# Georgia Tech College of Computing

**Degree Worksheet**
**MSCS**
**Area of Specialization: Modeling and Simulations**

| | | |
|---|---|---|
| Modeling and Simulations Specialization | = 15 hours of core + required electives<br>15 hours of "free" electives<br>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#** (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 | | | |

**Transfer Credit / Substitutions**

| Prefix & No. | Course Title | Semester Taken | Credit Hours | Grade |
|---|---|---|---|---|
| | | | | |
| | | | | |

## 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 | | | |

**Transfer Credit / Substitutions**

| 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 |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Transfer Credit / Substitutions**

| 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 _____