



Georgia Tech  
College of Computing

Degree Worksheet  
MSCS

**Area of Specialization: Modeling and Simulations**

Modeling and Simulations Specialization = 15 hours of core + required electives  
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 – Modeling and Simulations Core (6 hours)**

**Required:**

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CSE 6730	Modeling and Simulation: Foundations and Implementation			

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

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CSE 6220	High Performance Computing			
	ISYE 6644	Simulation			
	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 – Modeling and Simulations Required Electives (9 hours)**

Pick three (3) courses from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CSE 6220	High Performance Computing			
	CSE 6236	Parallel and Distributed Simulation			
	CSE/CHEM 8803	Special Topics: Quantum Information, Computation, and Simulation			
	CS 7280	Network Science			
	INTA 6742	Modeling, Simulation, and Military Gaming			
	ISYE 6644	Simulation			
	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 \_\_\_\_\_