RESEARCH METHODOLOGY, GRADUATE MINOR

Saint Louis University offers a graduate minor in research methodology designed to provide students with a background in advanced analysis and methods.

Administered through Saint Louis University’s Department of Sociology and Anthropology, the minor is open to all students and can be tailored to meet students’ own disciplinary program needs.

Elements of the minor are developed by consensus between students, their advisor/mentor and the graduate director in the Department of Sociology and Anthropology.

Curriculum Overview

SLU’s graduate minor in research methodology consists of (with prerequisites) five courses: a basic, quantitative statistics/analysis course; two advanced quantitative analysis courses; and two advanced research methodology courses.

Students may petition to include additional courses by submitting a copy of the syllabus for such courses. Upon approval, these courses can also be included in the minor. At least 80% of the courses included in the minor must be taken at Saint Louis University and all courses must be graded courses; no pass/fail or satisfactory/unsatisfactory coursework will be accepted.

Admission Requirements

To be admitted to this minor program, students must be seeking a degree in a Saint Louis University graduate program. They must have taken a general research methodology course prior to admission to the minor. This must be a basic introductory course that provides an overview of all major forms of research methodology and design. This prerequisite serves as a foundation for all other courses taken in this minor.

To add the research methodology minor, contact the coordinator of the graduate research methodology minor. A petition to amend the graduate program (https://www.slu.edu/academics/graduate/current-students/forms-petitions/petition_to_amend_grad_program_form.pdf) along with an academic plan for the minor must be completed and submitted to the associate graduate dean/director of the college, school, or center appropriate for the student. Upon completion of the minor requirements, it will be noted as a “Minor in Research Methodology” on the academic transcript.

Students are encouraged to discuss the possibilities of the minor with their advisor/mentor, or they can contact the graduate director in the Department of Sociology and Anthropology, allowing them to build a minor that is best suited for their own needs and the goals of their major program.

Requirements

The research methodology minor is administered through SLU’s College of Arts and Sciences. It is composed of at least 15 credits that include a basic statistical analysis course, two courses in advanced methodology and two courses in advanced analysis.

Courses that fulfill these categories come from a wide variety of departments across the University:

- **Cluster I**: Core course. All students must take an introductory inferential statistics course.
  - **Code** | **Title** | **Credits**
  - BST 5020 | Theory of Biostatistics | 3
  - CAD 5050 | Introduction to Statistical Inference | 3
  - EDR 5100 | Intro to Inferential Stats: Ed | 3
  - NURS 6805 | Introduction to Applied Statistics for Healthcare Research | 3
  - ORES 5010 | Introduction to Biostatistics for Health Outcomes | 3
  - PSY 5790 | Applied Univariate Statistics in Behavioral Science | 3
  - SOC 5015 | Quantitative Research Methods | 3

- **Cluster II**: Advanced methodology and design courses. A student would select at least two courses from this cluster.
  - **Code** | **Title** | **Credits**
  - BST 5400 | Applied Data Management | 6
  - BST 5420 | Sampling Theory and Survey Design in Public Health | 6
  - CMM 5810 | Digital Storytelling | 6
  - CMM 5820 | Advanced Research Methods | 6
  - EDR 5500 | Evaluation of Education Programs | 6
  - EDR 6150 | Single Subject Experimental Research Design | 6
  - EDR 6400 | Advanced Qual Research for Ed | 6
  - GIS 5010 | Introduction to Geographic Information Systems | 6
  - MFT 6140 | Interpretive Phenomenology | 6
  - NURS 6809 | Quantitative Methods in Nursing Research | 6
  - ORES 5160 | Data Management | 6
  - ORES 5410 | Evaluation Sciences | 6
  - ORES 5260 | Pharmacoepidemiology | 6
  - ORES 5440 | Comparative Effectiveness Research | 6
  - ORLD 5020 | Applied Research Methods | 6
  - SLHS 5050 | Research for the Clinician | 6
  - SOC 5530 | Urban Ethnography | 6
  - SOC 5650 | Principles and Methods of GIScience | 6
  - SOC 5750 | Qualitative Analysis, Grounded Theory Method | 6
  - SOC 5800 | Survey Design & Sampling | 6
  - SOC 5850 | Policy Evaluation and Assessment | 6
  - SWRK 5774 | Measurement & Experimental Design | 6
  - WGST 5050 | Program Evaluation | 6

**GIS 5010 Introduction to Geographic Information Systems and SOC 5650 Principles and Methods of GIScience are the same course. Only one of these can count toward this requirement.

- **Cluster III**: Advanced statistics/analysis courses. A student would select at least two courses from this cluster.
Choose any two courses from this list to meet the advanced analysis requirement.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 5780</td>
<td>Molecular Phylogenetic Analysis</td>
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<tr>
<td>BST 5100</td>
<td>Introduction to General Linear Modeling</td>
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<tr>
<td>BST 5200</td>
<td>Survival Data Analysis</td>
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<td>BST 5210</td>
<td>Categorical Data Analysis</td>
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<td>BST 5220</td>
<td>Multilevel and Longitudinal Data Analysis</td>
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<tr>
<td>BST 5230</td>
<td>Bayesian Statistics</td>
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<tr>
<td>BST 6100</td>
<td>Causal Inference</td>
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<tr>
<td>BIOL 5190</td>
<td>Geographic Information Systems in Biology</td>
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<tr>
<td>EDR 6060</td>
<td>Research Design and Analysis</td>
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<tr>
<td>EDR 6100</td>
<td>Intermediate Applied Statistics for Education</td>
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<tr>
<td>EDR 6500</td>
<td>Multilevel Regression Models</td>
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<tr>
<td>HDS 5320</td>
<td>Inferential Modeling</td>
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<tr>
<td>NURS 6802</td>
<td>Measurement of Nursing Variables</td>
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<td>ORES 5150</td>
<td>Multivariate Analysis for Health Outcomes Research</td>
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<tr>
<td>ORES 5400</td>
<td>Pharmacoeconomics</td>
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<td>ORES 5430</td>
<td>Health Outcomes Measurement</td>
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<tr>
<td>ORLD 5030</td>
<td>Applied Analytics</td>
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<tr>
<td>PSY 6500</td>
<td>Applied Multivariable and Multivariate Statistics in Behavioral Science</td>
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<td>PSY 6600</td>
<td>Structural Equations Modeling</td>
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<td>SOC 5640</td>
<td>Demographic Methods, Analysis, and Public Policy</td>
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<td>SOC 5670</td>
<td>Spatial Demography – Applied Spatial Statistics</td>
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<tr>
<td>SOC 6100</td>
<td>Regression Analysis &amp; Non-linear Models</td>
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<tr>
<td>SWRK 6030</td>
<td>Multivariate Data Analysis</td>
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While 15 credits are required, students may take more courses and get credit for them. In order for the minor to be listed on an official University transcript, students must complete the Petition to Amend the Graduate Program (https://www.slu.edu/academics/graduate/current-students/forms-petitions/petition_to_amend_grad_program_form.pdf).

† Substitutions of coursework can only be made with the prior approval of the student's mentor and the coordinator of the research methodology minor program.

**Continuation Standards**

Students must maintain a cumulative grade point average (GPA) of 3.00 in all graduate/professional courses.

**Contact Us**

For more information about the research methodology minor, please contact:

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