

**Degree Worksheet
MSCS**

Area of Specialization: Computational Perception & Robotics

Computational = 15 hours of core + required electives
 Perception & Robotics 15 hours of "free" electives
 Specialization 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 – Computational Perception & Robotics Core (6 hours)

**Take one (1) course from:
Algorithms**

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6505	Computability, Algorithms, and Complexity			
	CS 6515	Introduction to Graduate Algorithms <i>(formerly CS 8803 GA Graduate Algorithms)</i>			
	CS 6520	Computational Complexity Theory			
	CS 6550	Design and Analysis of Algorithms			
	CS 7520	Approximation Algorithms			
	CS 7530	Randomized Algorithms			
	CSE 6140	Computational Science and Engineering Algorithms			

And, one (1) course from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6601	Artificial Intelligence			
	CS 7641	Machine Learning			

Transfer Credit / Substitutions

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

SECTION 3 – Computational Perception & Robotics Required Electives (9 hours)

**Pick three (3) courses from Perception and Robotics with at least one (1) course from each:
Perception**

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6475	Computational Photography			

	CS 6476	Computer Vision			
	CS 7499	3D Reconstruction			
	CS 7636	Computational Perception			
	CS 7639	Cyber Physical Design and Analysis			
	CS 7644	Machine Learning for Robotics			
	CS 7650	Natural Language			
	CS 8803	Special Topics: Multiview Geometry in Computer Vision			

Robotics

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 7630	Autonomous Robotics			
	CS 7631	Autonomous Multi-Robot Systems			
	CS 7633	Human-Robot Interaction			
	CS 7638	Artificial Intelligence Techniques for Robotics			
	CS 7648	Interactive Robot Learning			
	CS 7649	Robot Intelligence: Planning			

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 _____