Advanced Quantitative Social Science Minor (Sociology)

The Advanced Quantitative Social Science Minor (AQSSM) is open to all graduate students in the sociology department. The program is designed to provide in-depth training in quantitative methodology that are broadly applicable in the social sciences, with a particular emphasis on statistical/quantitative methods that are most widely used in sociology. The AQSSM involves the successful completion of **six approved courses**, including the following:

REQUIRED COURSES (4)
- Sociology 63997: Linear Regression
- Sociology 73994: Categorical Data Analysis
- Sociology 63913: Research Methods
- Sociology 73997: Causal Inference

ELECTIVE COURSES (Any 2, with at least one of the two courses from the following list of Psychology courses)
- Psychology 60130: Structural Equation Modeling
- Psychology 60101: Machine Learning for Social/Behavioral Research
- Psychology 60108: Bayesian Statistics
- Psychology 60109: R for Data Science
- Psychology 60125: Multivariate Analysis
- Psychology 60155: Longitudinal Data Analysis
- Psychology 60148: Advanced Structural Equation Modeling
- Psychology 60139: Missing Data Analysis
- Psychology 60143: Applied Time Series Analysis
- Psychology 60121: Psychological Measurement and Test Development
- Psychology 60152: Item Response Theory
- Economics 60650: Designing and Analyzing Experiments
- Sociology 63999: Data Management and Visualization

Note: Additional courses may be added to this list in future semesters.

Two Semesters of QSG. Students must also attend weekly colloquia of the Quantitative Studies Group (QSG), PSY 63199, for two semesters. PSY 63199 is listed for one-credit per semester, and is graded S/U.

Successful completion of the AQSSM will serve the equivalent of passing one area exam in the sociology department's graduate program. Students are expected to complete the AQSSM by the end of their third year in the program.

Courses that meet the requirements for the minor are reviewed yearly, and may change. However, students will always be expected to meet the course requirements when they declare.

More requirements and opportunities of the AQSSM can be found at the web site (https://psychology.nd.edu/graduate-programs/areas-of-study/quantitative/minor/).
For additional information or questions about the minor, students should contact Prof. Bill Carbonaro.