

Alignment Matrix
B.S./B.A. Chemistry Degree

<i>Required Courses</i>	<i>CHM 200</i>	<i>CHM 210</i>	<i>CHM 220</i>	<i>CHM 230</i>	<i>CHM 250</i>	<i>CHM 371</i>	<i>CHM 531</i>	<i>CHM 532</i>	<i>CHM 550</i>	<i>CHM 566</i>	<i>CHM 585</i>	<i>CHM 595</i>	<i>CHM 596</i>	<i>CHM 599</i>	<i>CHM 657</i>	<i>CHM 711</i>	<i>CHM 712</i>
Degree Program SLO's																	
<i>1. an understanding of major concepts, theoretical principles and experimental findings in chemistry.</i>	X	A	A	A	A	A	X	X	X	X	X	X	X	X	X	X	X
<i>2. an ability to work effectively in diverse teams in both classroom and laboratory.</i>		X	A	X	A	X		X					X	X	X	X	A
<i>3. an ability to employ critical thinking and efficient problem-solving skills in the four basic areas of chemistry (analytical, inorganic, organic, physical).</i>		X	X	X	X	X	A	X	A	A	A	A	X	X	X	A	A
<i>4. an ability to conduct experiments, analyze data, and interpret results, while observing responsible and ethical scientific conduct.</i>		X	X	X	X	X		A					X	A	X		
<i>5. effective written and oral communication skills, especially the ability to transmit complex technical information in a clear and concise manner.</i>		X	X	X	X	X	X	X	X	X	X	X	X	A	A	X	X
<i>6. the ability to use modern instrumentation for chemical analysis and separation.</i>		X	X	X	X	A		X					A	X	A		
<i>7. the ability to use computers for chemical simulation and computation.</i>		A	A	X	X	X					X	X		X			
<i>8. the ability to employ modern library search tools (e.g. SciFinder) to locate, retrieve, and evaluate scientific information.</i>	X							X						X	A		
<i>9. a familiarity with, and application of safety and chemical hygiene regulations and practices.</i>	X	X	A	X	X	A	X	A	X	X	X	X	X	X	A	X	X
<i>10. an ability to gain entry into professional schools, graduate programs, or the job market.</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
University SLO's																	
Knowledge		A	A	A	A	A	X	X	X	X	X	X	X	X	X	X	X
Critical Thinking		X	X	X	X	X	A	X	A	A	A	A	X	X	X	A	A
Communication		X	X	X	X	X	X	X	X	X	X	X	X	A	A	X	X
Diversity		X	A	X	A	X	X	X	X	X	X	X	X	X	X	X	A
Integrity		X	X	X	X	X	X	A	X	X	X	X	X	A	X	X	X

"X" for courses in which students have the opportunity to learn the outcome. "A" for courses in which student performance is used for program level assessment of the outcome.