**Information Systems and Technology BS**

**Requirements:**

**General Education Requirements**

All Business majors must meet the university [general education requirements](http://bulletin.umsl.edu/generaleducationrequirements/). As part of meeting the university's general education requirements, all Business majors must complete the prerequisite courses below :

|  |  |  |
| --- | --- | --- |
| [ECON 1001](https://bulletin.umsl.edu/search/?P=ECON%201001) | Principles of Microeconomics (MOTR ECON 102) | 3 |
| [ECON 1002](https://bulletin.umsl.edu/search/?P=ECON%201002) | Principles of Macroeconomics (MOTR ECON 101) | 3 |
| [MATH 1030](https://bulletin.umsl.edu/search/?P=MATH%201030) | College Algebra (MOTR MATH 130) | 3 |
| [MATH 1100](https://bulletin.umsl.edu/search/?P=MATH%201100) | Basic Calculus | 3 |
| or [BUS AD 1107](https://bulletin.umsl.edu/search/?P=BUS%20AD%201107) | Quantitative Methods for Business | |
| [MATH 1105](https://bulletin.umsl.edu/search/?P=MATH%201105) | Basic Probability and Statistics | 3 |

**Degree Requirements**

All Business majors must meet College of Business [G.P.A., good standing and credit requirements](https://bulletin.umsl.edu/collegeofbusinessadministration/#undergraduatestudytext) as outlined in the Bulletin.

**Lower Division Business Core Requirements**

|  |  |  |
| --- | --- | --- |
| [ACCTNG 2400](https://bulletin.umsl.edu/search/?P=ACCTNG%202400) | Fundamentals of Financial Accounting | 3 |
| [ACCTNG 2410](https://bulletin.umsl.edu/search/?P=ACCTNG%202410) | Managerial Accounting | 3 |
| [BUS AD 2900](https://bulletin.umsl.edu/search/?P=BUS%20AD%202900) | Legal Environment of Business | 3 |
| [INFSYS 2800](https://bulletin.umsl.edu/search/?P=INFSYS%202800) | Information Systems Concepts and Applications | 3 |
| **Total Hours** | | **12** |

**Upper Division Requirements**

|  |  |  |
| --- | --- | --- |
| [ENGL 3120](https://bulletin.umsl.edu/search/?P=ENGL%203120) | Business Writing | 3 |

**Upper Division Non-Business or Business Requirement**

Two global awareness courses selected from an approved list maintained in the Office of Undergraduate Academic Advising in the College of Business Administration; also available on our web site[.](http://www.umsl.edu/divisions/business/)

**Upper Division Business Requirements**

|  |  |  |
| --- | --- | --- |
| [ENT 3100](https://bulletin.umsl.edu/search/?P=ENT%203100) | Applications of Entrepreneurship 1 | 3 |
| [FINANCE 3500](https://bulletin.umsl.edu/search/?P=FINANCE%203500) | Financial Management | 3 |
| [SCMA 3300](https://bulletin.umsl.edu/search/?P=SCMA%203300) | Business Analytics and Statistics | 3 |
| [SCMA 3301](https://bulletin.umsl.edu/search/?P=SCMA%203301) | Introduction to Supply Chain Management | 3 |
| [MGMT 3600](https://bulletin.umsl.edu/search/?P=MGMT%203600) | Management and Organizational Behavior | 3 |
| [MGMT 4219](https://bulletin.umsl.edu/search/?P=MGMT%204219) | Strategic Management | 3 |
| [MKTG 3700](https://bulletin.umsl.edu/search/?P=MKTG%203700) | Principles of Marketing | 3 |
| A minimum of 15 additional hours of upper division approved business electives | | 15 |
| **Total Hours** | | **36** |

**1**

Course is required for BS Accounting and all BS Business Administration majors.

