Doctor of Philosophy (PhD) Degree in the field of Psychology and a Major Concentration in Psychometrics and Quantitative Psychology

Program Learning Outcomes for the PhD Degree in the field of Psychology and a Major Concentration in Psychometrics and Quantitative Psychology

Upon completing the PhD degree in the field of Psychology and a major concentration in Psychometrics and Quantitative Psychology, students will be able to:

1. Apply the statistical and measurement concepts necessary to carry out independent research involving psychological measurement.
2. Communicate research involving psychometrics and psychological measurement effectively by writing clearly, concisely, and cogently.
3. Read critically and assess research manuscripts for their psychometric content, across psychological and multidisciplinary arenas.
4. Communicate research by presenting papers and/or presentations.
5. Write an independent and original thesis that includes a strong emphasis in psychometrics and quantitative psychology.

Requirements for the MA and PhD Degrees in the field of Psychology

MA Degree Program

The MA degree is a thesis master's degree. For general university requirements, please see Thesis Master’s Degrees (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-thesis-masters-degrees/). For additional requirements, regulations, and procedures for all graduate programs, please see All Graduate Students (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-all-degrees/). Although students are not normally admitted to study for an MA in Psychology, graduate students may earn the MA degree after obtaining approval of their candidacy for the PhD. For general university requirements for PhD degrees, please see Doctoral Degrees (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-doctoral-degrees/). For both MA and PhD degrees, students must complete a research thesis, including a public oral defense. Required coursework is determined by the student’s major concentration. Students must complete an admission-to-candidacy procedure to establish their expertise in their chosen major concentration. Competence in a foreign language is not required.

PhD Degree Program

For general university requirements, please see Doctoral Degrees (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-doctoral-degrees/). For additional requirements, regulations, and procedures for all graduate programs, please see All Graduate Students (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-all-degrees/). In addition, students pursuing the PhD degree in the field of Psychology must:

• Complete all coursework with a minimum grade of B- (2.67 grade points) in each required course.
• Complete all of the course requirements in their major concentration.
• Successfully complete and present the first-year project in May of the first year.
• Successfully complete and present the second-year project in May of the second year.
• Write and defend a thesis. The thesis committee must be in the area of Psychometrics and Quantitative Psychology and be overseen by a Psychology faculty member affiliated with the Psychometrics and Quantitative Psychology Major Concentration.

Students who have not previously completed a master’s degree in Psychology or a related field, must successfully defend a master’s thesis and earn the MA degree in Psychology. Students who come to Rice with a master’s degree in a related field can be exempted from this requirement.

Degree Requirements for the PhD Degree in Psychology and a Major Concentration in Psychometrics and Quantitative Psychology

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>PSYC 502 / STAT 509</td>
<td>ADVANCED PSYCHOLOGICAL STATISTICS I</td>
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<td>PSYC 503 / STAT 510</td>
<td>ADVANCED PSYCHOLOGICAL STATISTICS II</td>
<td>3</td>
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<tr>
<td>PSYC 507</td>
<td>RESEARCH METHODS</td>
<td>3</td>
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<td>PSYC 602</td>
<td>PSYCHOMETRICS</td>
<td>3</td>
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<tr>
<td>PSYC 631</td>
<td>FOUNDATIONS OF INDIVIDUAL DIFFERENCES</td>
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Elective Requirements

Select 3 courses from the following: 1

Summary

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<th>Code</th>
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<th>Credit Hours</th>
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<tr>
<td>Total Credit Hours Required for the MA Degree in the field of Psychology</td>
<td>30</td>
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<tr>
<td>Total Credit Hours Required for the PhD Degree in the field of Psychology and a Major Concentration in Psychometrics and Quantitative Psychology</td>
<td>90</td>
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PSYC 543  COMPUTATIONAL MODELING OF COGNITIVE PROCESSES
PSYC 601  MULTIVARIATE STATISTICS
PSYC 635  MULTILEVEL MODELING IN PSYCHOLOGICAL RESEARCH
PSYC 637  META-ANALYSIS IN PSYCHOLOGICAL RESEARCH
PSYC 638  STRUCTURAL EQUATION MODELING

First-Year Project

Second-Year Project

Thesis Requirement
Completion and public defense of a thesis

Additional Coursework as Approved by Department

| Total Credit Hours | Minimum of 90 |

Footnotes and Additional Information
1 Elective courses selected must be approved by department.

Policies for the PhD Degree in the field of Psychology

Department of Psychological Sciences Graduate Program Handbook
The General Announcements (GA) is the official Rice curriculum. As an additional resource for students, the department of Psychological Sciences publishes a graduate program handbook, which can be found here: https://gradhandbooks.rice.edu/2019_20/Psychology_Graduate_Handbook.pdf

Additional Information
For additional information, please see the Psychological Sciences website: https://psychology.rice.edu/

Opportunities for the PhD Degree in the field of Psychology

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