Student Learning Outcome	Academic Year					
	AY 18-19	AY 19-20	AY 20-21	AY 21-22	AY 22-23	AY 23-24
SLO 1. Students will compare, contrast and predict physical and chemical properties based on atomic and molecular structure. Students will apply these principles to the chemistry of living systems and demonstrate the ability to solve quantitative, interdisciplinary, and/or real-world problems.	CHM 34X0L laboratory reports		CHM 3280 exam	CHM 3150 ACS standardized final exam	CHM 3520L embedded exam questions, MFT test	
SLO 2. Students will be able to design and execute an experimental procedure, work independently, interpret experimental results, and draw a reasonable, accurate conclusion. Students will synthesize, isolate, purify and/or characterize compounds using					CHM 3040/3050 exam or CHM 3110/3120 exam	
modern methods and/or instrumental techniques.						
SLO 3. Students will observe safe practices in the laboratory and will know how to respond in an emergency. Students will learn to gather hazardous materials information and will recognize and respond properly to potential hazards of handling chemicals and chemical waste.	CHM 34X0L laboratory reports		CHM 3270L sample lab report	CHM 3150L sample laboratory reports		
			CHM 3270L/3280L sample lab report			
SLO 4. Students will use computer technology to gather, process, analyze, and present chemical data, and communicate critical analysis of scientific information through written reports, laboratory notebooks, and oral presentations.	CHM 34X0L laboratory reports	CHM 2910A oral presentation			CHM 3520L research report	CHM 3420L and CHM 3430L lab reports
SLO 5. Students will use chemical literature and computer resources to gather research information.						CHM 4630, CHM 2910A
					CHM 3520L research report	
SLO 6. Students will demonstrate the ability to function as practicing chemists, through activities such as undergraduate research, Senior Project and Co-op. Through coursework and laboratory experiences, students will work successfully both independently and as part of a team.	CHM 3520L research report, Exit survey for graduating senior			CHM 42x0L lab reports	CHM 3420L and CHM 3430L lab reports	
SLO 7. Students will benefit from faculty mentoring and academic advising. Through organizations and activities such as the SMACS Chemistry Club, alumni panels, seminars, and Professor for a Day, students will explore career opportunities and participate in career and graduate school planning.	Exit survey for graduating seniors	Exit survey for graduating seniors	Exit survey for graduating seniors	Exit survey for graduating seniors	Exit survey for graduating seniors	Exit survey for graduating seniors