	Program Outcomes	CIS 110	CIS 120	CIS 121	CIS 160	CIS 240	CIS 262	CIS 320	CIS 371	CIS 380	CIS 400/401	CIS 455	CIS 277	CIS 330	CIS 341	CIS 553
a	An ability to apply knowledge of computing and mathematics appropriate to the discipline.	x	x	x	x	x	x	x								
b	An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.	x	x	x		x	x	x	x	x	x	x	x	x	x	x
c	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	X	X	X		x		x	x	x	x	x	x	x	x	x
d	An ability to function effectively on teams to accomplish a common goal								x		x	x				
e	An understanding of professional, ethical, legal, security and social issues and responsibilities							x			x					
f	An ability to communicate effectively with a range of audiences				x	x					x					
g	An ability to analyze the local and global impact of computing on individuals, organizations and society							x				x		x		
h	Recognition of the need for and an ability to engage in continuing professional development									x				x	x	
i	An ability to use current techniques, skills, and tools necessary for computing practice	x	x	x		x			x	x		x	x	x	x	x
j	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	x	x	x		x	x	x	x	x	x	x	x	x	x	x
k	An ability to apply design and development principles in the construction of software systems of varying complexity.	x	x	x		x				x	x	x	x	x	x	x