INFORMATION STUDIES MAJOR

The field of information science, particularly in an iSchool, is a field concerned with the intersections of information, people and technology. Information science is an interdisciplinary field, drawing from other areas of study such as computer science, management, social science, education, and the humanities, but with a focus on individual and institutional users of information and their information needs.

Information Science students gain the knowledge and the skills for creating information systems, resources, and services that help address society’s pressing needs in a variety of contexts and in a variety of private and public sector positions, ranging from financial services to healthcare; from information technology to consulting; and from education to cultural institutions.

Undergraduate courses offered by this college may be found under the acronym: INST.

Admission to the Major

Students who are accepted to the university and list Information Science as the preferred major will start directly in our program. Students who wish to declare Information Science as the major must complete the change of major process. Please visit infosci.umd.edu or send an email inquiry to infosci@umd.edu for details.

Program Objectives

InfoSci students gain the knowledge and the skills for creating information systems, resources, and services that help address society’s greatest needs. Through coursework, internships, extracurricular projects, and networking, InfoSci students build careers that will place them in leadership roles in information management, information technology, user-centered design, and data analytics.

Program Learning Outcomes

At the completion of this program, students will be able to:

1. Demonstrate an understanding of information design and management: the interrelationships among information consumers or creators, information content, and the conduits through which information flows.
2. Apply basic principles to the design, development and management of information to meet the needs of diverse users.
3. Assess the impact of existing or emerging technologies on information practices and the flow of information.
4. Employ state-of-the-art tools and techniques to create, manage, and analyze information.
5. Demonstrate an understanding of critical issues including the security, privacy, authenticity, and integrity of information.

Requirements

Students must earn a "C-" or better in all major requirements and an overall average of 2.0.

Course | Title | Credits
-------|-------|-------
MATH115 | Precalculus | 3
PSYC100 | Introduction to Psychology | 3

Additional information on developing a four-year academic plan can be found on the following pages:

- 4yearplans.umd.edu
- the Student Academic Success-Degree Completion Policy (https://academiccatalog.umd.edu/undergraduate/registration-academic-requirements-regulations/academic-advising) section of this catalog

STAT100 | Elementary Statistics and Probability | 3
INST126 | Introduction to Programming for Information Science | 3

Major Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INST201</td>
<td>Introduction to Information Science</td>
<td>3</td>
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<tr>
<td>INST311</td>
<td>Information Organization</td>
<td>3</td>
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<td>INST314</td>
<td>Statistics for Information Science</td>
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<tr>
<td>INST326</td>
<td>Object-Oriented Programming for Information Science</td>
<td>3</td>
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<td>INST327</td>
<td>Database Design and Modeling</td>
<td>3</td>
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<td>INST335</td>
<td>Teams and Organizations</td>
<td>3</td>
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<tr>
<td>INST346</td>
<td>Technologies Infrastructure and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INST352</td>
<td>Information User Needs and Assessment</td>
<td>3</td>
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<tr>
<td>INST362</td>
<td>User-Centered Design</td>
<td>3</td>
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<tr>
<td>INST490</td>
<td>Integrated Capstone for Information Science</td>
<td>3</td>
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Major Elective Requirements

Select ONE of the following options:

1. Complete at least 15 credits of INST-coded major electives
2. Data Science Specialization

Total Credits | 57

1 Other courses exist which fulfill this requirement. Please check with your advisor to make sure that a particular course fulfills this requirement before registering.
2 Check Testudo for currently available INST elective courses.
3 Please refer to the "Data Science Specialization" section below for specific course requirements for this option.

Data Science Specialization

The following five courses make up the Data Science Specialization. By taking these five courses as a set, student will fulfill both the Data Science Specialization requirements, and the 15-credit major elective requirement.

Course | Title | Credits
-------|-------|-------
INST354 | Decision-Making for Information Science | 3 |
INST377 | Dynamic Web Applications | 3 |
INST414 | Data Science Techniques | 3 |
INST447 | Data Sources and Manipulation | 3 |
INST462 | Introduction to Data Visualization | 3 |

Total Credits | 15

Four Year Plan

Click here (http://infosci.umd.edu/sites/default/files/bsis_program_plan_0.pdf) for roadmaps for four-year plans in the College of Information Studies.

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