# Psychometrics and Quantitative Psychology (Ph.D.)

## Requirements

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>PSYC 6010</td>
<td>Research Ethics and Social Justice</td>
<td>3</td>
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<tr>
<td>PSYC 520</td>
<td>Fixing Psychology's Replication Crisis</td>
<td></td>
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<tr>
<td>PSYC 6066</td>
<td>History and Systems</td>
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<tr>
<td>PSYC 5710</td>
<td>Issues in Social Psychology</td>
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<tr>
<td>PSYC 6654</td>
<td>Introduction to Neuroscience</td>
<td></td>
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<tr>
<td>PSYC 6802</td>
<td>Introduction to Psychology Statistics w/</td>
<td>15</td>
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<td>Lab</td>
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<tr>
<td>PSYC 6830</td>
<td>Psychology Research Methodology</td>
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<tr>
<td>PSYC 7804</td>
<td>Regression with Lab</td>
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<tr>
<td>PSYC 7806</td>
<td>Multidimensional Scaling</td>
<td>21</td>
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<td>PSYC 7810</td>
<td>Cluster Analysis</td>
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<td>PSYC 7812</td>
<td>Factor Analysis</td>
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<td>PSYC 7815</td>
<td>Categorical Data Analysis</td>
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<td>PSYC 7950</td>
<td>Correspondence Analysis</td>
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<td>PSYC 7960</td>
<td>Equating Test Scores</td>
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### A. Departmental Course Requirements

#### I. Ethical Bases

For II to V, Choose three out of four categories

#### II. Historical Bases

- PSYC 6066 History and Systems
- PSYC 520 Fixing Psychology's Replication Crisis

#### III. Biological Bases

- PSYC 6654 Introduction to Neuroscience

#### IV. Social and Individual Bases

- PSYC 5710 Issues in Social Psychology
- PSYC 622 Personality Theories and Research

#### V. Cognitive-Affective Bases

- PSYC 6330 Cognitive Development
- PSYC 637 Cognition and Affect

### B. Psychometrics & Quantitative Psychology Program Requirements

#### I. Statistics & Research Core Courses

Seven of the following:

- PSYC 7806 Multidimensional Scaling
- PSYC 7827 Models of Decision and Choice
- PSYC 7830 Structural Equation Modeling
- PSYC 7850 Hierarchical Linear Models
- PSYC 7920 Item Response Theory
- PSYC 7940 Bayesian Statistics
- PSYC 7950 Correspondence Analysis

If the student takes all eight courses, the extra course will be counted towards Supplemental Courses

#### II. Supplemental Courses

Seven of the following:

- PSYC 5100 Psychometric Theory
- PSYC 6106 Cognitive Assessment with Lab
- PSYC 6119 Personality Assessment with Lab
- PSYC 7811 Missing Data Analysis
- PSYC 7821 Advanced Multivariate Analysis for Psychology
- PSYC 7827 Models of Decision and Choice
- PSYC 7830 Structural Equation Modeling
- PSYC 7850 Hierarchical Linear Models
- PSYC 7920 Item Response Theory
- PSYC 7940 Bayesian Statistics
- PSYC 7950 Correspondence Analysis

### C. Department-Wide Requirements

#### I. Seminars

For 1st - 5th semesters:

- PSYC 8013 Psychometric Topics Seminar I
- PSYC 8014 Psychometric Topics Seminar II

#### II. Colloquium

For 6 Semesters:

- PSYC 8025 Research Colloquium

#### III. Research Practicum MA Thesi

- PSYC 8050 Pre-Doctoral Thesis
- PSYC 8040 Independent Research

#### IV. Ph.D Comprehensive Exam

- PSYC 0930 Psychology Doctoral Comprehensive Examination

#### V. Proposal Acceptance

- PSYC 0960 Proposal Acceptance

#### VI. Dissertation Mentoring

- PSYC 0970 Dissertation Mentoring-Psychology

Total Credits: 81

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1 More information about the Comprehensive Examination can be found on the information page on the Fordham website.

Updated: 03-31-2022