

Machine Learning =

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 Area of Specialization. Must earn a minimum of 3.0 overall GPA to graduate. Only letter grade coursework will count.

SECTION 1 - Demographics

Name:

GT ID:

Graduation Semester:

Date:

SECTION 2 – Machine Learning 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 6520	Computational Complexity Theory			
	CS 6550	Design and Analysis of Algorithms			
	CS 7510	Graph Algorithms			
	CS 7520	Approximation Algorithms			
	CS 7530	Randomized Algorithms			
	CSE 6140	Computational Science and Engineering Algorithms			

\*CS 8803-GA can substitute CS 6505 (see below)

And, one (1) course from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 7641	Machine Learning			
	CSE 6740	Computational Data Analysis: Learning, Mining, and Computation			

Transfer Credit / Substitutions

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
*CS 8803-GA	Graduate Algorithms			

\*For OMSCS students only

SECTION 3 – Machine Learning Required Electives (9 hours)

Pick three (3) of:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6220	Big Data Systems and Analytics			
	CS 6476	Computer Vision			
	CS 7535	Markov Chain Monte Carlo			

	CS 7540	Spectral Algorithms			
	CS 7545	Machine Learning Theory			
	CS 7616	Pattern Recognition			
	CS 7626	Behavioral Imaging			
	CS 7642	Reinforcement Learning (formerly CS 8803-O03)			
	CS 7643	Deep Learning			
	CS 7646	Machine Learning for Trading			
	CS 7650	Natural Language			
	CS 8803	Special Topics: Probabilistic Graph Models			
	CSE 6240	Web Search and Text Mining			
	CSE 6242	Data and Visual Analytics			
	CSE 6250	Big Data for Health Informatics (formerly CSE 8803-O01)			
	ISYE 6416	Computational Statistics			
	ISYE 6420	Bayesian Methods			
	ISYE 6664	Stochastic Optimization			

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

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

Notes:

Advisor Sign\_\_\_\_\_ Date\_\_\_\_\_