

**Degree Worksheet  
MSCS**

**Area of Specialization: Computing Systems**

Computing Systems Specialization = 18 hours of core + required electives  
 12 hours of "free" electives  
 30 Hours Total for Degree

Must earn grades of "B" or higher in all courses that count in Area of Specialization. Must earn a minimum 3.0 overall GPA to graduate. Only letter grade coursework will count.

**SECTION 1 - Demographics**

Name: \_\_\_\_\_

GT ID#: \_\_\_\_\_

Graduation Semester: \_\_\_\_\_

Date: \_\_\_\_\_

**SECTION 2 – Computing Systems Core (9 hours)**

Take one (1) course from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6505	Computability, Complexity, and Algorithms			
	CS 6515	Introduction to Graduate Algorithms <i>(formerly CS 8803 GA Graduate Algorithms)</i>			

And, two (2) courses from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6210	Advanced Operating Systems			
	CS 6241	Compiler Design			
	CS 6250	Computer Networks			
	CS 6290	High-Performance Computer Architecture			
	CS 6300 <b>OR</b> CS 6301	Software Development Process <b>OR</b> Advanced Topics in Software Engineering <i>(formerly CS 8803 ASE)</i>			
	CS 6390	Programming Languages			
	CS 6400	Database Systems Concepts and Design			

**Transfer Credit / Substitutions**

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

**SECTION 3 – Computing Systems Required Electives (9 hours)**

Pick three (3) from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6035	Introduction to Information Security			
	CS 6200	Graduate Introduction to Operating Systems			
	CS 6220	Big Data Systems and Analytics			

	CS 6235	Real Time Systems			
	CS 6238	Secure Computer Systems			
	CS 6260	Applied Cryptography			
	CS 6262	Network Security			
	CS 6263	Intro to Cyber Physical Systems Security			
	CS 6291	Embedded Systems Optimization			
	CS 6310	Software Architecture and Design			
	CS 6340	Software Analysis and Testing			
	CS 6365	Introduction to Enterprise Computing			
	CS 6422	Database System Implementation			
	CS 6550	Design and Analysis of Algorithms			
	CS 6675	Advanced Internet Computing Systems and Applications			
	CS 7210	Distributed Computing			
	CS 7260	Internetworking Architectures and Protocols			
	CS 7270	Networked Applications and Services			
	CS 7280	Network Science			
	CS 7290	Advanced Topics in Microarchitecture			
	CS 7292	Reliability and Security in Computer Architecture			
	CS 7560	Theory of Cryptography			
	CS 8803-FPL	Special Topics: Foundations of Programming Languages			
	CSE 6220	High-Performance Computing			

**Transfer Credit / Substitutions**

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

**SECTION 4 – “Free” Electives (12 hours)** *“Free” Electives are any remaining letter grade courses not used above and within program rules.*

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

**Transfer Credit / Substitutions**

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

**completed by MSCS Advisor**

Notes:

S-GPA: \_\_\_\_\_

C-GPA: \_\_\_\_\_

Advisor

Sign \_\_\_\_\_

Date \_\_\_\_\_