COURSE #	SLO	FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018
CHEM	Demonstrate a working knowledge of the language of orga	anic						+
102	1 chemistry and biological chemistry							
	, , ,							+
	Employ concepts of organic functional groups to predict b	oth						
	2 chemical and physical properties of organic molecules							
	Apply the concept of structure and function to predict the	!						_
	3 properties and behavior of biomolecules							
	Employ laboratory techniques to collect, analyze and eval	luate						-
	4 experimental data							
CHEM	Demonstrate a working knowledge of the language of							1
110	1 chemistry.							
	Read and evaluate chemistry in scientific journals designed	d for						+
	2 the general population.							
	Analyze periodic trends to predict physical and chemical							+
	3 properties of compounds and elements.							
								1
СНЕМ	Demonstrate a working knowledge of the language of							1
113	1 chemistry.	ASP			X			
	2 Apply quantitative reasoning to chemical problems	ASP			X			+
	Apply a laws and theories to explain and predict the	7.51			/			+
	3 properties of atoms and molecules.	ASP			X			
	Employ laboratory equipment and techniques to collect,							+
	4 organize and evaluate experimental data.	ASP			X			
СНЕМ	Demonstrate a working knowledge of the language of							
115	1 chemistry.	ASP				X		
	2 Apply quantitative reasoning to chemical problems	ASP				X		+
	Apply a laws and theories to explain and predict the	, .51						+
	3 properties of atoms and molecules	ASP				X		
	Employ laboratory equipment and techniques to collect,							1
	4 organize and evaluate experimental data.	ASP				X		

COURSE # SL	0	FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018
CHEM		TA 2013	3pi 2010	1 / 2010	3pi 2017	TA 2017	3pi 2016	1 7 2010
115T	Demonstrate a working knowledge of the language of 1 chemistry.						x	
1131	2 Apply quantitative reasoning to chemical problems						X	
	Apply a laws and theories to explain and predict the						^	
	3 properties of atoms and molecules						X	
	Employ laboratory equipment and techniques to collect,							
	4 organize and evaluate experimental data.						X	
CHEM	Demonstrate a working knowledge of the language of organic							
116	1 and biochemistry.	ASP					X	
	Employ the concept of organic functional groups to predict							
	2 both chemical and physical properties of an organic molecule.	ASP					X	
	Apply the concept of structure and function to predict							
	3 properties of biomolecules.	ASP		_			X	
CHEM	Demonstrate a working knowledge of the language of organic							
116T	1 and biochemistry.							
	Employ the concept of organic functional groups to predict							
	2 both chemical and physical properties of an organic molecule.							
	Apply the concept of structure and function to predict							
	3 properties of biomolecules.		-	+				_
CHEM	Demonstrate a working knowledge of the language of							
120	1 chemistry.		AAR					X
	2 Apply quantitative reasoning to chemical problems.		AAR					X
	Apply laws and theories to explain and predict the							
	3 properties of atoms and molecules.		AAR					Х
	Employ laboratory equipment and techniques to collect,							
	4 organize, and evaluate experimental data.		AAR					X

COURSE # S	SLO	FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018
CHEM	Demonstrate a working knowledge of the language of							
120T	1 chemistry.							X
	2 Apply quantitative reasoning to chemical problems.							X
	Apply laws and theories to explain and predict the							
	3 properties of atoms and molecules.							X
	Employ laboratory equipment and techniques to collect,							
	4 organize, and evaluate experimental data.							X
CHEM	Demonstrate a working knowledge of the language of							
141	1 chemistry.	ASP		X				
	2 Apply quantitative reasoning to chemical problems	ASP		Χ				
	Apply a laws and theories to explain and predict the							
	3 properties of atoms and molecules.	ASP		X				
	Employ laboratory equipment and techniques to collect,							
4	4 organize and evaluate experimental data.	ASP		X				
CHEM	Demonstrate a working knowledge of the language of							
141T	1 chemistry.			X				
	2 Apply quantitative reasoning to chemical problems			Χ				
	Apply a laws and theories to explain and predict the							
	3 properties of atoms and molecules.			X				
	Employ laboratory equipment and techniques to collect,							
	4 organize and evaluate experimental data.			Х				
CHEM	Demonstrate a working knowledge of the language of							
142	1 chemistry.	ASP	X	X				
	2 Apply quantitative reasoning to chemical problems	ASP	Х	Χ				
	Apply a laws and theories to explain and predict the							
	3 properties of atoms and molecules.	ASP	X	X				
	Employ laboratory equipment and techniques to collect,							
	4 organize and evaluate experimental data.	ASP	X	X				