**Assessment Requirement**

|  |  |  |
| --- | --- | --- |
| [MGMT 4220](https://bulletin.umsl.edu/search/?P=MGMT%204220) | Business Assessment Testing | 0 |

**Specific Requirements for the Major**

|  |  |  |
| --- | --- | --- |
| **Required Courses** | |  |
| [INFSYS 3806](https://bulletin.umsl.edu/search/?P=INFSYS%203806) | Managerial Applications of Object-Oriented Programming I | 3 |
| [INFSYS 3810](https://bulletin.umsl.edu/search/?P=INFSYS%203810) | Information Systems Analysis | 3 |
| [INFSYS 3816](https://bulletin.umsl.edu/search/?P=INFSYS%203816) | Managerial Application of Object-Oriented Programming II | 3 |
| [INFSYS 3820](https://bulletin.umsl.edu/search/?P=INFSYS%203820) | Introduction to Systems Administration | 3 |
| [INFSYS 3830](https://bulletin.umsl.edu/search/?P=INFSYS%203830) | Data Programming | 3 |
| [INFSYS 3848](https://bulletin.umsl.edu/search/?P=INFSYS%203848) | Introduction to Information Security | 3 |
| [INFSYS 3842](https://bulletin.umsl.edu/search/?P=INFSYS%203842) | Data Networks and Security | 3 |
| [INFSYS 3845](https://bulletin.umsl.edu/search/?P=INFSYS%203845) | Database Management Systems | 3 |
| [INFSYS 4850](https://bulletin.umsl.edu/search/?P=INFSYS%204850) | Information Systems Design | 3 |
| [INFSYS 4847](https://bulletin.umsl.edu/search/?P=INFSYS%204847) | IT Project Management | 3 |
| **Total Hours** | | **30** |

**1**

Seminars and Independent Studies are restricted to those offered by and approved by the Area faculty and approved by the Area Coordinator.

**Four year plan:**

|  |  |  |  |
| --- | --- | --- | --- |
| **First Year** | | | |
| **FALL** | **HOURS** | **SPRING** | **HOURS** |
| [MATH 1030](https://bulletin.umsl.edu/search/?P=MATH%201030) | 3 | [BUS AD 1107](https://bulletin.umsl.edu/search/?P=BUS%20AD%201107) or [MATH 1100](https://bulletin.umsl.edu/search/?P=MATH%201100) | 3 |
| [ENGL 1100](https://bulletin.umsl.edu/search/?P=ENGL%201100) | 3 | [ECON 1001](https://bulletin.umsl.edu/search/?P=ECON%201001) | 3 |
| [BUS AD 1000](https://bulletin.umsl.edu/search/?P=BUS%20AD%201000) or [ENT 1100](https://bulletin.umsl.edu/search/?P=ENT%201100) | 3 | [INFSYS 2800](https://bulletin.umsl.edu/search/?P=INFSYS%202800) | 3 |
| [INFSYS 1800](https://bulletin.umsl.edu/search/?P=INFSYS%201800) | 3 | EXPLORE – Humanities & Fine Arts | 3 |
| EXPLORE – Humanities & Fine Arts | 3 | EXPLORE – Math & Sciences | 3 |
| [INTDSC 1003](https://bulletin.umsl.edu/search/?P=INTDSC%201003) | 1 |  | |
|  | **16** |  | **15** |
| **Second Year** | | | |
| **FALL** | **HOURS** | **SPRING** | **HOURS** |
| [MATH 1105](https://bulletin.umsl.edu/search/?P=MATH%201105) | 3 | [ACCTNG 2410](https://bulletin.umsl.edu/search/?P=ACCTNG%202410) | 3 |
| [ACCTNG 2400](https://bulletin.umsl.edu/search/?P=ACCTNG%202400) | 3 | [BUS AD 2900](https://bulletin.umsl.edu/search/?P=BUS%20AD%202900) | 3 |
| [INFSYS 3806](https://bulletin.umsl.edu/search/?P=INFSYS%203806) | 3 | [INFSYS 3816](https://bulletin.umsl.edu/search/?P=INFSYS%203816) | 3 |
| [ECON 1002](https://bulletin.umsl.edu/search/?P=ECON%201002) | 3 | [SCMA 3301](https://bulletin.umsl.edu/search/?P=SCMA%203301) | 3 |
| CORE – Communication Proficiency | 3 | CORE – US History & Government | 3 |
|  | **15** |  | **15** |
| **Third Year** | | | |
| **FALL** | **HOURS** | **SPRING** | **HOURS** |
| [MGMT 3600](https://bulletin.umsl.edu/search/?P=MGMT%203600) | 3 | [FINANCE 3500](https://bulletin.umsl.edu/search/?P=FINANCE%203500) | 3 |
| [ENGL 3120](https://bulletin.umsl.edu/search/?P=ENGL%203120) | 3 | [MKTG 3700](https://bulletin.umsl.edu/search/?P=MKTG%203700) | 3 |
| [INFSYS 3845](https://bulletin.umsl.edu/search/?P=INFSYS%203845) | 3 | [INFSYS 3810](https://bulletin.umsl.edu/search/?P=INFSYS%203810) | 3 |
| [SCMA 3300](https://bulletin.umsl.edu/search/?P=SCMA%203300) | 3 | [INFSYS 3820](https://bulletin.umsl.edu/search/?P=INFSYS%203820) | 3 |
| EXPLORE – Humanities & Fine Arts | 3 | Cultural Diversity Requirement | 3 |
|  | **15** |  | **15** |
| **Fourth Year** | | | |
| **FALL** | **HOURS** | **SPRING** | **HOURS** |
| [INFSYS 4850](https://bulletin.umsl.edu/search/?P=INFSYS%204850) | 3 | [MGMT 4219](https://bulletin.umsl.edu/search/?P=MGMT%204219) & [MGMT 4220](https://bulletin.umsl.edu/search/?P=MGMT%204220) | 3 |
| [INFSYS 4847](https://bulletin.umsl.edu/search/?P=INFSYS%204847) | 3 | [INFSYS 3842](https://bulletin.umsl.edu/search/?P=INFSYS%203842) | 3 |
| [INFSYS 3848](https://bulletin.umsl.edu/search/?P=INFSYS%203848) | 3 | [INFSYS 3830](https://bulletin.umsl.edu/search/?P=INFSYS%203830) | 3 |
| Electives | 6 | Electives | 5 |
|  | **15** |  | **14** |
| **Total Hours: 120** | | | |

