




Name:			CHEMISTRY COURSEWORK					
SID #:			Chemistry Bachelor of Science					
BREADTH REQUIREMENTS			CHEM Core Requirement Lower-Div			CHEMISTRY		
			Entire major GPA must completed with at least a 2.00 GPA			Upper-Division Coursework		
<u>Common Breadth Courses</u>			<u>Course Offerings</u>			<u>Course Offerings</u>		
English (12 units) - Grade of "C" or better is required			Course Name	Units	Completed	Course Name	Units	Grade
Course Name	Units	Completed	CHEM 001A/01LA or 002A/02LA	5		CHEM 110A	4	
ENGL001A	4		CHEM 001B/01LB or 002B/02LB	5		CHEM 110B	4	
ENGL001B	4		CHEM 001C/01LC or 002C/02LC	5		CHEM 111	4	
ENGL001C	4		CHEM 005	5		CHEM 113	4	
HUMANITIES (12 units minimum)			CHEM 008A/08LA	4		CHEM 125	5	
One (1) course from: World History 10, 15, or 20			CHEM 008B/08LB	4		CHEM 150A	4	
			CHEM 008C/08LC	4		CHEM 191	1	
One (1) course in: fine arts, literature, philosophy, or religious studies			PHYS 040A	5		CHEM 140	4	
			PHYS 040B	5		One course chosen from the following:		
One (1) additional humanities course			PHYS 040C	5		CHEM 166 or CHEM 155	4	
			MATH009A	4		BCH 162	4	
SOCIAL SCIENCES (12 units minimum)			MATH009B	4		One course chosen from the following:		
One (1) course in: economics, political science			MATH009C	4		BCH 100	4	
			MATH 010A	4		BCH 110A	4	
One (1) course in: anthropology, psychology, sociology			Two courses chosen from the following:			CHEM 143	4	
			MATH 010B	4		One course chosen from the following:		
One (1) additional social sciences course			MATH 031	5		CHEM 135	4	
			MATH 046	4		CHEM 136	4	
ETHNIC STUDIES (4 units minimum)			Any upper-division courses used for concentration must have C- or better. Refer to catalog to review prerequisite requirements.			CHEM 150B	4	
May count towards addtl humanities or addtl social sciences, but not both						CHEM 197*	4	
BIOLOGICAL SCIENCES (4 units minimum)						CHEM 199*	4	
			Refer to your university catalog year and degree audit for specific course listings and all major requirements.			*May be taken in increments for a total of 4 units		
MATHEMATICS (4 units minimum)								
PHYSICAL SCIENCE (4 units minimum)								
Two additional 4-unit courses from life sciences or physical science								



Name:			CHEMICAL PHYSICS COURSEWORK					
SID #:			Chemistry Bachelor of Science					
BREADTH REQUIREMENTS			CHEM Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA			CHEMICAL PHYSICS Upper-Division Coursework		
<u>Common Breadth Courses</u>			<u>Course Offerings</u>			<u>Course Offerings</u>		
English (12 units) - Grade of "C" or better is required			Course Name	Units	Completed	Course Name	Units	Completed
Course Name	Units	Completed	CHEM 001A/01LA or 002A/02LA	5		CHEM 110A	4	
ENGL001A	4		CHEM 001B/01LB or 002B/02LB	5		CHEM 110B	4	
ENGL001B	4		CHEM 001C/01LC or 002C/02LC	5		CHEM 111	4	
ENGL001C	4		CHEM 005	5		CHEM 113	4	
HUMANITIES (12 units minimum)			CHEM 008A/08LA	4		CHEM 150A	4	
One (1) course from: World History 10, 15, or 20			CHEM 008B/08LB	4		CHEM 191	1	
			CHEM 008C/08LC	4		20 units of upper-division Coursework in upper-division MATH or PHYS (excluding 190 series)		
One (1) course in: fine arts, literature, philosophy, or religious studies			MATH009A	4				
			MATH009B	4				
One (1) additional humanities course			MATH009C	4				
			MATH 010A	4				
SOCIAL SCIENCES (12 units minimum)			MATH 010B	4				
One (1) course in: economics, political science			MATH 046	4				
			Choose one of the following series:					
One (1) course in: anthropology, psychology, sociology			PHYS 041A	8				
			PHYS 041B	8				
One (1) additional social sciences course			PHYS 041C	8				
			or					
ETHNIC STUDIES (4 units minimum)			PHYS 040A	5		CHEM 197 or CHEM 199, with an emphasis on physical chemistry research. 4 additional units of CHEM 197 or 199 can be used to replace 4 units of the 20 units of MATH/PHYS requirement, subject to advisor approval.		
May count towards add'l humanities or add'l social sciences, but not bot			PHYS 040B	5				
			PHYS 040C	5				
BIOLOGICAL SCIENCES (4 units minimum)			PHYS 041C	8				
MATHEMATICS (4 units minimum)			Refer to your university catalog year and degree audit for specific course listings and all major requirements.			Any upper-division courses used for concentration must have C- or better. Refer to catalog to review prerequisite requirements.		
PHYSICAL SCIENCE (4 units minimum)			 					
Two additional 4-unit courses from life sciences or physical science								

