

Table 1

	1 <i>Techniques, skills, and tools necessary for computing practice.</i>	2 <i>Principles and practices for secure computing.</i>	3 <i>Local and global impacts of computing solutions on individuals, organizations, and society.</i>	4a <i>Substantial coverage of algorithms and complexity.</i>	4b <i>Substantial coverage of computer science theory.</i>	4c <i>Substantial coverage of concepts of programming languages.</i>	4 <i>Substantial coverage of software development.</i>	5 <i>Substantial coverage of at least one general-purpose programming language.</i>	6a <i>Exposure to computer architecture and organization.</i>	6b <i>Exposure to information management.</i>	6c <i>Exposure to networking and communication.</i>	6 <i>Exposure to operating systems.</i>	6e <i>Exposure to parallel and distributed computing.</i>	7 <i>The study of computing-based systems at varying levels of abstraction.</i>	8 <i>A major project that requires integration and application of knowledge and skills acquired in earlier course work.</i>	
CS400																0
IT403	x	x	x								x					4
CS410/414/415						x		x								2
CS416/417	x			x		x		x								4
CS501			x													1
CS515	x			x		x		x								4
CS520	x	x				x	x		x			x	x			7
CS619	x	x					x			x	x		x		x	6
CS620		x							x			x	x			4
CS659					x											1
CS671	x			x		x		x					x			5
CS758	x			x	x											3
CS791	x	x													x	2
CS792	x	x													x	2
Theory (+)														x		1
Implementation (*)	x															1
CS712 (*)	x				x	x	x							x		5
CS723 (+)									x			x		x		3
CS725											x					1
CS727		x							x		x					3
CS730 (*)	x			x												2
CS733														x		1
CS735 (*)	x			x		x	x	x	x				x			7
CS745 (+)	x				x								x	x		4
CS750 (+)	x				x									x		3
CS753				x	x	x	x									4
CS757 (+)	x				x									x		3
CS770 (*)	x			x				x	x							4
CS775										x						1
Core	10	6	2	4	2	5	2	4	2	1	2	2	4	1	3	
Electives	7	1	0	4	5	3	3	2	4	1	2	1	2	6	0	
<p><i>Students are required to take all courses in the top half ("core" courses), plus 4 courses in the bottom half ("electives"), one of which must be "implementation" (*) and one of which must be "theory" (+). All "implementation" electives cover topic 1; all "theory" electives cover topic 7.</i></p>																