INFORMATION SCIENCE AND TECHNOLOGY, MS/LIBRARY AND INFORMATION SCIENCE, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MSIST/MS Information Science and Technology

A Master of Science in Information Science and Technology/Master of Library and Information Science program prepares students for positions in information technology in all types of libraries, 54 credits.

Admission Requirements

Application Deadlines

Application deadlines vary by program, please review the application deadline chart (http://uwm.edu/graduateschool/program-deadlines/) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (https://uwm.edu/onestop/dates-and-deadlines/).

Credits and Courses

Degree Requirements

Thirty hours will be required for the MLIS and twenty-four for the MSIST. SOIS reduces the MLIS by 6 credit hours of electives in consideration of another master's degree. The requirements for the MSIST are its 8 core courses for 24 hours. In sum, for 54 credit hours a student can complete both the MLIS and MSIST degrees. Degrees will be awarded simultaneously.

- See the MSIST (http://catalog.uwm.edu/information-studies/information-science-technology-ms/) page and the MLIS (http://uwm.edu/graduateschool/library-information-science/#page) page for more information.

Information Science and Technology MS

The program requires 36 graduate-level credits, including eight, 3-credit core courses and 12 credits of electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Core Courses</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 547</td>
<td>User-Centered Interaction Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>INFOST 582</td>
<td>Introduction to Data Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>INFOST 583</td>
<td>Survey of Information Security</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>INFOST 584</td>
<td>Survey of Web and Mobile Content Development</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPST 701</td>
<td>Computing Fundamentals for IT Professionals</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPST 702</td>
<td>Software Development in Python</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPST 703</td>
<td>Software Development Life Cycle</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Culminating Course</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select 12 credits from one of the transcript designated tracks below</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>36</td>
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Electives

Electives for the User Interaction & Human Computer Interaction Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 583</td>
<td>Emerging Digital Technology:</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 782</td>
<td>Visualization 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 783</td>
<td>Visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 412</td>
<td>Advanced Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 496</td>
<td>Sequence and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 929</td>
<td>Advanced Research-Design &amp; Digital Media</td>
<td>1-4</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 522</td>
<td>Computer Game Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 713</td>
<td>Computer Vision</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 718</td>
<td>Advanced Computer Graphics: Modeling and Animation</td>
<td>3</td>
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<tr>
<td>COMPSCI 737</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 743</td>
<td>Intelligent User Interfaces</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 747</td>
<td>Principles &amp; Practices of User Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
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<tr>
<td>GEOG 405</td>
<td>cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 804</td>
<td>Advanced Remote Sensing (Previously numbered Geog 703)</td>
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## Electives for the Web and Mobile Application Design Track

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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
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<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
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<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
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<tr>
<td>ART 302</td>
<td>Art and Design Workshop:</td>
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<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3-6</td>
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<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming (G)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications (Client Side)</td>
<td>3</td>
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<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
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## Electives for the Information Security Track

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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
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<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
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## Electives for the Data Science Track

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
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<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
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<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
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<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
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<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
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<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
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## Electives for the Generalist Track

Select 12 credit hours with the faculty advisor's guidance

## Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
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<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
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<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
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</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
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</tr>
</tbody>
</table>

Total Credits 30

## Program Requirements

### Time Limit

All degree requirements must be completed within seven years from the date of initial enrollment in the Master's program.

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.