

CHEMISTRY MAJOR - SECONDARY EDUCATION

Chemistry Major with a Minor in Secondary Education

Course	Title	Hours
First Year		
Fall		
CHEM 125 & CHEM 201	Introduction to Chemical Structure and Properties and Purification and Separation Lab I	5
EDUC 111	Introduction to Teaching and Learning in a Diverse World	4
INTG 100	Learning Foundations (LF)	4
INTG 105	College Success	1
MATH 119	Calculus I	4
Hours		18
Spring		
CHEM 250 & CHEM 202	Reactions of Nucleophiles and Electrophiles (Reactivity 1) and Purification and Chromatography Lab II	5
Language 111		4
PHYS 105	Physics for the Life Sciences I	4
Elective (INTG requirement)		4
Hours		17
Second Year		
Fall		
EDUC 203	Development, Learning, and Mental Health in Childhood and Adolescence	4
EDUC 213	Clinical Experience for K-12/5-12 Majors	1
Language 112		4
CHEM 251 & CHEM 203	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2) and Synthesis Lab	5
THEO 100	Theological Explorations (TE)	4
Hours		18
Spring		
CHEM 255 & CHEM 205	Macroscopic Chemical Analysis and Chemical Measurement Lab	5
Elective (INTG Requirement)		4
CHEM 300-level Elective		2
CHEM 349	Chemistry in Experience and Practice	1
Language 211		4
EDUC 305	Human Exceptionalities: School, Home, and Community	1
Hours		17
Third Year		
Fall		
CHEM 315	Advanced Reactions (Reactivity 3)	4
CHEM 304	Analytical Method Development and Validation Laboratory	1
EDUC 355	Pedagogy in Grades 9-12 (fall only)	4
EDUC 352	Teaching Reading in the Middle/Secondary Classroom	1
EDUC 379A	Educational Psychology: Myths Versus Science	4
CHEM 300-level elective		2
Hours		16
Spring		
CHEM 306 Lab		1
CHEM 300-level Electives		4
EDUC 390	Ethics in Human Relations	4
Theological Integrations (TI)		4

Elective (INTG Requirement)		4
Hours		17
Fourth Year		
Fall		
PHYS 106	Physics for the Life Sciences II	4
INTG 300	Learning Integrations	4
CHEM 300-level Electives		6
Hours		14
Spring		
Student Teaching		
CHEM 360	Junior/Senior Capstone Research	2
Hours		18
Total Hours		135