Note, in many cases, students would complete some of these courses while meeting the typical requirements for their home program. Thus, although we have listed nine required courses, few students would need take nine additional courses.

**Methods (4 Required Courses)**

*Take one of the following general courses:*

- **HDSP 410/LRN_SCI 410**  Quantitative Methods I: Probability and Statistics
- **PSYCH 451**  Statistics in Experimental Design

*Take two of the following more specialized courses on quantitative methods:*

- **HDSP 411/LRN_SCI 411**  Quantitative Methods II: Regression Analysis
- **HDSP 412/LRN_SCI 412**  Quantitative Methods III: Empirical Tools for Causal Quantitative Analysis
- **PSYCH 405**  Psychometric Theory
- **PSYCH 454**  Structural Equation Modeling
- **STAT 356**  Hierarchical Linear Models
- **STAT 439**  Meta-Analysis
- **STAT 461**  Advanced Topics in Statistics

*Take one of the following qualitative methods courses:*

- **ANTHRO 389**  Ethnographic Methods and Analysis
- **HDSP 432/LRN_SCI 415/SOC 403**  Field Methods
- **HDSP 435/LRN_SCI 416**  Advanced Qualitative Methods
- **SOC 329**  Field Research and Methods of Data Collection

**Cognition and Student Learning (one required course)**

- **LRN_SCI 401**  Knowledge Representation for Learning Sciences
- **LRN_SCI 403**  Foundations of Learning Sciences
- **PSYCH 358**  Advanced Seminar in Cognition or Neuroscience
- **PSYCH 462**  Cognitive Development
- **PSYCH 466**  Analogy and Similarity
- **LRN_SCI 451**  Cognition in Contexts

**Human Development (one required course)**

- **HDSP 402**  Child Development and Social Policy
- **HDSP 403**  Adolescent Development
- **HDSP 404**  Adulthood Development and Aging
- **HDSP 413**  Theories of Human Development
- **PSYCH 488**  Social and Emotional Development

**Policy and Social Contexts of Learning (two required courses)**

- **HDSP 427**  Sociology of Education
- **HDSP 428/LRN_SCI 443**  Educational Policy: Design, Implementation and Effects
- **HDSP 430**  Economics of Social Policy
- **HDSP 442/LRN_SCI 442**  Social Policymaking and Implementation
- **HDSP/LRN_SCI 451**  Change Among Public, Private and Non-Profit Sectors
- **HDSP 451**  Economics of Education Policy
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<tr>
<td>HDSP 451</td>
<td>Intersectionality and Policy</td>
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<tr>
<td><strong>Diversity, Disparities and Equity (one required course)</strong></td>
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<tr>
<td>LRN_SCI 451</td>
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