



MASTER OF SCIENCE IN SURVEY & DATA SCIENCE



3 AREAS OF SPECIALIZATION



Social
Science

Designed for students who wish to specialize in areas such as questionnaire design, design of interviewing systems, computer assistance in data collection, effects of mode of data collection, cognitive psychological insights into survey measurement, and efforts to reduce various nonsampling errors in data collection.



Survey
Statistics

Designed for students who wish to specialize in areas such as sample design, estimation in complex samples, variance estimation, statistical measurement error models, and statistical adjustment for missing data.



Data
Science

Designed for students who wish to specialize in areas such as computational aspects of survey methodology, data visualization, management and analysis of large and complex data sets, human-computer interaction in survey research, and machine learning algorithms.



ONSITE



AREAS OF SPECIALIZATION



Social Science



Survey Statistics



Data Science

YEAR 1 (FALL)

Fundamentals of Data Collection I

Statistical Methods I

Cognition, Communication and Survey Measurement

Elective/Cognate

(12 Credit Hours)

Fundamentals of Data Collection I

Statistical Methods I

Introduction to Probability Theory

Elective/Cognate

(12 Credit Hours)

Fundamentals of Data Collection I

Statistical Methods I

Elective/Cognate

Elective/Cognate

(12 Credit Hours)

YEAR 1 (SPRING)

Fundamentals of Data Collection II

Statistical Methods II

Applied Sampling

Questionnaire Design or advisor approved Elective/Cognate

(12 Credit Hours)

Fundamentals of Data Collection II

Statistical Methods II

Sampling Theory

Theory and Methods of

Statistics

(12 Credit Hours)

Fundamentals of Data Collection II

Statistical Methods II

Applied Sampling

Elective/Cognate

(12 Credit Hours)

JPSM M.S. DEGREE REQUIREMENTS

46 Total Credit Hours



YEAR 1 (SUMMER)

YEAR 2 (FALL)

YEAR 2 (SPRING)

Internship Completed
Internship Paper
Internship
Focus Group

Total Survey Error and Data
Quality I
Applications of Statistical
Modeling
Fundamentals of Inference
Fundamentals of Computing
and Data Display
(11 Credit Hours)

Total Survey Error and Data
Quality II
(Masters Capstone Project)
Design Seminar
Analysis of Complex Sample
Survey Data
Elective/Cognate
(11 Credit Hours)

Internship Completed
Internship Paper
Internship
Focus Group

Total Survey Error and Data
Quality I
Applications of Statistical
Modeling
Fundamentals of Inference
OR advisor approved
Elective/Cognate
Fundamentals of Computing
and Data Display
(11 Credit Hours)

Total Survey Error and Data
Quality II
(Masters Capstone Project)
Design Seminar
Inference from Complex
Samples OR advisor
approved Elective/Cognate
Elective/Cognate
(11 Credit Hours)

Internship Completed
Internship Paper
Internship
Focus Group

Total Survey Error and Data
Quality I
Applications of Statistical
Modeling
Fundamentals of Inference
Fundamentals of Computing
and Data Display
(11 Credit Hours)

Total Survey Error and Data
Quality II
(Masters Capstone Project)
Design Seminar
Analysis of Complex Sample
Survey Data
Elective/Cognate
(11 Credit Hours)

ELECTIVE EXAMPLES:

- ATTITUDES IN PUBLIC OPINION
- HUMAN COMPUTER INTERACTION
- BAYESIAN ANALYSIS
- MARKET RESEARCH DESIGN AND ANALYSIS
- DATA MINING AND STATISTICAL LEARNING
- INFORMATION / DATA VISUALIZATION
- BIG DATA MANAGEMENT: TECHNIQUES & TOOLS
- CROSS-CULTURAL & MULTI-POPULATION DESIGN
- ECONOMIC MEASUREMENT



JOINT PROGRAM IN SURVEY METHODOLOGY

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JPSM.UMD.EDU



COLLEGE OF
BEHAVIORAL &
SOCIAL SCIENCES

**JOINT PROGRAM
IN SURVEY METHODOLOGY**

The Joint Program in Survey Methodology is one of the College of Behavioral and Social Sciences' 10 diverse, interdisciplinary departments and programs, all committed to investigating and improving the human condition.

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