Name:			ENVIRONMENTAL CHEMISTRY COURSEWORK					
SID #:			Chemistry Bachelor of Science					
BREADTH REQUIREMENTS			CHEM Core Requirement Lower-Div			ENVIRONMENTAL CHEMISTRY		
Common Breadth Courses			Course Offerings			Upper-Division Coursework		
English (12 units) - Grade of "C" or better is required			Course Name	Units	Completed	Course Name	Units	Grade
Course Name	Units	Completed	CHEM 001A/01LA or 002A/02LA	5		CHEM 110A	4	
ENGL001A	4		CHEM 001B/01LB or 002B/02LB	5		CHEM 110B	4	
ENGL001B	4		CHEM 001C/01LC or 002C/02LC	5		CHEM 111	4	
ENGL001C	4		CHEM 005	5		CHEM 125	5	
HUMANITIES (12 units minimum)			CHEM 008A/08LA	4		CHEM 140	4	
One (1) course from: World History 10, 15, or 20			CHEM 008B/08LB	4		CHEM 135	4	
			CHEM 008C/08LC	4		CHEM 136	4	
One (1) course in: fine arts, literature, philosophy, or religious studies			PHYS 040A	5		CHEM 150A	4	
			PHYS 040B	5		CHEM 191	1	
One (1) additional humanities course			PHYS 040C	5		One course chosen from the following:		
			MATH009A	4		BCH 100	4	
SOCIAL SCIENCES (12 units minimum)			MATH009B	4		BCH 110A	4	
One (1) course in: economics, political science			MATH009C	4		CHEM 143	4	
			MATH 010A	4		One course chosen from the following:		
One (1) course in: anthropology, psychology, sociology			MATH 010B	4		ENSC 104	4	
			MATH 046	4		GEO 137	4	
One (1) additional social sciences course			BIOL 005A	4		Two courses chosen from the following:		
			BIOL 05LA or BIOL 020	4		CHEM 150B	4	
ETHNIC STUDIES (4 units minimum)						CHEM 155	4	
May count towards add'l humanities or add'l social sciences, but not both						CHEM 166	4	
BIOLOGICAL SCIENCES (4 units minimum)			Any upper-division courses used for concentration must have C- or better. Refer to catalog to review prerequisite requirements.			CHEM 113	4	
MATHEMATICS (4 units minimum)						CHEM 197 or CHEM 199	4	
PHYSICAL SCIENCE (4 units minimum)			Refer to your university catalog year and degree audit for specific course listings and all major requirements.			ENSC 100	4	
Two additional 4-unit courses from life sciences or physical science						ENSC 101	4	
						ENSC 102	4	
						ENSC 140	4	
						ENSC 163	4	
						ENTX 101	4	
						GEO 132	4	
						GEO 157	4	
			ENTX 101	4				
			GEO 132	4				
			GEO 157	4				

Name:			CHEMISTRY EDUC FOCUS COURSEWORK					
SID #:			Chemistry Bachelor of Science					
BREADTH REQUIREMENTS			CHEM Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA		CHEMISTRY EDUCATION FOCUS Upper-Division Coursework			
<u>Common Breadth Courses</u>			<u>Course Offerings</u>		<u>Course Offerings</u>			
English (12 units) - Grade of "C" or better is required			Course Name	Units	Completed	Course Name	Units	Grade
Course Name	Units	Completed	CHEM 001A/01LA or 002A/02LA	5		CHEM 110A	4	
ENGL001A	4		CHEM 001B/01LB or 002B/02LB	5		CHEM 110B	4	
ENGL001B	4		CHEM 001C/01LCB or 002C/02LC	5		CHEM 111	4	
ENGL001C	4		CHEM 005	5		CHEM 113	4	
HUMANITIES (12 units minimum)			CHEM 008A/08LA	4		CHEM 125	5	
One (1) course from: World History 10, 15, or 20			CHEM 008B/08LB	4		CHEM 150A	4	
			CHEM 008C/08LC	4		CHEM 191	1	
One (1) course in: fine arts, literature, philosophy, or religious studies			PHYS 040A	5		CHEM 140	4	
			PHYS 040B	5		EDUC 105	4	
One (1) additional humanities course			PHYS 040C	5		EDUC 102	4	
			MATH009A	4		One course chosen from the following:		
SOCIAL SCIENCES (12 units minimum)			MATH009B	4		EDUC 132	4	
One (1) course in: economics, political science			MATH009C	4		EDUC 137	4	
			MATH 010A	4		One course chosen from the following:		
One (1) course in: anthropology, psychology, sociology			EDUC 003	4		CHEM 166	4	
			Two courses chosen from the following:			CHEM 155	4	
One (1) additional social sciences course			MATH 010B	4		BCH 162	4	
			MATH 031	5		One course chosen from the following:		
ETHNIC STUDIES (4 units minimum)			MATH 046	4		BCH 100	4	
May count towards add'l humanities or add'l social sciences, but not both			Any upper-division courses used for concentration must have C- or better. Refer to catalog to review prerequisite requirements.			BCH 110A	4	
BIOLOGICAL SCIENCES (4 units minimum)						One course chosen from the following:		
			Refer to your university catalog year and degree audit for specific course listings and all major requirements.			CHEM 143	4	
MATHEMATICS (4 units minimum)						CHEM 135	4	
						CHEM 136	4	
PHYSICAL SCIENCE (4 units minimum)			*May be taken in increments for a total of 4 units			CHEM 150B	4	
						CHEM 197*	4	
						CHEM 199*	4	
Two additional 4-unit courses from life sciences or physical science			