesota as a teacher of Science – Chemistry major, Grades 9-12
 Courses fulfill standards for 8710.4750**

11.5 course credits required from the following, plus 8.0 course credits to fulfill Education requirements:

Course Number	Course Name	Concordia Course Credit	Semester Hours
Required Chemistry Courses:			
CHEM 127/128 or CHEM 137/138	General Chemistry I/II or Honors Chemistry I/II	2.0	8 semester hours
CHEM 232	Analytical Chemistry I	1.0	4 semester hours
CHEM 341	Organic Chemistry I	1.0	4 semester hours
CHEM 342	Organic Chemistry II	1.0	4 semester hours
CHEM 351	Physical Chemistry I	1.0	4 semester hours
CHEM 373	Biochemistry I	1.0	4 semester hours
CHEM 403	Senior Seminar I	.25	1 semester hour
CHEM 404	Senior Seminar II	.25	1 semester hour
CHEM _____	One additional course credit in Chemistry	1.0	4 semester hours
Required Mathematics Courses:			
MATH 121	Calculus I	1.0	4 semester hours
Required Physics Courses:			
PHYS 111/112 or PHYS 128/211	General College Physics I/II or Physics for Scientists and Engineers I/II	2.0	8 semester hours
Education Requirements:			
PSYC 212	Educational Psychology	1.0	4 semester hours
EDUC 210	Foundations in K-12 Education	.50	2 semester hours

EDUC 221	Teaching in the Middle School	.50	2 semester hours
EDUC 350	The Art and Science of Teaching	.50	2 semester hours
EDUC 351	Ecology of the Educational Setting	.50	2 semester hours
EDUC 399	Orientation to Student Teaching	0	0 semester hours
EDUC 420	Knowledge, Literacy and Inquiry	.50	2 semester hours
EDUC 425	Education of the Exceptional Child	.50	2 semester hours
EDUC 439	Human Relations	.50	2 semester hours
EDUC 498	Student Teaching	2.50	10 semester hours
Required Methods Courses:			
EDUC 372	Methods for Science	1.0	4 semester hours