*PLEASE NOTE: This plan is an example of what a four year plan could look like for a typical student. Placement exam scores in math as well as the completion of coursework may change the plan. It should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor. All requirements are subject to change.*

Academic Tracks:

**Academic Tracks within the Information Systems and Technology Major**

Information Systems and Technology majors may choose to focus their elective hours in a particular sub-discipline of information systems and technology, or academic track. These tracks are groups of departmental courses that fit within sub-disciplines of information systems and technology and are recommendations for students wanting to pursue careers in specific sub-disciplines. Academic tracks are NOT majors and are only intended to serve as guides for courses within a particular area of information systems and technology and are represented by current faculty expertise. Selecting an academic track does not prevent a student from taking courses in another track. Students should not expect to take all recommended courses for each academic track. Students may choose not to select an academic track.

|  |  |  |
| --- | --- | --- |
| **Application Development Track (pick 2)** | |  |
| [INFSYS 3830](https://bulletin.umsl.edu/search/?P=INFSYS%203830) | Data Programming | 3 |
| [INFSYS 3844](https://bulletin.umsl.edu/search/?P=INFSYS%203844) | Developing Business Applications in .NET | 3 |
| [INFSYS 3818](https://bulletin.umsl.edu/search/?P=INFSYS%203818) | Management of Software Testing | 3 |
| [INFSYS 3868](https://bulletin.umsl.edu/search/?P=INFSYS%203868) | Secure Software Development | 3 |
| **Business Intelligence Track (pick 2)** | |  |
| [INFSYS 3830](https://bulletin.umsl.edu/search/?P=INFSYS%203830) | Data Programming | 3 |
| [INFSYS 3843](https://bulletin.umsl.edu/search/?P=INFSYS%203843) | Decision Support Systems for Business Intelligence | 3 |
| [INFSYS 3862](https://bulletin.umsl.edu/search/?P=INFSYS%203862) | Artificial Intelligence Applications for Business | 3 |
| **Cybersecurity Track (pick 2)** | |  |
| [INFSYS 3820](https://bulletin.umsl.edu/search/?P=INFSYS%203820) | Introduction to Systems Administration | 3 |
| [INFSYS 3842](https://bulletin.umsl.edu/search/?P=INFSYS%203842) | Data Networks and Security | 3 |
| [INFSYS 3858](https://bulletin.umsl.edu/search/?P=INFSYS%203858) | Advanced Security and Information Systems | 3 |
| [INFSYS 3864](https://bulletin.umsl.edu/search/?P=INFSYS%203864) | Applied Cryptography for Business | 3 |
| [INFSYS 3868](https://bulletin.umsl.edu/search/?P=INFSYS%203868) | Secure Software Development | 3 |
| [INFSYS 3878](https://bulletin.umsl.edu/search/?P=INFSYS%203878) | Information Security Risk Management and Business Continuity | 3 |
| **Legacy Systems (COBOL) Track** | |  |
| [INFSYS 3807](https://bulletin.umsl.edu/search/?P=INFSYS%203807) | Legacy Systems | 3 |
| [INFSYS 3817](https://bulletin.umsl.edu/search/?P=INFSYS%203817) | Advanced Legacy Systems | 3 |
| **Self-Directed Learning Track** | |  |
| [INFSYS 3890](https://bulletin.umsl.edu/search/?P=INFSYS%203890) | Internship in Information Systems | 1-3 |
| [INFSYS 3899](https://bulletin.umsl.edu/search/?P=INFSYS%203899) | Independent Study in Information Systems | 1-3 |
| **Web Design Track** | |  |
| [INFSYS 3847](https://bulletin.umsl.edu/search/?P=INFSYS%203847) | Web Design | 3 |
| [INFSYS 3815](https://bulletin.umsl.edu/search/?P=INFSYS%203815) | Object-Oriented Applications in Business | 3 |

