Chemistry Pathway, AS

Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment										
	ENG101	ENG102	CHM151	CHM152	MAT221	MAT231	MAT241	CHM235	CHM236	PHY121	PHY122
1. Construct qualitative and quantitative models to draw conclusions concerning physical and chemical phenomena.	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
2. Using a fundamental understanding of scientific inquiry, solve problems within the discipline of chemistry.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. Design experiments and collect data, using appropriate technology and equipment.			✓	✓	✓	✓		✓	✓	✓	✓
4. Analyze and interpret data, using technology as appropriate.			✓	✓	✓	✓	✓	✓		✓	✓
5. Report data, results, and analysis and the experimental processes used to generate those data in formal and informal settings.	✓	✓	✓	✓				✓	✓	✓	✓
6. Design a procedure that promotes safety and manages risk in a laboratory setting.			✓	✓				✓	✓	✓	✓
7. Demonstrate professional and ethical behavior appropriate to the chemistry discipline.	✓	✓	✓	✓				✓	✓	✓	✓
8. Analyze real world problems and synthesize real world solutions applying chemistry theory and principles.	✓				✓	✓	✓	✓		✓	✓
9. Collaborate with diverse individuals and groups to solve problems.	✓										
10. Effectively communicate in an articulate, respectful, ethical and culturally responsive manner.	✓	✓	✓	✓				✓	✓		
11. Apply relevant knowledge, skills, and habits of mind to seek career opportunities in the field.											