

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>
<u>Degree Program SLO's</u>																	
<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	A	X	X	X
<i>2. an ability to solve problems in an efficient and accurate manner.</i>		A	A	A	A	A	X	X	X	X	X	X	X	A	X	X	X
<i>3. an ability to employ critical thinking and hypothesis-driven methods of scientific inquiry.</i>		A	A	A	A	A	X	X	X	X	X	X	X	A	X	X	X
<i>4. a working knowledge of basic research methodologies, data analysis and interpretation</i>		A	A	A	A	A	X	X	X	X			X	A	X	X	X
<i>5. effective written and oral communication skills, especially the ability to transmit complex technical information in a clear and concise manner.</i>		A	A	A	A	A	X	X	X	X	X	X	X	A	X	X	X
<i>6. the ability to use computers for chemical simulation and computation, data acquisition, and database usage.</i>		A	A	A	A	A		X		X			X	A	X		
<i>7. the ability to use instrumentation for chemical analysis and separation</i>		A	A	A	A	A				X			X	A	X		
<i>8. a familiarity with, and application of local, state and federal safety and chemical hygiene regulations and practices</i>								X		X			X	A	X		
<i>9. an appreciation of the importance and practice of good ethics</i>	X	A	A	A	A	A		X				X	X	A	X		
<i>10. an ability to work effectively in teams in both classroom and laboratory</i>		A	A	A	A	A	X	X	X			X	X	A	X	X	X
<u>University SLO's</u>																	
<i>Knowledge</i>		A	A	A	A	A	X	X	X	X	X	X	X	A	X	X	X
<i>Critical Thinking</i>		A	A	A	A	A	X	X	X	X	X	X	X	A	X	X	X
<i>Communication</i>		X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X
<i>Diversity</i>		X	X	X	X	X		X				X		X	X		
<i>Integrity</i>		X	X	X	X	X	X		X				X	A	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.