**Information Systems and Technology Minor**

Requirements:

**General Requirements**

All minors are 15 credit hours or 5 courses, including business core courses.

* Students must attain a 2.0 grade point average for all courses in the minor.
* Students must attain a minimum grade of C- in each course included in the minor.
* All courses in the minor must be on a graded basis.
* A minimum of 9 credit hours of coursework included in the minor must be taken in residence at UMSL.
* One must complete a baccalaureate degree at UMSL in order for a minor to be conferred.
* A minor may be added for up to two years following completion of the baccalaureate degree

**Specific Requirements for the Minor**

Available to all students except those pursuing the Bachelor of Science in Information Systems and Technology degree. A minimum of 15 credit hours are required for the minor. Students must complete [INFSYS 2800](https://bulletin.umsl.edu/search/?P=INFSYS%202800) andfour elective courses.  At least three of the elective courses must be 3000-level or higher Information Systems and Technology (INFSYS) courses. The fourth course can be any related course from Accounting (ACCTNG), Entrepreneurship (ENT) Finance (FINANCE), International Business (INTL BUS) Management (MGMT), Marketing (MKTG), Supply Chain and Analytics (SCMA), Computer Science (CMP SCI), or a related discipline subject to approval from the department chair.

**Information Systems and Technology MS**

**Admission Requirements**

Applicants must meet the general graduate admission requirements of the Graduate School, described in the UMSL Bulletin, and the [College of Business Administration](https://www.umsl.edu/business/graduate/prospective/index.html).   Students are considered for admission to the graduate program in Information Systems and Technology only after they have formally applied for admission through the [Graduate School](http://www.umsl.edu/divisions/graduate/).  [Applications](http://www.umsl.edu/gradschool/prospective/how-to-apply.html) may be completed on-line.

In addition to Graduate School admission requirements, the following requirements apply for the MSIST program.

Applicants must have an undergraduate degree with a minimum cumulative GPA of 3.0. Students whose GPAs are between 2.75 and 2.9 may be admitted under a restricted status within the terms specified by the Graduate School.

Applicants must have foundational knowledge of data analysis and computer programming. This requirement can be fulfilled by providing evidence of prior coursework, training, or professional experience.

Applicants may also join the program without this background and complete the following coursework.

* Students without a background in data analysis could take [SCMA 5300](https://bulletin.umsl.edu/search/?P=SCMA%205300) as a graduate student to fulfill this requirement.
* Students without a background in computer programming can take  [INFSYS 6805](https://bulletin.umsl.edu/search/?P=INFSYS%206805) as a graduate student to fulfill this requirement.
* Non-native speakers of English must provide evidence of English language competency by submitting an official TOEFL or IELTS score. The minimum TOEFL score for graduate admission is 79 iBT. The minimum IELTS score is 6.0.

**Degree Requirements**

Candidates for the Master of Science in Information Systems and Technology must meet all Graduate School requirements including, but not limited to, requirements on admissions, enrollment, course policies, and academic standing as listed in the [University Bulletin](http://bulletin.umsl.edu/graduatestudy/).

