

## CHEMISTRY SAMPLE PROGRAMS

### ACS MATERIALS CHEMISTRY (CHMC) - B.S. Major

On track starting freshman year

	Fall Semester	SH		Satisfies	Spring semester
<b>Year 1</b>					
GE-gl 3	CHEM 212 Principles of Chemistry I	4		GE-gl 3	CHEM 213 Principles of Chemistry II
GE-gl 4	MATH 120 (Precalculus) or 212 (Calculus I)	4			MATH 212 (Calculus I) or 213 (Calculus II)
GE-gl 1	ENG 111 College Reading and Writing	4		GE-gl 1	CMST 191 Intro. to Public Speaking
gl 5-10	Gen. Ed.	3		(gl 5-10)	PHYS 221 or Gen. Ed.
	Orientation	1		GE-PDW	PE
		<b>16</b>			
<b>Year 2</b>					
	CHEM 350 Principles of Organic Chem I	4			CHEM 351 Principles of Organic Chem II
GE- OI	CHEM 360 Chemical Information	2			MATH 313 Differential Equations
	PHYS 221 Univ. Physics I	4			MATH 314 Linear Algebra for Differential Eq
(gl 5-10)	MATH 213 (Calculus II) or Gen. Ed.	3-4		GE-WI	CME 285 Properties of Materials
gl 5-10	Gen. Ed.	1-3		gl 5-10	PHYS 222 or Gen.Ed.
		<b>14-17</b>			
<b>Year 3</b>					
GE-CAI	CHEM 412 Physical Chemistry I	3		GE-CAI	CHEM 414 Physical Chemistry
GE-WI	CHEM 413 Physical Chemistry I Lab	1		GE-WI	CHEM 414 Physical Chemistry II Lab
	CHEM 425 Analytical Chemistry I or 450*	4		GE-WI	CHEM 426 Analytical Chemistry II or 451*
	CHEM 410 Polymer Chemistry	3			CHEM 411 Syn and Char of Materials* or
gl 5-10	Gen. Ed.	3		GE-WI	CME 394 Polymer Science & Characterization
gl 5-10	Gen. Ed.	3			CHEM or MATH elective
		<b>17</b>			
<b>Year 4</b>					
	CHEM 405 Biochemistry I	3		GE-OI	CHEM 475 Seminar in Chemistry
GE-WI	CHEM 406 Biochemistry I Laboratory	1			CHEM 411 Syn & Char of Materials* or
	CHEM 450 Adv Inorganic Chemistry or 425	4			CME 394 Polymer Science & Characterizataion
	CHEM or MATH elective	2-4			CHEM 426
	Gen. Ed.	3			CHEM or MATH elective
gl 5-10	Gen. Ed.	3		gl 5-10	Gen. Ed.
				GE-PDW	PE
		<b>16-17</b>			
* CHEM 411 is offered Springs of <u>odd</u> -numbered years only					

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*CHEM 451 is offered Springs of <u>even</u> -numbered years only			
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<b>SH</b>
4
4
3
3-4
1
<b>15-16</b>
5
3
1
4
3-4
<b>16-17</b>
3
2
2-4
3
2-3
<b>12-15</b>
1
3
4
2-3
2-3
1
<b>13-15</b>

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