

Ph.D. Concentration in **Methodology**  
Fall 2009

**Participating Faculty:** Jones Johnson, Peters, Roberts, Sapp, Stewart, Woodman

**Program Coordinator:** Sapp

**Expectations:** Students choosing this concentration are expected to be knowledgeable about generally accepted methods of research design and data analysis. Depending on the student's substantive interests, he or she may be expected to understand newly emerging research techniques used in the major journals. The course and credit requirements for a concentration in sociological methods will be determined by the student's Ph.D. advisory committee.

**Concentration Courses (Two of three are required for graduation):**

- 512 Factor Analysis
- 513 Qualitative Research Methods
- 613 Advanced Theory Construction and Causal Modeling

**Declared Minor:** The student and his or her advisory committee may also decide to add a Ph.D. minor in Statistics, which requires: one faculty member on Program of Study Committee with an appointment in Statistics; complete a minimum of four Statistics courses, Stat 401, Stat 447, and two additional statistic courses; receive at least a B grade in both Statistics 401 and 447, and a grade point average for the four courses of at least 3.33 (B+). Note: Stat 500 can be substituted for Stat 401. Statistics 447 can be replaced by taking both Stat 542 and 543.

**Recommended Courses in Other Departments:**

Agricultural Education and Studies

- 620 Research Procedures in Agricultural Education

Community and Regional Planning

- 432 Community Planning Studio II

Computer Science

- 311 Design and Analysis of Algorithms
- 342 Principles of Programming Languages
- 401 Projects in Computing and Business Applications
- 531 Theory of Computation
- 541 Programming languages

Economics

- 500 Quantitative Methods in Economic Analysis I
- 571 Intermediate Econometrics

Educational Leadership and Policy Studies

- 550 Teaching, Learning and Leadership

English

- 314 Technical Communication
- 507 Writing and Analyzing Professional Documents

Family and Consumer Sciences Education and Studies

- 511 Research Methods
- 515 Assessment in Family and Consumer Sciences
- 611 Program Evaluation in Family and Consumer Sciences

Health and Human Performance - Physical Education

500 Research Methods in Physical Activity

History

583 Historical Methods

Human Development and Family Studies

503 Research Methods in Human Development and Family Studies

566 Impact of Public Policy on the Family

Journalism and Mass Communication

502 Communication Research Methods

Management Information Systems

438 Information Systems Development

Marketing

544 Marketing Research

Political Science

502 Political Analysis and Research

574 Policy and Program Evaluation

Psychology

440 Psychological Measurement I

508 Research Methods in Applied Psychology

Statistics

402 Statistical Design and the Analysis of Experiments

407 Methods of Multivariate Analysis

421 Survey Sampling Techniques

432 Applied Probability Models

447 Statistical Theory for Research Workers

451 Applied Time Series

479 Computer Processing of Statistical Data

500 Statistical Methods

501 Multivariate Statistical Methods

511 Statistical Methods

512 Design of Experiments

521 Theory of Application and Sample Surveys

534 Ecological Statistics

579 Introduction to Statistical Computing