QUANTITATIVE METHODS IN THE SOCIAL SCIENCES

QMSS Data Science Focus
Course Planning Worksheet AY 2022-23

Full-time students are expected to complete the program in 2 semesters. **Part-time students** are expected to complete the program in 4 to 5 semesters. If you want to spend additional time at Columbia (through an Extended Residence), please contact QMSS program staff to discuss your academic plan. In addition to the curricular requirements below, all QMSS students must also satisfy the following graduation requirements…

- ☐ Complete a minimum of 30 graduate course credits
- ☐ Maintain a 3.0 or above average GPA.
- ☐ Complete the equivalence of two full Residence Units (in increments of ¼, ½, and/or 1)
- ☐ Apply to graduate by the deadline for the appropriate semester.

First Semester: _____ **Last Semester:** _____

Course Title	**Points**	**Semester**
QMSS GR5010: Theory and Methodology	3	*Fall ONLY*
QMSS GR5021: Research Seminar	3	Fall or Spring
QMSS GR5022: Research Seminar II *(must be after GR5021)*	3	Fall or Spring
QMSS GR5015: Data Analysis for Social Science	3	Fall or Spring
Algorithmic Learning: take one of the following		
a. QMSS GR5058: Data mining for Social Science	3	Fall
b. QMSS GR5073: Machine Learning for Social Science	3	Fall/Spring
Two general data science courses (any two of the following):		
a. QMSS GR5052: Practicum in Data Analysis	3	Fall/Spring
b. QMSS GR5062: Social Network Analysis	3	Spring
c. QMSS GR5067: Natural Language Processing	3	Fall/Spring
d. QMSS GR5069: Applied Data Science for Social Science	3	Spring
e. QMSS GR5070: GIS and Spatial Analysis	3	Fall
f. QMSS GR5072: Modern Data Structures	3	Fall/Spring
g. QMSS GR5074: Advanced Machine Learning	3	Spring Fall/Spring
Elective course_____	1 to 4	
QMSS GR5999: Master's Thesis *(taken during last semester in program)*	3 or 4	

Total Points: ☐

(must equal 30+)

Thesis Advisor Name : _____ **NOTES:**

Advisor Title: _____

Advisor Dept :_____

QMSS Data Science Focus Semester Planning Worksheet, AY 2022-23

Semester 1 : _____ Residence Unit : _____ RU Credit/Class Cap :_____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

Semester 2 : _____ Residence Unit : _____ RU Credit/Class Cap : _____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

Semester 3 : _____ Residence Unit : _____ RU Credit/Class Cap : _____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

Semester 4 : _____ Residence Unit : _____ RU Credit/Class Cap : _____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

QMSS Data Science Foxus Semester Planning Worksheet, AY 2022-23

Semester 5 : _____ Residence Unit : _____ RU Credit/Class Cap :_____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

Semester 6 : _____ Residence Unit : _____ RU Credit/Class Cap : _____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

Semester 7 : _____ Residence Unit : _____ RU Credit/Class Cap : _____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____

Semester 8 : _____ Residence Unit : _____ RU Credit/Class Cap : _____

Course Dept. & Number:	Course Name	Points:

RU Count: _____ Total Points:_____