## **Curriculum Cross Reference Matrix**

	Page								I
Area	No.	œ	CSE	SWE	NE	IS	SEC	EC	ET
COMPUTER SCIENCE (CS)	B-2								
Discrete Structures	B-2	Х					x		
Algorithms, data structures, and complexity	B-3	X		x		Х	X		
Programming	B-4	X	X	X	Х	X	X	Х	х
Programming languages & compilers	B-4	Χ		x		Х	X		
Architecture	B-5	Χ	X		Χ	Х	l x l		
Operating systems	B-6	Χ		x	Χ	Х	x	Χ	
Networks and distributed computing	B-7	Χ	Х	x	Χ	Х	x	Χ	Х
Data management	B-8	Χ		x		Χ	x	Χ	Х
Software Engineering and methodology	B-9	Χ		x		Х	x	Χ	
Intelligent systems	B-9	Χ				Х	x		
Graphics and multimedia	B-10	Χ		x		Χ		Χ	Х
Human-computer interaction (HCI)	B-11	Χ	Х	X		Х		Χ	Х
Computational science	B-12	Χ							
System measurement and capacity planning	B-12	Χ			Χ	Х		Χ	
Social, ethical, and professional issues	B-13	Х	X	X	Х	Х	X	Х	Х
COMPUTER SYSTEMS ENGINEERING (CSE)	B-14								
Electronics	B-14		Х						
Digital Device Technology	B-15		Х						
Digital Design	B-15		Х						
Signals and Systems	B-16		Х						
Computer Architecture (see CS - Architecture)	B-17		Х						
Computer Interfacing (see CS - HCI)	B-17		X						
SOFTWARE ENGINEERING (SWE)	B-18								
Computing systems	B-18	Χ	Х	x	Χ	Χ	x	Χ	
Software requirements and specifications	B-19	Χ		x		Х	x	Χ	
Software Design	B-19	Χ		x		Х	x	Χ	
Software construction	B-20			X		Х			
User Interface Design and Development	B-21	Χ	Х	X		Х		Χ	
Test, Evaluation, and Measurement	B-21			X					
Project Management	B-22			X	Χ	Х	X	Χ	
Critical software systems	B-22	Χ		X				Χ	
									l

	Page								
Area	No.	œ	CSE	SWE	NE	IS	SEC	EC	ET
NETWORK ENGINEERING (NE)	B-24								
Network Protocols and Software	B-24		X		Χ				
Data Communications	B-25		Х		Χ				
Encryption and Computer & Network Security	B-25				Χ				
Network System Software	B-26				Χ				
Wireless & Mobile Communications	B-27				Χ				
Network Management	B-27				Х				
INFORMATION SYSTEMS (IS)	B-28								
Organizational and Management Concepts	B-28					Х			
System Development	B-29					Х			
Management Information Systems (MIS)	B-30								
INFORMATION SECURITY (SEC)	B-32								
Cryptographic Algorithms and protocols	B-32	Χ	Х	X	Χ	Х	X	Х	
Security policy	B-33	Χ	X		Χ	Х	X	Х	
Intrusion Detection	B-34	Χ	Х		Χ	Х	X	Х	
Security Architectures	B-34		Х				X		
Security assurance, risk, and safety analysis	B-35	Х	X		Х	Х	Х	X	
E-COMMERCE (EC)	B-37								
Business systems and processes	B-37							Х	
Customer behavior models	B-37							Х	
Performance evaluation	B-38							X	
EDUCATIONAL TECHNOLOGY (ET)	B-39								
distance learning	B-39								Χ
Instructional design	B-39								Χ