Engineering Pathway, AS

Program Learning Outcomes(PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment											
	ENG101	ENG102	CHM151	CHM152	MAT221	EGR102	MAT231	MAT241	MAT275	PHY121	PHY122	ECN201
1. Apply principles of engineering, science, and mathematics to model and solve an engineering problem.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2. Utilize the engineering design process to produce solutions that meet technical specifications and societal needs (e.g. public health, sustainability, and environmental).					✓	✓	✓	✓	✓	✓	✓	
3. Apply visual and spatial reasoning to solve engineering problems.			✓		✓		✓	✓				
4. Develop and conduct appropriate experimentation and testing, analyze and interpret data, and use engineering judgment to draw conclusions.			✓	✓	✓	✓	✓	✓	✓	✓	✓	
5. Demonstrate ability to think globally, inclusively, equitably, and sustainably in engineering and societal contexts.	✓									✓		✓
6. Demonstrate effective collaboration and participation on a diverse and inclusive engineering team to establish goals, plan tasks, and meet objectives.	✓					✓						✓
7. Use effective written, visual, and oral strategies to communicate to a range of audiences.	✓	✓	✓	✓		✓				✓	✓	
8. Recognize ethical and professional responsibilities in engineering situations and the implications for society at large.	✓	✓				✓						
9. Demonstrate creativity, curiosity, and adaptability in a variety of contexts.	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