Doctor of Philosophy (PhD) Degree in the field of Psychology and a Major Concentration in Human-Computer Interaction and Human Factors

Program Learning Outcomes for the PhD Degree in the field of Psychology and a Major Concentration in Human-Computer Interaction and Human Factors

Upon completing the PhD degree in the field of Psychology and a major concentration in Human-Computer Interaction and Human Factors, students will be able to:

1. Learn theoretical and methodological tools to carry out independent research in human-computer interaction and human factors.
2. Write an independent and original dissertation that is of sufficient quality to merit publication in a top human factors/human-computer interaction journal.
3. Conduct a focused review of the literature and develop a research design to carry out independent research.
4. Communicate and defend their research design and modeling choices when presenting their papers and/or presentations.
5. Communicate their research effectively by writing clearly, concisely, and cogently.
6. Read critically and assess research manuscripts related to their field of study and in other fields.

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 (ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-thesis-masters-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 (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). 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 dissertation. The dissertation committee must be in the area of Human-Computer Interaction and Human Factors and be overseen by a Psychology faculty member affiliated with the Human-Computer Interaction and Human Factors 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.

Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credit Hours Required for the MA Degree in the field of Psychology</td>
<td>30</td>
</tr>
</tbody>
</table>

PhD Degree Requirements for the PhD Degree in the field of Psychology and a Major Concentration in Human-Computer Interaction and Human Factors

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 502</td>
<td>ADVANCED PSYCHOLOGICAL STATISTICS I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 503</td>
<td>ADVANCED PSYCHOLOGICAL STATISTICS II</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 520</td>
<td>FOUNDATIONS OF COGNITIVE PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 531</td>
<td>HF/HCI RESEARCH SEMINAR</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 540</td>
<td>FOUNDATIONS OF ENGINEERING PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 541</td>
<td>HUMAN-COMPUTER INTERACTION</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 609</td>
<td>METHODS IN HUMAN-COMPUTER INTERACTION</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 660</td>
<td>PROFESSIONAL ISSUES</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements

Select 5 from the following: 15
PSYC 504  COMPUTER APPLICATIONS IN PSYCHOLOGY
PSYC 522  INFORMATION PROCESSING AND ATTENTION
PSYC 524  MEMORY
PSYC 525  PSYCHOLINGUISTICS
PSYC 527  REASONING, DECISION MAKING, PROBLEM SOLVING
PSYC 530  FOUNDATIONS OF I-O PSYCHOLOGY
PSYC 543  COMPUTATIONAL MODELING OF COGNITIVE PROCESSES
PSYC 581  VISION SCIENCE
PSYC 601  MULTIVARIATE STATISTICS
PSYC 602  PSYCHOMETRICS
PSYC 630  ADVANCED TOPICS IN I/O
PSYC 634  PERSONNEL PSYCHOLOGY
PSYC 640  TOPICS IN HUMAN-COMPUTER INTERACTION

First-Year Project
Second-Year Project
Thesis Requirement
Completion and public defense of thesis
Additional Coursework as Approved by Department

Total Credit Hours  Minimum of 90

Policies for the PhD Degree in the field of Psychology and a Major Concentration in Human-Computer Interaction and Human Factors

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: http://gradhandbooks.rice.edu/2018_19/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 and a Major Concentration in Human-Computer Interaction and Human Factors

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