Graduate School of Arts and Sciences website. Applications are made online through the department. Students must take two graduate courses in their senior year, which count toward the bachelor's degree.

The minimum GPA to be eligible to apply is 3.2 or higher. This policy applies to FCHR, FCLC, and PCS. Students opting for early admission must take two graduate courses in their senior year, which count toward both their B.A. (or B.S.) and M.S. degree. Graduate courses taken while still at the college must be approved by the associate chair for graduate studies of the department. Applications are made online through the Graduate School of Arts and Sciences website.

Students wishing to major in computer science should take CISC 1600 Computer Science I and CISC 1400 Discrete Structures in the first semester of their first year (or as soon as possible) and CISC 2000 Computer Science II in the second semester of their first year.

No computer or information science course in which a student receives a grade below C- can be credited toward a major or minor in the department.

Accelerated Master's Program

Please read the Graduate School of Arts and Sciences Accelerated Master’s Programs section of this bulletin for more information. Interested majors should speak with the associate chair of graduate studies in the fall of junior year. Students do not need to include GRE scores unless they are planning to apply for financial aid after finishing the bachelor's degree.

The minimum GPA to be eligible to apply is 3.2 or higher. This policy applies to FCHR, FCLC, and PCS. Students opting for early admission must take two graduate courses in their senior year, which count toward both their B.A. (or B.S.) and M.S. degree. Graduate courses taken while still at the college must be approved by the associate chair for graduate studies of the department. Applications are made online through the Graduate School of Arts and Sciences website.

Course Activities

Program Activities

Courses For Nonmajors

1. Students wishing a general familiarity with computers, or computer and information sciences 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>
</tr>
</thead>
<tbody>
<tr>
<td>CISC 1100</td>
<td>Structures of Computer Science</td>
<td>3 to 4</td>
</tr>
<tr>
<td>or CISC 1400</td>
<td>Discrete Structures</td>
<td></td>
</tr>
<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>
</tr>
<tr>
<td>CISC 2350</td>
<td>Information and Web Programming</td>
<td>4</td>
</tr>
<tr>
<td>CISC 2500</td>
<td>Information and Data Management</td>
<td>4</td>
</tr>
<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>
</tr>
</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 sciences 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 sciences 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
- Math and Computer & Information Sciences Major

**Minors**
- Bioinformatics Minor
- Computer Science Minor
- Cybersecurity Minor
- Information Science Minor

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