

# 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.

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

### Electives

#### Electives for the User Interaction & Human Computer Interaction Track

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

**Electives for the Web and Mobile Application Design Track**

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

**Electives for the Information Security Track**

Code	Title	Credits
INFOST 465	Legal Aspects of Information Products and Services (G)	3
INFOST 691	Special Topics in Information Science:	1-3
INFOST 761	Information Privacy	3
INFOST 788	Information Systems: Analysis and Design	3
BUS ADM 817	Infrastructure for Information Systems	3
COMPSCI 469	Introduction to Computer Security	3
COMPSCI 520	Computer Networks	3

**Electives for the Data Science Track**

Code	Title	Credits
INFOST 465	Legal Aspects of Information Products and Services (G)	3
INFOST 691	Special Topics in Information Science:	1-3
INFOST 714	Metadata	3
INFOST 716	Thesaurus Construction	3
INFOST 719	Advanced Topics in Information Organization	3
INFOST 780	XML for Libraries	3
INFOST 783	Information Storage and Retrieval	3
INFOST 785	Database Management Systems for Information Professionals	3
INFOST 788	Information Systems: Analysis and Design	3
BUS ADM 749	Data and Information Management	3
BUS ADM 816	Business Intelligence Technologies & Solutions	3
BUS ADM 810	Development of Web-Based Solutions	3
BUS ADM 741	Web Mining and Analytics	3
GEOG 525	Geographic Information Science	4
HCA/COMPSCI 744	Text Retrieval and Its Applications in Biomedicine	3
HCA 760	Biomedical and Healthcare Terminology and Ontology	3

**Electives for the Generalist Track**

Code	Title	Credits
	Select 12 credit hours with the faculty advisor's guidance	12

**Basic Required MLIS Courses**

Code	Title	Credits
<b>Core Courses</b>		
		<b>12</b>
INFOST 501	Foundations of Library and Information Science	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	

<b>Other MLIS courses</b>	<b>18</b>
Total Credits	30

**Important**

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

**Additional Requirements****Time Limit**

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