



2022-2023 M.S. Requirements Data Science Concentration

For students starting their program Fall 2022

Required Courses: All listed Survey and Data Science (SurvMeth) courses are required courses in the program and must be taken for a letter grade to fulfil degree requirements. Students must earn a B or better on all required coursework. The required courses differ slightly depending on which emphasis you have selected (Survey Statistics, Social and Psychological Science, Data Science).

Electives: All courses taken to fulfil an elective requirement can be selected from any relevant department with advisor approval. Electives must be taken for a letter grade. If you are concerned about overlapping of content between required courses and electives, you should choose electives that have fresh, new content that will not be covered in the required Survey and Data Science curriculum.

Other Requirements: All students are required to attend 75% of the scheduled weekly JPSM-MPSDS Seminar Series, visiting employer, or other program events presentations scheduled on Wednesdays from 12:00-1:00pm. Attendance will be taken at these events to confirm compliance with this requirement.

Full-time (4 terms plus summer internship)

	Minimum credits
<u>Fall, Year I (12 credit hours)</u>	
<input type="checkbox"/> SurvMeth 685: Statistical Modeling I	3
<input type="checkbox"/> SurvMeth 621: Fundamentals of Data Collection I	3
<input type="checkbox"/> SurvMeth 727: Fundamentals of Computing and Data Display OR Elective/Cognate, Advisor Approved:	3
<input type="checkbox"/> Elective/Cognate, Advisor Approved: (SI 506 strongly recommended)	3
<input type="checkbox"/> Professional Development: Attendance at 75% of scheduled MPSM Seminar Series and Employer Information Sessions. Attending professional conferences can be substituted for attending some seminars and employer presentations.	0
<u>Winter, Year I (12 credit hours)</u>	
<input type="checkbox"/> SurvMeth 686: Statistical Modeling II	3
<input type="checkbox"/> SurvMeth 625: Applied Sampling	3
<input type="checkbox"/> SurvMeth 622: Fundamentals of Data Collection II	3
<input type="checkbox"/> SurvMeth 895.001: Machine Learning for Social Science	3
<input type="checkbox"/> Professional Development: Attendance at 75% of scheduled MPSM Seminar Series and Employer Information Sessions. Attending professional conferences can be substituted for attending some seminars and employer presentations.	0
<u>Summer, Year I (0)</u>	
<input type="checkbox"/> Internship: _____	
<input type="checkbox"/> Internship Paper	
<u>Fall, Year II (11 credit hours)</u>	
<input type="checkbox"/> SurvMeth 720: Total Survey Error and Data Quality I	2
<input type="checkbox"/> SurvMeth 687: Applications of Statistical Modeling	3
<input type="checkbox"/> SurvMeth 740: Fundamentals of Inference	3
<input type="checkbox"/> SurvMeth 727: Fundamentals of Computing and Data Display (if not taken in year 1) OR Advisor Approve Elective/Cognate.	3
<input type="checkbox"/> Professional Development: Attendance at 75% of scheduled MPSM Seminar Series and Employer Information Sessions. Attending professional conferences can be substituted for attending some seminars and employer presentations.	0
<u>Winter, Year II (11 credit hours)</u>	
<input type="checkbox"/> SurvMeth 721: Total Survey Error and Data Quality II (Masters Thesis)	2
<input type="checkbox"/> SurvMeth 670: Design Seminar	3
<input type="checkbox"/> SurvMeth 701: Analysis of Complex Sample Survey Data	3
<input type="checkbox"/> SurvMeth 745: Practical Tools for Sampling and Weighting	3
<input type="checkbox"/> Professional Development: Attendance at 75% of scheduled MPSM Seminar Series and Employer Information Sessions. Attending professional conferences can be substituted for attending some seminars and employer presentations.	0
Total Minimum Credit Hours	46