

CHEMISTRY SAMPLE PROGRAMS

ACS CHEMISTRY TEACHING (PCHT) - B.S. Major On track starting freshman year

Satisfies	Fall Semester	SH	Satisfies	Spring semester	SH
Year 1					
GE-gl 3	CHEM 212 Principles of Chemistry I	4	GE-gl 3	CHEM 213 Principles of Chemistry II	4
GE-gl 4	MATH 212 Calculus I	4		MATH 213 Calculus II	4
GE-gl 1	ENG 111 College Reading and Writing	4	GE-gl 1	CMST 191 Intro. to Public Speaking	3
gl 5-9	Gen Ed.	3	GE-PDW	HERS 204 Personal and Community Health	3
	Orientation	1			
		16			14
Year 2					
GE-OI	CHEM 360 - Chemical Information	2		CHEM 340	4
	CHEM 425 - Analytical Chemistry I	4		CHEM 460 - Research Proposal	1
	PHYS 221 Univ. Physics or PHYS 201 (Gen. Phy)	4		PHYS 222 (Univ. Phys II) or PHYS 202 (Gen. Phy II)	4
gl 5	SPED 300 - Education of Exceptional Youth	3		EFRT 401 - Human Development/Learning: Secondary	2
gl 5-9	Gen Ed.	3		EFRT 461 Multicultural Youth, Children, & Families	2
	best if you apply for spring admission in Year 2		gl 5-9	Gen. Ed.	3
Before admission to Teacher Education Program:					
	Take PPST (pre-professional skills test)				
	Evidence of having passed the Education Department Writing Proficiency Exam				
		16			16
Year 3					
	CHEM 311 -Science Teaching Methods	3		CHEM 312-Practical Considerations of Teaching Science	2
gl 10	CHEM 320 - Environmental Chemistry	4		CHEM 461 - Research (or CHEM 430)	2
	CHEM 412 -Physical Chemistry I	3		CHEM 475 - Seminar in Chemistry	1
	CHEM 413 -Physical Chemistry I Laboratory	1		EFRT 449- Middle Level Philosophy, Org & Inter Planning	3
	EFRT 421 - Classroom Management: K-12 & 5-12	1		EDUC 429 - Secondary Reading/Teaching	4
	EFRT 441- Curriculum, instruction, & Assessment	3	gl 5-9	Gen. Ed.	3
		12			15
Year 4					
	CHEM 405 - Biochemistry I	3		EDST 465 - Student Teaching	12
GE-WI	CHEM 406- Biochemistry I Laboratory	1			
	CHEM 450-Advanced Organic	4			
gl 5-9	Gen. Ed.	3			
GE-WI	EFRT 459 Professional Educator	3			
	EFRT 462- Multicultural Youth, Children,& Families	1			
		15			12
Other requirements:					
	Pass Praxis I Exam				
	Pass Praxis II - PLT Exam			Total Credits:	116
	Pass Praxis II - Chemistry Content Exam				
	Students are encouraged to obtain dual licensure.				
	Suggestions include middle school science or PPST.				

CHEM 350 (4 cr) and CHEM 351 (5 cr) may be taken instead of CHEM 340

EFRT 401 and 461 must be taken concurrently

EFRT 421 and 441 must be taken concurrently

EFRT 459 and 462 must be taken concurrently