The program requires a total of 30 hours for students with either business or non-business undergraduate degrees.

All students will complete:

* [INFSYS 5800](https://bulletin.umsl.edu/search/?P=INFSYS%205800) (3 hours)
* The requirements for two of the certificates listed (24 hours):
  + [Graduate Certificate in Enterprise Systems Development](http://bulletin.umsl.edu/programs/enterprise-systems-development-graduate-certificate/)
  + [Graduate Certificate in Information Security Management and Auditing](http://bulletin.umsl.edu/programs/information-security-management-and-auditing-graduate-certificate/)
  + [Graduate Certificate in Information Systems and Technology](http://bulletin.umsl.edu/programs/information-systems-and-technology-graduate-certificate/)
  + [Graduate Certificate in Business Intelligence](http://bulletin.umsl.edu/programs/business-intelligence-graduate-certificate/)
  + [Graduate Certificate in Cybersecurity](https://bulletin.umsl.edu/programs/cybersecurity-graduate-certificate/)
* One elective course from the list below or from the certificates above (3 hours). Courses may also be substituted with other courses upon approval from the Department Chair:

|  |  |  |
| --- | --- | --- |
| **Cybersecurity Courses** | |  |
| [INFSYS 6836](https://bulletin.umsl.edu/search/?P=INFSYS%206836) | Management of Data Networks and Security | 3 |
| [INFSYS 6858](https://bulletin.umsl.edu/search/?P=INFSYS%206858) | Advanced Cybersecurity Concepts | 3 |
| [INFSYS 6864](https://bulletin.umsl.edu/search/?P=INFSYS%206864) | Applied Cryptography for Business Applications | 3 |
| [INFSYS 6888](https://bulletin.umsl.edu/search/?P=INFSYS%206888) | Capstone in Information Security | 3 |
| **Information Systems and Technology Management** | |  |
| [INFSYS 6838](https://bulletin.umsl.edu/search/?P=INFSYS%206838) | Business Processes: Design, Management and Integration | 3 |
| [INFSYS 6847](https://bulletin.umsl.edu/search/?P=INFSYS%206847) | Project Management | 3 |
| **Experiential Learning, Research, and Emerging Topics** | |  |
| [INFSYS 5890](https://bulletin.umsl.edu/search/?P=INFSYS%205890) | Graduate Internship in Information Systems | 1 |
| [INFSYS 5899](https://bulletin.umsl.edu/search/?P=INFSYS%205899) | Individual Research in Information Systems | 1 |
| [INFSYS 6891](https://bulletin.umsl.edu/search/?P=INFSYS%206891) | Seminar in Information Systems | 3 |

**Information Systems and Technology MS Accelerated Master's Degree**

The Accelerated BS-MS in Information Systems and Technology program provides an opportunity for students to earn their BS and MS degrees in Information Systems and Technology (IST) in as few as 10 semesters.

The accelerated program reduces time to completion by requiring a minimum of 138 credit hours instead of the typical 150 credit hours if the degrees were pursued separately (120 for BS and 30 for MS). The program allows undergraduate students, in their Junior and Senior years, to take up to 12 credit hours of graduate courses and count those graduate courses to also fulfill some of their undergraduate degree requirements. Students then proceed to take the remaining 18 graduate credit hours to fulfill their graduate degree requirements.

Students are required to work closely with both BS and MS Program Advisors to ensure that the correct levels of required courses are completed in a timely manner and in the appropriate sequence.

**Eligibility**

Undergraduate students can apply to the Chair of the Information Systems and Technology Department for admission to the Accelerated MS degree program during the semester they will complete 60 undergraduate credit hours. A cumulative grade point average of 3.0 or higher is required.

**Admission Requirements**

Admission to the Accelerated MS-IST program and Graduate School proceeds in two phases: 1) Provisional Admission and 2) Graduate Admission.

**Provisional Admission**

Undergraduate BS-IST students are considered for provisional admission to Graduate School if they meet the following criteria.

