

# Chemistry Program Review

## Summary of Standards and Assessments

Standard	Assessment #1 Praxis 1a) Content 1b) PLT	Assessment #2 KPTP Task 2 Unit Plan	Assessment #3 CTE Evaluation Rubric	Assessment #4 KPTP Task 3 Teach/Reflect	Assessment #5 Course Based Grades	Assessment #6 SeniorSeminar Capstone Research Project	Assess-ment #7 End of Program Exam	Assessm ent #8 KPTP Task 4
1) <b>Structure of matter</b>					5B) CH153 Chemistry II			
2) <b>States and properties of matter</b>					5C) CH 261 Organic Chemistry I			
3) <b>Chemical reactions</b>	Sub-score IV - Periodicity & Reactivity; Chemical Reactions; Biochemistry and Organic Chemistry				5D) CH 262 Organic Chemistry II			
4) <b>Help students do scientific inquiry</b>			CTE Rubric Goal 6 – Indicator 4			<b>Senior Seminar Capstone Research Project</b>		
5) <b>Relationships between science and technology</b>	Sub-score VI – History and Nature of Science; Science, Technology, and Social Perspectives		CTE Rubric Goal 6 – Indicator 5		5F) ED406 Natural Science Methods – Technology Plan			
6) <b>Understands human endeavor, nature of science, historical perspective</b>			CTE Rubric Goal 6 – Indicator 6		5A) CH151 Chemistry			
7) <b>Unifying science domains</b>			CTE Rubric Goal 6 - Indicator 7		5E) CH 265 Biochemistry		<b>End of Program Exam</b>	
8) <b>Teach science effectively</b>			CTE Rubric					
9) <b>Integrates science with other disciplines</b>			CTE Rubric Goal 1 – Planning & Preparation Goal 6 - Indicator 9					
10) <b>Relates science to daily life/interests</b>		KPTP Task 2 – Designing Instruction	CTE Rubric Goal 6 - Indicator 10					
11) <b>Variety of assessment methods</b>			Goal 6 - Indicator 11	KPTP Task 3 – Teaching and Learning Focus Area E - ASSESSMENT				
12) <b>Safe learning environment</b>	Sub-score VII – Mathe- matics, Measurement, and Data Management; Laboratory Procedures		CTE Rubric Goal 6 – Indicator 12		5F) ED406 Natural Science Methods – Safety Plan			

<b>13) Ongoing professional practice</b>	and Safety		CTE Rubric Goal 6 – Indicator 13					<b>Assessment #8 KTP Task 4</b>
<b>Praxis subscores: Black = used Test Code 0245</b>	I – Matter and Energy; Heat, Thermodynamics, and Thermochemistry II – Atomic and Nuclear Structure III – Nomenclature; the Mole, Chemical Bonding, and Geometry <b>IV - Periodicity and Reactivity; Chemical Reactions; Biochemistry and Organic Chemistry</b> V – Solutions and Solubility; Acid/Base Chemistry <b>VI – History and Nature of Science; Science, Technology, and Social Perspectives</b> <b>VII – Mathematics, Measurement, and Data Management; Laboratory Procedures and Safety</b>							