COURSE # SLO		FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018
CHEM	Demonstrate a working knowledge of the language of							
142T	1 chemistry.				X			
	2 Apply quantitative reasoning to chemical problems				X			
	Apply a laws and theories to explain and predict the							
	3 properties of atoms and molecules.				X			
	Employ laboratory equipment and techniques to collect, 4 organize and evaluate experimental data.				V			
	4 organize and evaluate experimental data.				X			
	Students will be able to identify, examine, and assess a							
CHEM	component of the discipline in a study of individualized							
199	1 content							
CHEM	Demonstrate a working knowledge of the language of							
231	1 organic chemistry.	ASP						
	Recognize the major functional groups of organic							
	2 compounds.	ASP						
	Predict the major products of chemical reactions of							
	3 representative organic functional groups.	ASP						
	Apply a theoretical approach to explain the chemical							
	4 and physical behavior of organic compounds.	ASP						
	Employ laboratory equipment and techniques to collect,							
	5 analyze and evaluate experimental data.	ASP						
	analyze and evaluate experimental data.	7.51						
CHEM	Demonstrate a working knowledge of the language of							
231T	1 organic chemistry.							
	Recognize the major functional groups of organic							
	2 compounds.							
	Predict the major products of chemical reactions of							
	3 representative organic functional groups.							
	Apply a theoretical approach to explain the share issue							
	Apply a theoretical approach to explain the chemical							
	4 and physical behavior of organic compounds.							

COURSE #	SLO		FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018
		Employ laboratory equipment and techniques to collect,							
	5	analyze and evaluate experimental data.							
CHEM		Demonstrate a working knowledge of the language of							
232	1	organic chemistry.	ASP						
		Recognize the major functional groups of organic							
	2	compounds.	ASP						
		Predict the major products of chemical reactions of							
	3	representative organic functional groups.	ASP						
		Apply a theoretical approach to explain the chemical							
	4	and physical behavior of organic compounds.	ASP						
		Employ laboratory equipment and techniques to collect,							
	5	analyze and evaluate experimental data.	ASP						
CHEM		Demonstrate a working knowledge of the language of							
232T	1	organic chemistry.							
2321	1	Recognize the major functional groups of organic							
	,	compounds.							
		Predict the major products of chemical reactions of							
	2	representative organic functional groups.							
		representative organic ranctional groups.			+				
		Apply a theoretical approach to explain the chemical							
	4	and physical behavior of organic compounds.							
		Employ laboratory equipment and techniques to collect,							
	5	analyze and evaluate experimental data.							
		·							
		299A: Students will be able to define and analyze							
CHEM		components of the discipline within a specialized topic							
299	1	of the discipline.							

COURSE #	SLO		FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018
		299B: Students will be able to define, analyze, and synthesize components of the discipline within a specialized topic of the discipline.							

Spr 2019	FA 2019	Spr 2020	FA 2020	Spr 2021
Spr 2019	FA 2019	Spr 2020	FA 2020	Spr 2021
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Spr 2019	FA 2019	Spr 2020	FA 2020	Spr 2021
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Spr 2019	FA 2019	Spr 2020	FA 2020	Spr 2021
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			X	
			X	
			X	
			X	
			X	
				X
				X
				X
				X
				^
				X

Spr 2019	FA 2019	Spr 2020	FA 2020	Spr 2021