* Have earned 60 credit hours as an undergraduate
* Have a minimum GPA of 3.0
* Have met with both the BS and MS Academic Advisors in Information Systems and Technology

The IST Department Chair, in consultation with the Undergraduate Advisor and Graduate Program Director, will determine whether the student can apply for provisional status. Provisionally admitted students are still classified as undergraduates but may begin obtaining the 12 graduate credits that will apply toward both their MS and BS degrees. Graduate courses completed by undergraduate students, who have been provisionally admitted to the Accelerated MS-IST program, will be charged at the undergraduate tuition rate. However, these courses will count toward the MS-IST degree while also fulfilling the requirements of BS-IST.

These courses must be approved before the semester starts. Therefore, it is recommended to apply for provisional status as a junior, preferably in the first semester of the junior year.

**Graduate Admission**

Applicants are considered for admission to the Graduate School if they meet the following criteria.

* Are in their final semester in undergraduate status
* Have a minimum GPA of 3.0 since being granted provisional status
* Have met with the MS Academic Advisor in Information Systems and Technology

The MS Academic Advisor, in consultation with the BS Academic Advisor, will determine whether the student can apply for graduate admission. Final decisions concerning graduate admission are made by the Graduate School in consultation with the IST Department Chair and Graduate Program Director. Students admitted at this stage are conferred graduate status and must continue taking graduate courses until the completion of the MS degree.

**Program Requirements**

Eligible undergraduate BS in Information Systems and Technology pursuing the Accelerated MS in Information Systems and Technology degree option will be required to take the following four graduate courses (12 credits), which will count toward both their undergraduate and graduate degree requirements.

|  |  |  |
| --- | --- | --- |
| [INFSYS 6828](https://bulletin.umsl.edu/search/?P=INFSYS%206828) | Principles of Information Security | 3 |
| [INFSYS 6830](https://bulletin.umsl.edu/search/?P=INFSYS%206830) | Data Programming for Business Intelligence | 3 |
| [INFSYS 6840](https://bulletin.umsl.edu/search/?P=INFSYS%206840) | Information Systems Analysis | 3 |
| [INFSYS 6845](https://bulletin.umsl.edu/search/?P=INFSYS%206845) | Database Management Systems | 3 |
| **Total Hours** | | **12** |

Additionally, students must complete six other INFSYS courses listed under one or more of the following graduate certificates:  [Business Intelligence](https://bulletin.umsl.edu/programs/business-intelligence-graduate-certificate/#requirementstext), [Cybersecurity](https://bulletin.umsl.edu/programs/cybersecurity-graduate-certificate/#requirementstext), [Enterprise Systems Development](https://bulletin.umsl.edu/programs/enterprise-systems-development-graduate-certificate/#requirementstext), [Information Systems and Technology](https://bulletin.umsl.edu/programs/information-systems-and-technology-graduate-certificate/#requirementstext), or [Information Security Management and Auditing](https://bulletin.umsl.edu/programs/information-security-management-and-auditing-graduate-certificate/#requirementstext) and meet all Graduate School requirements.

**Awarding of Degrees**

The student may apply for and receive the bachelor’s degree in the semester when all the undergraduate requirements are completed. In their final semester in undergraduate status, the student must apply and be admitted to the graduate program, to begin the following semester. The student will apply to receive the master’s degree in the semester that the requirements for the graduate degree will be completed.

If the student fails to enroll for more than one year after receiving the bachelor's degree, the student can still earn the master’s degree, but the graduate-level credits earned as an undergraduate cannot be used for the graduate degree.

**Information Systems and Technology MS Accelerated Master's Degree with Cybersecurity BS**

The Accelerated BS in Cybersecurity (IST Emphasis)-MS in Information Systems and Technology (MSIST) program provides an opportunity for students to earn their BS in Cybersecurity with IST Emphasis and MS in Information Systems and Technology in as few as 10 semesters.

The accelerated program reduces time to completion by requiring a minimum of 138 credit hours instead of the typical 150 credit hours if the degrees were pursued separately (120 for BS and 30 for MS). The program allows undergraduate students, in their Junior and Senior years, to take up to 12 credit hours of graduate courses and double count those graduate courses to also fulfill some of their undergraduate degree requirements. Students then proceed to take the remaining 18 graduate credit hours to fulfill their graduate degree requirements.

Students are required to work closely with both BS and MS Program Advisors to ensure that the correct levels of required courses are completed in a timely manner and in the appropriate sequence.

