

**Computer Science Department, TCNJ
Learning Outcomes Map**

Course #	Course Title	General Learning Outcomes							Program Learning Outcomes						
		Critical analysis and reasoning	Scientific reasoning	Quantitative reasoning	Oral communication	Written communication	Technological competence	Information reasoning	a. Application of knowledge of computing and mathematics appropriate to discipline	b. Skill in problem statement and analysis and solution, implementation and testing	c. Skillset in designing, implementing and evaluating computer-based system process, component or program to meet desired needs	d. Ability to work productively on team projects	e. Knowledge and insight to behave ethically in professional practice to support larger community	f. Ability to communicate effectively with a range of audiences and express ideas in documentation and computer code	
Courses for Non-majors															
CSC 101	INTRODUCTION TO COMPUTING	X		X				X	X	NA	NA	NA	NA	NA	NA
CSC 102	INTRO TO COMPUTATIONAL MODELING	X	X	X				X	X	NA	NA	NA	NA	NA	NA
CSC 104	HUMAN AND ARTIFICIAL INTELLIGENCE	X	X	X				X	X	NA	NA	NA	NA	NA	NA
CSC 105	APPLY COMPUTING TO MATH PROB SOLV	X	X	X				X	X	NA	NA	NA	NA	NA	NA
Support Courses															
CSC 215	COMP SCI I FOR SCIENCE/ENGNRG	X	X	X				X	X	NA	NA	NA	NA	NA	NA
Core Courses															
CSC 099	ORIENTATION TO COMPUTER SCIENCE				X	X	X	X						X	
CSC 220	COMP SCI I: COMPUT PRBL SOLVING	X	X	X				X	X		X			X	
CSC 230 or CSC 250	COMP SCI II: DATA STRUCTURES ACCELERATED CS 1 AND 2	X	X	X				X	X	X	X		X		
CSC 260	COMPUTER SCIENCE III	X	X	X	X	X	X	X	X	X		X	X	X	
CSC 310	DISCRETE STRUCTURES OF COMP SCI	X	X	X	X	X	X	X	X	X					X
CSC 325	COMPUTER ARCHITECTURE	X	X	X	X	X	X	X			X	X			
CSC 345	OPERATING SYSTEMS	X	X	X	X	X	X				X	X			
CSC 410	ADVANCED ANALYSIS OF ALGORITHMS	X	X	X				X	X	X					X
CSC 390 or CSC 460	PROGRAMMING LANGUAGES THEORY OF COMPUTATION	X	X	X				X	X	X					
CSC 399 or CSC 498 or CSC 499	INTERNSHIP MENTORED RESEARCH 1 MENTORED RESEARCH 2	X		X	X	X	X	X	X	X	X	X		X	X
Option Courses															
CSC 307	DATAMINING & PREDICTIVE MODELING	X	X	X				X	X	X	X				
CSC 315	DATABASE SYSTEMS	X	X	X				X	X	X	X		X		
CSC 320	INFORMATION RETRIEVAL	X	X	X				X	X	X	X		X		
CSC 350	COMPUTER GRAPHICS	X	X	X				X	X	X	X				

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CSC 360	COMPUTER NETWORKING	X	X	X			X	X	X	X	X			X
CSC 365	GAMES I: DESIGN & ARCHITECTURE	X	X	X		X	X	X	X	X	X	X	X	
CSC 380	ARTIFICIAL INTELLIGENCE	X	X	X			X	X	X	X	X	X		
CSC 391	INDEPENDENT STUDY COMPUTER SCI	X	X	X	X	X	X	X	X	X	X			
CSC 434	COMPILERS AND INTERPRETERS	X	X	X			X	X	X	X	X	X		X
CSC 450	COMPUTER & NETWORK SECURITY	X	X	X			X	X	X	X	X			X
CSC 465	GAMES II: IMPLEMENTATION	X	X	X			X	X	X	X	X	X		
CSC 470	TOPICS IN COMPUTER SCIENCE	X	X	X			X	X	X	X				
CSC 471	GENOMICS AND BIOINFORMATICS	X	X	X			X	X	X	X		X	X	