## CLARION UNIVERSITY OF PENNSYLVANIA
## COLLEGE OF BUSINESS ADMINISTRATION AND INFORMATION SCIENCES
## REQUIREMENT SHEET

### REQUIREMENTS FOR MINOR IN INFORMATION SYSTEMS: 18 CREDITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR.</th>
<th>GR.</th>
<th>COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 110:</td>
<td>Intro. to Computer Concepts</td>
<td>3</td>
<td>___</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>CIS 317:</td>
<td>Microcomputer Maintenance Tech.</td>
<td>3</td>
<td>___</td>
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<tr>
<td>CIS 202:</td>
<td>Intro. to Program. &amp; Algorithms I</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 301:</td>
<td>Computer Systems Analysis</td>
<td>3</td>
<td>___</td>
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</table>

2. Additional Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR.</th>
<th>GR.</th>
<th>COMPLETED</th>
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</thead>
<tbody>
<tr>
<td>CIS 208:</td>
<td>Introduction to Robotics Programming</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 217:</td>
<td>Spreadsheets and Office Apps</td>
<td>3</td>
<td>___</td>
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<td>CIS 270:</td>
<td>Client Side Web Programming</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<td>CIS 303:</td>
<td>Local Area Networks</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 305:</td>
<td>Artificial Intelligence in Decision Making</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 306:</td>
<td>Object-Oriented Programming</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 312:</td>
<td>Special Topics in Computing</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 317:</td>
<td>Microcomputer Maintenance Concepts and Techniques</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 318:</td>
<td>Autonomous Robotics Programming Algorithms</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS 330:</td>
<td>Information Systems Programming</td>
<td>3</td>
<td>___</td>
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<tr>
<td>CIS 333:</td>
<td>Information Systems Auditing &amp; Security</td>
<td>3</td>
<td>___</td>
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<tr>
<td>CIS 370:</td>
<td>Server Side Web Programming</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<td>CIS 402:</td>
<td>Data Base Management Systems</td>
<td>3</td>
<td>___</td>
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<tr>
<td>CIS 403:</td>
<td>Data Communications</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<td>CIS 406:</td>
<td>Mobile Application Development</td>
<td>3</td>
<td>___</td>
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<td>CIS 435:</td>
<td>Machine Learning</td>
<td>3</td>
<td>___</td>
<td>___</td>
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<tr>
<td>CIS/MGMT 470: Project Management</td>
<td>3</td>
<td>___</td>
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</table>

* All courses taken in the minor must be taken for a grade as stated in the CCPS Guidelines, page 15.

* A student must present a quality point average of 2.0 on a 4.0 scale in the minor.

* At least nine credits of this minor must not also be used to satisfy requirements for the student's major.

* All courses should be checked for prerequisites.

Signatures (upon completion of the minor requirements):

________________________________________________________________________
Minor Advisor Date

________________________________________________________________________
Department Chairperson Date

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No Changes since Fall 2021