Computer Science Pathway, AS

Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment										
	EGR102	CIS216	EGR120	CIS231	ENG101	ENG102	MAT221	MAT231	MAT241	BIO181	BIO182
1. Write programs in a variety of programming languages and computing environments.	✓	✓	✓	✓			✓	✓	✓		
2. Apply knowledge of computing and mathematics to model situations in a variety of disciplines.	✓	✓	✓	✓			✓	✓	✓	✓	✓
3. Analyze a problem, and identify and define the computing requirements appropriate to its solution.	✓	✓	✓	✓						✓	✓
4. Design, implement, and evaluate a software solution to meet required specifications.	✓	✓	✓	✓							
5. Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of software, and demonstrate an understanding of tradeoffs involved in design choices.	✓	✓	✓	✓			✓	✓	✓		
6. Demonstrate creativity, adaptability, and flexibility in solving problems.	✓	✓	✓	✓	✓	✓				✓	✓
7. Apply design and development principles in the construction of software systems of varying complexity.	✓	✓	✓	✓							
8. Demonstrate ethical reasoning and professional conduct in computing disciplines.	✓			✓		✓					
9. Collaborate with people from diverse backgrounds to accomplish a common goal.	✓				✓	✓					
10. Effectively communicate with a variety of audiences orally, visually, and in writing.	✓	✓		✓	✓	✓					
11. Demonstrate the ability to learn and adapt in a constantly evolving technical environment.	✓		✓		✓	✓	✓	✓	✓	✓	✓