Psychology M.S. with Human Factors Concentration

Human Factors Psychology is the application of principles and techniques of psychology to real-world problems. In Human Factors Psychology (HFP), principles and methods associated with Cognitive Psychology are applied to the human-machine interface to improve the usability and effectiveness of the interface. The Human Factors Psychology Concentration is designed to focus on Human Factors and Ergonomics to provide students with a well-rounded foundation in psychology, the user-centered design process, and the methods used to evaluate human-machine interfaces. Students will obtain basic competency in perception, cognition, and information processing systems as well as the skills to apply this knowledge to the design of the human-machine interface. The Human Factors Psychology program is accredited by the Human Factors and Ergonomics Society.

Practicum and research experiences will be provided in laboratory and industrial settings. All students will complete a major research project prior to graduation. The concentration includes a course sequence that prepares the student to take the exam to become a Certified Professional Ergonomist (CPE) or Certified Human Factors Professional (CHFP).

For more information about applying for this concentration, please contact Dr. Nicholas Kelling at kelling@uhcl.edu.

### Degree Requirements

#### Research and Statistics (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 6036</td>
<td>Advanced Nonexperimental Methods and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6037</td>
<td>Advanced Experimental Methods and Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Core Psychology Courses (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 6030</td>
<td>Sensation and Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6832</td>
<td>Advanced Cognitive and Affective Psychology</td>
<td>3</td>
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</table>

#### Core Psychology Courses

Students must take at least two of the following three Psychology classes.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PSYC 5335</td>
<td>Learning Principles</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 5532</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6134</td>
<td>Biological Basis of Behavior</td>
<td>3</td>
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#### Required Applied Cognitive Psychology Courses (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PSYC 5932</td>
<td>Research Topics in Applied Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6431</td>
<td>User-Centered Design</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6434</td>
<td>Human Factors Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6435</td>
<td>Human Factors Methods and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6439</td>
<td>Practicum in Human Factors Psychology</td>
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</table>

#### Additional Information

PSYC 5932 must be taken for two semesters.

#### Human Factors Psychology Elective (3 hours)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
</table>
Three additional hours are selected from Psychology or other relevant disciplines with the approval of the academic adviser. These hours are designed to provide a specific disciplinary focus within Human Factors Psychology.

**Master's Option**

Choose ONE of the following options.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 6739</td>
<td>Graduate Internship</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6939</td>
<td>Master's Thesis Research</td>
<td>3</td>
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</tbody>
</table>

**Additional Information**

PSYC 6739, PSYC 6939: prerequisite PSYC 6439