INFORMATION SYSTEMS MAJOR, BS

Campus: NYC, Westchester

Major Completion Summary

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>44-53</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>64-65</td>
</tr>
<tr>
<td>Electives</td>
<td>2-12</td>
</tr>
<tr>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

University Core Requirements

See complete University Core (http://catalog.pace.edu/undergraduate/university-core-curriculum/) requirements.

Includes several of the major-required courses listed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 131</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CS 121</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Areas of Knowledge

Two courses for each of the four Areas of Knowledge

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 211</td>
<td>Platform Technologies and Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CIT 221</td>
<td>Global Networking Technology</td>
<td>4</td>
</tr>
<tr>
<td>CIT 241</td>
<td>Database Management</td>
<td>4</td>
</tr>
<tr>
<td>CIT 261</td>
<td>Introduction to Coding in Python</td>
<td>4</td>
</tr>
<tr>
<td>CIT 262</td>
<td>Advanced Coding in Python</td>
<td>4</td>
</tr>
<tr>
<td>CIT 322</td>
<td>Distributed Computing</td>
<td>4</td>
</tr>
<tr>
<td>CIT 341</td>
<td>Systems Design and User Experience</td>
<td>4</td>
</tr>
<tr>
<td>CIT 471</td>
<td>Information Technology Internship</td>
<td>4</td>
</tr>
<tr>
<td>or CIT 481</td>
<td>Capstone in Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 251</td>
<td>Computer Security Overview</td>
<td></td>
</tr>
<tr>
<td>CIT 316</td>
<td>Visual Basic Programming</td>
<td></td>
</tr>
<tr>
<td>CIT 332</td>
<td>Multimedia and User Interface Design</td>
<td></td>
</tr>
<tr>
<td>CIT 336</td>
<td>Web Scripting</td>
<td></td>
</tr>
<tr>
<td>CIT 344</td>
<td>Project Management</td>
<td></td>
</tr>
<tr>
<td>CIT 346</td>
<td>Database Programming</td>
<td></td>
</tr>
<tr>
<td>CIT 348</td>
<td>Data Mining</td>
<td></td>
</tr>
<tr>
<td>CIT 352</td>
<td>Network and Internet Security</td>
<td></td>
</tr>
<tr>
<td>CIT 354</td>
<td>Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CIT 356</td>
<td>Operating Systems Concepts</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 113</td>
<td>Mathematical Structures for Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>MAT 111</td>
<td>Elementary Calculus I</td>
<td>(3)</td>
</tr>
<tr>
<td>MAT 234</td>
<td>Introduction to Probability and Statistical Analysis</td>
<td>(4)</td>
</tr>
</tbody>
</table>
IS Environment

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 203</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACC 204</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ECO 105</td>
<td>Principles of Economics: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 150</td>
<td>Managerial and Organizational Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MAR 201</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 64-65

1 Shared with the University Core.

Electives (2-12 Credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electives</td>
<td>2-12</td>
</tr>
</tbody>
</table>

Total Credits 2-12

1 UNV 101 First-Year Seminar: Introduction to University Community is required for all new freshmen.

Note: ENG 105C Composition and Rhetoric, MAT 100 Fundamental Mathematics, and MAT 103 Algebra cannot be used towards the 120 credits for graduation.

Course  Title  Credits
First Year
Fall
UNV 101 First-Year Seminar: Introduction to University Community 1
CIS 101 Introduction to Computing 3
ENG 110 Composition 3
or ENG 120 Critical Writing
MAT 103 Algebra 3
Learning Community 6

Credits 16

Spring
CIT 211 Platform Technologies and Architecture 4
ENG 120 Critical Writing 4
CS 113 Mathematical Structures for Computer Science 4
ECO 105 Principles of Economics: Macroeconomics 3

Credits 15

Second Year
Fall
CIT 261 Introduction to Coding in Python 4
CIT 241 Database Management 4
ACC 203 Financial Accounting 4
Civic Engagement 12

Spring
CIT 221 Global Networking Technology 4
ECO 106 Principles of Economics: Microeconomics 3
ACC 204 Managerial Accounting 4
ENG 201 Writing in the Disciplines 3
CIT 262 Advanced Coding in Python 4

Credits 18
### Third Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 111</td>
<td>Elementary Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MGT 150</td>
<td>Managerial and Organizational Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science</td>
<td>Lab Science (ENV 222/CHE 111/PHY 111/BIO 101)</td>
<td>3-4</td>
</tr>
<tr>
<td>CIT Advanced Elective</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>

| Credits           | 15-17                                      |

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 322</td>
<td>Distributed Computing</td>
<td>4</td>
</tr>
<tr>
<td>Second Language II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MAT 234</td>
<td>Introduction to Probability and Statistical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MAR 201</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AOK/ARE Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

| Credits           | 17                                         |

### Fourth Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOK/ARE Courses</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CIT Advanced Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>COM 200</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

| Credits           | 13                                         |

#### Spring

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</tr>
<tr>
<td>AOK/ARE Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

| Credits           | 14-15                                      |

| Total Credits     | 120-123                                    |