



Georgia Tech  
College of Computing

Degree Worksheet  
MSCS

**Area of Specialization: Scientific Computing**

Scientific Computing = 15 hours of core + required electives  
Specialization      15 hours of "free" electives  
30 Hours Total for Degree

Must earn grades of "B" or higher in all courses that count in the 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# (example: 90XXXXXXX): \_\_\_\_\_

Graduation Semester (example: Spring 2024): \_\_\_\_\_ Date: \_\_\_\_\_

**SECTION 2 – Scientific Computing Core (6 hours)**

**Required:**

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CSE/MATH 6643	Numerical Linear Algebra			

**And, one (1) from:**

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CSE/MATH 6644	Iterative Methods for Systems of Equations			
	MATH 6640	Introduction to Numerical Methods for Partial Differential Equations			

**Section 2 - Transfer Credit / Substitutions (if applicable)**

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

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

Pick three (3) courses from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS/CSE 6230	High-Performance Parallel Computing: Tools and Applications			
	CS/CSE 8803	Special Topics: Parallel Numerical Algorithms			
	CSE 6140	Computational Science and Engineering Algorithms			
	CSE 6220	High Performance Computing			
	CSE/MATH 6644	Iterative Methods for Systems of Equations			
	CSE 8803	Special Topics: Algorithms for Medical Imaging and Inverse Problems			
	CSE 8803 / CHEM 6485	Computational Chemistry			
	MATH 6640	Introduction to Numerical Methods for Partial Differential Equations			

**Section 3 - Transfer Credit / Substitutions (if applicable)**

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

**SECTION 4 – “Free” Electives (15 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

**Section 4 - Transfer Credit / Substitutions (if applicable)**

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

**This section to be completed by MSCS Advisor**

Notes:

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

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

Advisor

Sign \_\_\_\_\_

Date \_\_\_\_\_