MACS Learning objectives	TCP/IP 520	Web 540	SEng 545	Data 555	Viz 556	SysAn 561	Sec 570	Thes 599	ProjM 405	Mobile 430	Cloud 435	Foren 450	DB 452	OSS 455	Usa 465
Evaluate and adapt software development tools, software systems, and modern computing platforms to a given problem		x	x		x	x				x		x			x
Describe a real-world problem so that it can be addressed computationally				x	x							x	x	x	
Apply reasoning, problem solving, and technical skills to solve a problem with minimal guidance	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Manage a substantial computing project from design to implementation			x						x	x					
Identify and eliminate security risks in databases, networks, web applications and the cloud	x						x				x	x	x		
Implement effective data mining algorithms, as well as data visualization techniques				x	x										
Describe the architecture and data transmission protocols of the Internet	x										x				
Independently learn advanced computing subtopics								x						x	
Successfully collaborate on team projects			x			x			x					x	
x	indicates the course covers the learning objective														
x	indicates the learning objective is assessed														