

First Year							
Fall Term				Spring Term			
Course	Course Number	Course Group/Description	Required Credit Hours	Course	Course Number	Course Group/Description	Required Credit Hours
ENGL	1301	Rhetoric and Composition	3	ENGL	1302	Research and Argument	3
CHEM	1311/1111	General Chemistry I / Lab	4	CHEM	1312/1112	General Chemistry II / Lab	4
HIST	1301	United States History I	3	HIST	1302	United States History II	3
		Core SPCH	3	MATH	2313/2113	Calculus I / Lab	4
		Core CA	3			Core S / BS	3
JTCH	1101	Step 1: Inquiry Approaches to Teaching	1	JTCH	1102	Step 2: Inquiry-Based Lesson Design	1
Total Semester Hours			17	Total Semester Hours			18
Second Year							
Fall Term				Spring Term			
Course	Course Number	Course Group/Description	Required Credit Hours	Course	Course Number	Course Group/Description	Required Credit Hours
CHEM	3331/3131	Organic Chemistry I / Lab	4	CHEM	3332/3131	Organic Chemistry II / Lab	4
MATH	2314/2114	Calculus II / Lab	4	ENGL	2311	Technical and Scientific Writing	3
GOVT	2305	Federal Government	3	GOVT	2306	Texas Government	3
PHYS	1301/1101	Mechanics and Heat / Lab	4			Core LPC	3
CHEM	2175	Introduction to Research	1	JTCH	3301	Knowing and Learning in Math and Science	3
Total Semester Hours			16	Total Semester Hours			16
Third Year							
Fall Term				Spring Term			
Course	Course Number	Course Group/Description	Required Credit Hours	Course	Course Number	Course Group/Description	Required Credit Hours
CHEM	3311	Inorganic Chemistry	3	CHEM	3421/3021	Quantitative Analysis	4
CHEM	4352/4152	Comprehensive Biochemistry I / Lab	4	CHEM	4175	Special Problems (Advanced Research)	1
		Advanced Chemistry Elective	3	PHYS	1302/1102	Electricity, Light and	3
		Computer Science Course	3	JTCH	3311	Classroom Interactions	3
JTCH	3361	Perspectives on Science	3	JTCH	4351	Research Methods	3
Total Semester Hours			16	Total Semester Hours			14
Fourth Year							
Fall Term				Spring Term			
Course	Course Number	Course Group/Description	Required Credit Hours	Course	Course Number	Course Group/Description	Required Credit Hours
CHEM	3437/3037	Physical Chemistry I	4	CHEM	4170	Seminar	1
CHEM	4443/4043	Instrumental Analysis	4	JTCH	4901	Apprentice Teaching	9
CHEM	4381	Laboratory Internship	3				
JTCH	4301	Project Based Instruction	3				
Total Semester Hours			14	Total Semester Hours			10
Total Hours for Degree							121