

Program-Level Student Learning Outcomes for Chemistry

A student who completes the B.S. in Chemistry at CMU will be able to:

1. Demonstrate fluency in the concepts from the major fields of chemistry (inorganic, organic, physical, and analytical...)
2. Utilize mathematics to solve chemical problems.
3. Employ proper experimental techniques.
4. Interpret chemical information from peer-reviewed publications.
5. Communicate chemical topics effectively, both verbally and in writing.

A matrix linking program-level student learning outcomes with each chemistry course is shown below.

Chemistry Program-Level Student Learning Outcomes by Course

Course	SLO 1 (Knowledge)	SLO 2 (Computation)	SLO 3 (Laboratory)	SLO 4 (Literature)	SLO 5 (Communication)
100	X				
121	X	X			
121L	X	X	X		
122	X				
122L	X	X	X		
123	X	X			
131	X	X			
131L	X	X	X		
132	X	X			
132L	X	X	X		
151*					
151L*					
211*	X	X			
211L*	X	X	X		X
300	X	X			
301	X	X			
301L	X	X	X		X
311	X				
311L	X	X	X		X
312	X				
312L	X	X	X	X	X
315	X				
315L	X	X	X	X	X
316	X				
321	X	X			
322	X	X			
341	X	X	X	X	X
342*	X	X	X	X	X
351	X	X			X
352	X	X		X	
397	X		X	X	X
411*	X	X			X
412*	X	X		X	
421	X			X	X
422	X			X	X
431	X	X			
431L	X	X	X		X
442	X			X	X
482*					
483*					
487	X	X	X	X	X
494*	X			X	X
497*	X	X	X	X	X

*inactive course