

Name: _____

UNI: _____

Entered Program: _____

Expected Graduation: _____

Part-time students are expected to complete the program in 4-5 semesters of coursework. If you extend your time at Columbia, please contact QMSS program staff to discuss your academic plan. The QMSS Program builds in more flexibility than this worksheet indicates. Please contact the program coordinator if you have any questions. **Thirty (30) points minimum are required for the degree. Students must maintain a 3.0 or above average.**

QMSS Core Requirements

- A. Theory and Methodology (QMSS G4010)
- B. Two Seminars (QMSS G4021 and QMSS G4022)
- C. Data Analysis Requirement to be fulfilled by Probability and Statistics (STAT W5701)
- D. General Data Science Elective
 - a. QMSS G4070: GIS and Spatial Analysis
 - b. QMSS G5070: Modern Data Structures
 - c. QMSS G4059: Introduction to Missing Data
 - d. QMSS G4062: Social Network Analysis
 - e. QMSS G4071: Advanced GIS and Spatial Analysis
- E. Master's Thesis (QMSS G5999)
- F. Two Additional Electives

Data Science Concentration Requirements:

- G. Algorithms for Data Science (CSOR W4246)
- H. Exploratory Data Analysis & Visualization (STAT W4701 or QMSS G4063)
- I. Machine Learning for Data Science (COMS W4721)

Course Planner

First Year Fall Semester

Course Title	Course Number	Credits	Semester	Year
Theory and Methodology	QMSS G4010	4	Fall	
Probability and Statistics	STAT W5701	3	Fall	
Algorithms for Data Science	CSOR W4246	3	Fall	

First Year Spring Semester

Machine Learning for Data Science	COMS W4721	3	Spring	
Exploratory Data Analysis & Visualization	STAT W4701 or QMSS G4063	3 or 4	Spring	
<i>Elective Course</i>			Spring	

Second Year Fall Semester

QMSS Seminar	QMSS G4021	2	Fall	
Algorithms for Data Science (if not completed)	CSOR W4246	3	Fall	
<i>Elective Course</i>			Fall	

Second Year Spring Semester

QMSS Seminar	QMSS G4022	2	Spring	
Exploratory Data Analysis & Visualization (if not completed)	STAT W4701 or QMSS G4063	3 or 4	Spring	
Master's Thesis	QMSS G5999	3 or 4	Spring	
<i>Total credits (30 min)</i>				

Thesis Title: _____

Advisor (if applicable): _____