Program Activities
Courses For Nonmajors
1. Students wishing a general familiarity with computers, or computer
and information science and technology, but who do not wish to
major in computer or information science, are advised to take any of
the following courses, which do not require any CIS prerequisites, as
soon as possible:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CISC 1100</td>
<td>Structures of Computer Science</td>
<td>3-4</td>
</tr>
<tr>
<td>or CISC 1400</td>
<td>Discrete Structures</td>
<td></td>
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<tr>
<td>CISC 1600</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CISC 1610</td>
<td>and Computer Science I Lab</td>
<td></td>
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<tr>
<td>CISC 2350</td>
<td>Information and Web Programming</td>
<td>4</td>
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<tr>
<td>CISC 2500</td>
<td>Information and Data Management</td>
<td>4</td>
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<tr>
<td>CISC 2530</td>
<td>Digital Video and Multimedia</td>
<td>4</td>
</tr>
<tr>
<td>CISC 2540</td>
<td>Introduction to Video Game Design</td>
<td>4</td>
</tr>
<tr>
<td>CISC 2850</td>
<td>Computer and Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CISC 4001</td>
<td>Computers and Robots in Film</td>
<td>4</td>
</tr>
<tr>
<td>CISC 4006</td>
<td>Brains and Behavior in Beasts and Bots</td>
<td>4</td>
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</tbody>
</table>

2. Students who specifically wish to gain familiarity with web page
construction and digital media and graphics should take CISC 2350
Information and Web Programming, CISC 2530 Digital Video and
Multimedia, or CISC 2540 Introduction to Video Game Design.

3. Students wishing to have some knowledge on the applications
of computer and information science and their interface with
biomedicine and health can take CISC 4020 Bioinformatics.

4. Students majoring in science, mathematics, and social science,
who wish to pursue their further graduate studies in a field or
subject closely related to (or utilizing) quantitative, qualitative, and
algorithmic reasoning should take CISC 2850 Computer and Data
Analysis or CISC 4631 Data Mining in addition to those courses listed
in (1) above.

5. Students can take a combination of courses (listed in (1), (2), (3) and
(4) above) to fulfill a minor in computer science, information science,
or information technology and systems (see the required minor
courses in Minor section) or to prepare intellectual skills necessary in
their major study.

3-2 Cooperative Program in Engineering
This joint five-year program with Columbia University leads to a B.A.
degree from Fordham University and a B.S. degree in engineering
from Columbia University. A description of the program is given under
the Cooperative Program in Engineering section of this bulletin. The
department provides a specialized set of CS major requirements for 3-2
engineering students. Interested students should consult the computer
and information science department as early as possible.

For more information
Visit the Computer and Information Sciences department web page.

Contribution to the Core
The Department of Computer and Information Sciences offers CISC 1100
Structures of Computer Science, CISC 1400 Discrete Structures, and
CISC 1600 Computer Science I (CS1), each fulfilling the mathematical
and computational reasoning core requirement. We encourage science
and social science majors, and those interested in receiving a more
in depth understanding of algorithmic and quantitative reasoning, to
take CISC 1400 Discrete Structures instead of CISC 1100 Structures of
Computer Science.

The department also offers CISC 2540 Introduction to Video Game
Design, which satisfies the EP3 core requirement, and CISC 4001
Computers and Robots in Film and CISC 4006 Brains and Behavior in
Beasts and Bots, which satisfy the ICC core requirement.

The department also offers CISC 4650 Cyberspace: Issues and Ethics
and CISC 4660 Minds, Machines, and Society, which fulfill the Values
Seminar/EP4 core requirement.

Programs
Majors
• Computer Science Major
• Information Science Major
• Mathematics and Computer & Information Sciences Major

Minors
• Bioinformatics Minor
• Computer Science Minor
• Cybersecurity Minor
• Information Science Minor

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