**Eligibility**

Undergraduate students can apply to the Chair of the Information Systems and Technology Department for admission to the Accelerated MSIST degree program during the semester they will complete 60 undergraduate credit hours. A cumulative grade point average of 3.0 or higher is required.

**Admission Requirements**

Admission to the Accelerated MSIST program and Graduate School proceeds in two phases: 1) Provisional Admission and 2) Graduate Admission.

**Provisional Admission**

Undergraduate BS in Cybersecurity with Information Systems and Technology Emphasis students are considered for provisional admission to Graduate School if they meet the following criteria.

* Have earned 60 credit hours as an undergraduate
* Have a minimum GPA of 3.0
* Have met with both the BS and MS Academic Advisors in Information Systems and Technology

The IST Department Chair, in consultation with the Undergraduate Advisor and Graduate Program Director, will determine whether the student can apply for provisional status.  Provisionally admitted students are still classified as undergraduates but may begin obtaining the 12 graduate credits that will apply toward both their MS and BS degrees. Graduate courses completed by undergraduate students, who have been provisionally admitted to the Accelerated MS in Information Systems and Technology program, will be charged at the undergraduate tuition rate. However, these courses will count toward the MS in Information Systems and Technology degree while also fulfilling the requirements of BS in Cybersecurity with Information Systems and Technology Emphasis. These courses must be approved in advance to count toward both degrees. Therefore, it is recommended to apply for provisional status as a junior, preferably in the first semester of the junior year.

**Graduate Admission**

Applicants are considered for admission to the Graduate School if they meet the following criteria.

* Are in their final semester in undergraduate status
* Have a minimum GPA of 3.0 since being granted provisional status
* Have met with the MS Academic Advisor in Information Systems and Technology

The MS Academic Advisor, in consultation with the BS Academic Advisor, will determine whether the student can apply for graduate admission. Final decisions concerning graduate admission are made by the Graduate School in consultation with the IST Department Chair and Graduate Program Director. Students admitted to the graduate program must take graduate courses until completing the MS Information Systems and Technology degree.

**Program Requirements**

Eligible undergraduate BS in Cybersecurity with Information Systems and Technology Emphasis students pursuing the Accelerated MS in Information Systems and Technology degree option will be required to take the following four graduate courses (12 credits), which will count toward both their undergraduate and graduate degree requirements.

|  |  |  |
| --- | --- | --- |
| [INFSYS 6828](https://bulletin.umsl.edu/search/?P=INFSYS%206828) | Principles of Information Security | 3 |
| [INFSYS 6836](https://bulletin.umsl.edu/search/?P=INFSYS%206836) | Management of Data Networks and Security | 3 |
| [INFSYS 6858](https://bulletin.umsl.edu/search/?P=INFSYS%206858) | Advanced Cybersecurity Concepts | 3 |
| [INFSYS 6864](https://bulletin.umsl.edu/search/?P=INFSYS%206864) | Applied Cryptography for Business Applications | 3 |
| **Total Hours** | | **12** |

Additionally, students must complete all the remaining requirements of the MS in Information Systems and Technology degree and meet all Graduate School requirements.

**Awarding of Degrees**

The student may apply for and receive the bachelor’s degree in the semester when all the undergraduate requirements are completed. In their final semester in undergraduate status, the student must apply and be admitted to the graduate program, to begin the following semester. The student will apply to receive the master’s degree in the semester that the requirements for the graduate degree will be completed.

If the student fails to enroll for more than one year after receiving the bachelor's degree, the student can still earn the master’s degree, but the graduate-level credits earned as an undergraduate cannot be used for the graduate degree.

**Information Systems and Technology Graduate Certificate**

**Admission Requirements**

Applicants must meet general University of Missouri-St. Louis Graduate School admissions requirements.

**Certificate Requirements**

All course prerequisites and all course waivers are applicable. Substitute courses may be approved by the appropriate department chairperson and the Director of Graduate Business Programs.   
This 12 credit hour certificate program also counts toward the 30 credit hour Master of Science in Information Systems and Technology degree program requirements. Students may choose to combine this certificate with other courses and/or certificates to obtain the Master of Science in Information Systems and Technology degree.

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| [INFSYS 6805](https://bulletin.umsl.edu/search/?P=INFSYS%206805) | