

CHEM-BIOC Curriculum Map

CHEM Course #	Learning Goals Addressed: Where and How 2/4/10											
	1* (a) *	2 (b)	3 (c)	4 (d)	5 (e)	6 (f)						
103/104	X	AECDFLR	X	CGLR					X	ACGLR	X	CGLR
111/112	X	AES										
111/112H	X	ACEFG	X	AEF					X	A		
115	X	AEG							X	LR	X	L
115H	X	AEG							X	LR	X	L
120	X	ACEL			X	L			X	CL	X	AEL
120H	X	AE							X	LR	X	L
220/221	X	AEFGLR	X	AEFGLR			X	AEO	X	ACGL	X	ACEGLR
321/322	X	AEFLR	X	AEFLR					X	LR	X	LR
331/332	X	AEF	X	AEF	X	AF			X	A		
333/334	X	AEFLR	X	AEFLR	X	LR			X	LR	X	LR
334H	X	EFLOR	X	EFLOR	X	LR	X	L	X	LR	X	LR
342	X	AEFR					X	AR	X			
410	X	AFOR			X	EOR						
418/419	X	AE	X	AE								
437	X	AE									X	AE
438	X	LR	X	CLR					X	CLR	X	CLR
443/444	X	AE	X	AE	X	AE	X	AE	X	ACR		
444H	X	AE	X	AE								
445/446	X	CEGLR	X	ELR	X	ELR	X	R	X	LR	X	LR
446H	X	CEGLR	X	ELR	X	ELR	X	R	X	LR	X	LR
457	X	AE	X	AE								
458	X	LR	X	LR							X	LR
458H	X	LR	X	LR			X	R			X	LR
465(F)							X	AFOR				
465(S)							X	FO				
U460	X	AF										
527	X	AE					X	AE	X	A		
601	X	AF										
603	X	AE	X	AELR					X	AELR	X	EL
620	X	AEOR	X	AEOR	X	OR	X	EOR				
621	X	ACEFGOR					X	FGO	X	GO		
622	X	ACEFR			X	FR	X	R	X	AE		
623	X	ACEFR			X	FR	X	ACE	X	ACE		
624	X	AE	X	AE	X	AER	X	AER				
633	X	AE					X	AE	X	A		
634	X	AE			X	A			X	A		
635	X	AEFO	X	AFO	X	AFO	X	AEFO	X	AFO		
641	X	ES										
642	x	AES	x	AES	x	AES	x	AES				
643	X	AEFR					X	AR				
645	X	ACE			X	AOR	X	OR	X	ACG		
646	X	E	X	E	X	E	X	E				
649	X	AEOR			X	AEOR	X	AEOR	X	AEOR		
651	X	AEO			X	R	X	OR				
652	X	AE			X	AFR	X	AFR				
653	X	AE			X	O	X	AO				
654	X	AE	X	AE								
671	X	AE	X	AE								
672	X	AE	X	AE					X	AE		
674	X	AE	X	AE								
677	X	AE	X	AE								
		<b>1 (a)</b>	<b>2 (b)</b>	<b>3 (c)</b>	<b>4 (d)</b>	<b>5 (e)</b>	<b>6 (f)</b>					

CHEM-BIOC Curriculum Map

												CHEM	
8 (g1)	8 (g2)	10 (h1)		10 (h2)		9 (i)		7 (j)		Year taken	Course #		
X	AD	X	GLR	X	CGLR			X	E	X	ELS	1	103/104
												1	111/112
X	AGF			X	AF	X	AFG					1	111/112H
X	A	X	LR	X	R					X	LS	1	115
X	A	X	LR	X	R					X	LS	1	115H
		X	L					X	L	X	L	1	120
X	A	X	LR	X	R			X	F	X	LS	1	120H
X	AFG	X	FGL	X	FGLR			X	AEF	X	AFL	2	220/221
		X	LR	X	LR			X	F	X	FL	2	321/322
X								X	F			2	331/332
		X	L	X	LR			X	FL	X	FL	2	333/334
		X	L	X	LR	X	LO	X	FL	X	FL	2	334H
X	FG			X	AR			X	A			2	342
				X	FR	X	O	X	EOR			3	410
												3	418/419
												3	437
		X	LR	X	LR			X	L	X	L	3	438
				X	ACR							3	443/444
												3	444H
		X	LR	X	LR			X	F	X	EFLR	3	445/446
		X	LR	X	LR					X	ELR	3	446H
												3	457
		X	LR			X	R			X	L	3	458
				X	R	X	O			X	L	3	458H
X	AFGO			X	AFGR	X	AFGO	X	A			4	465(F)
						X	FO					4	465(S)
X	AF							X	AF			4	U460
												3	527
X	AF							X	AF			5	601
				X	R					X	L	4	603
				X	R	x	O					4	620
X	GO			X	G	X	GO					4	621
				X	CFR			X	FR			4	622
				X	ACF			X	FR			4	623
												4	624
												4	633
												4	634
X	AFO			X	AF	X	FO	X	F			4	635
												3	641
												3	642
X	G			X								4	643
X	AO	X	AC	X	AER	X	O	X	GOR			4	645
						X	O					4	646
				X	AEOR	X	O					4	649
				X	R					X	AE	4	651
				X	AFR							4	652
						X	O					4	653
												4	654
												4	671
												4	672
												4	674
												4	677
<b>8 (g1)</b>	<b>8 (g2)</b>	<b>10 (h1)</b>		<b>10 (h2)</b>		<b>9 (i)</b>		<b>7 (j)</b>		<b>Year Taken</b>			

CHEM-BIOC Curriculum Map

<b>Learning Goals: Graduates will have demonstrated the following:</b>		
<b>1*</b>	<b>a*</b>	Ability to apply major concepts, theoretical principles and experimental findings to solve problems
<b>2</b>	<b>b</b>	Ability to employ appropriate research methods to collect, analyze, and interpret data in solving problems
<b>3</b>	<b>c</b>	Ability to conduct a literature review to identify a research problem and plan a solution
<b>4</b>	<b>d</b>	Ability to critically evaluate others' technical methods, data and conclusions
<b>5</b>	<b>e</b>	Ability to use computers for chemical computations, data acquisition and data base searching
<b>6</b>	<b>f</b>	Ability to use instrumentation for chemical analysis and characterization
<b>8</b>	<b>g1</b>	Ability to work effectively in teams in class
<b>8</b>	<b>g2</b>	Ability to work effectively in teams in lab
<b>10</b>	<b>h1</b>	Ability to present written reports of technical information clearly and concisely
<b>10</b>	<b>h2</b>	Ability to present oral reports of technical information clearly and concisely
<b>9</b>	<b>i</b>	An appreciation of the importance and practice of scientific ethics
<b>7</b>	<b>j</b>	An awareness of best practices for chemical safety and hygiene
* <b>Posted departmental goals</b> are numbered and indicated in <b>red</b>		
* Letters in <b>black</b> correspond to items on the <b>senior seminar survey</b>		
<b>Assessment Methods Used</b>		
<b>A</b>	class assignment/problem set/homework	
<b>C</b>	computational program, analysis	
<b>D</b>	clickers	
<b>E</b>	course exam/test question	
<b>F</b>	formative feedback (comments, drafts, peer review)	
<b>G</b>	group product/project	
<b>L</b>	lab experiment	
<b>O</b>	oral report/presentation	
<b>P</b>	poster, abstract	
<b>R</b>	written product (lab report, proposal, paper)	
<b>S</b>	standardized test	