Informatics, Graduate Certificate

Requirements

The graduate Certificate in Informatics requires 19 s.h. of graduate credit. Students must earn a major program grade-point average of at least 3.00 in certificate coursework. The certificate program is designed for students enrolled in University of Iowa graduate degree programs who wish to study informatics as a complement to their degree program and for nondegree students who are interested in increasing their knowledge of informatics.

The Certificate in Informatics requires the following coursework.

Required Courses

Programming

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course:</td>
<td>Introduction to Informatics</td>
<td>3</td>
</tr>
<tr>
<td>One of these:</td>
<td>Software Engineering Fundamentals in Java</td>
<td>3</td>
</tr>
<tr>
<td>CS:3210</td>
<td>Programming Languages and Tools</td>
<td>3</td>
</tr>
<tr>
<td>CS:3980</td>
<td>Topics in Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:5055/IGPI:5055</td>
<td>Geospatial Programming</td>
<td>3</td>
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Statistics

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOS:4120</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT:4143/PSQF:4143</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
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Data Science

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>One of these:</td>
<td>Knowledge Discovery</td>
<td>3</td>
</tr>
<tr>
<td>STAT:4540/BAI5:4540/DATA:4540/IGPI:4540</td>
<td>Statistical Learning</td>
<td>3</td>
</tr>
<tr>
<td>An approved course (consult advisor)</td>
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<td>3</td>
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Databases

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>One of these:</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:4580/IGPI:4581</td>
<td>Introduction to Geographic Databases</td>
<td>3</td>
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Human Factors

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<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>One of these:</td>
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<td></td>
</tr>
<tr>
<td>CS:4500</td>
<td>Research Methods in Human-Computer Interaction</td>
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</tr>
<tr>
<td>CS:4510</td>
<td>Human-Computer Interaction for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:5540/IGPI:5540</td>
<td>Geographic Visualization</td>
<td>3</td>
</tr>
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Ethics

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course:</td>
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<td></td>
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<tr>
<td>CS:5980</td>
<td>Topics in Computer Science III</td>
<td>1</td>
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Admission

Certificate program applicants may be degree or nondegree graduate students. Applicants who are enrolled in a University of Iowa graduate degree program must be in good academic standing in their program.

Applicants must meet the admission requirements of the Graduate College; see the Manual of Rules and Regulations on the Graduate College website.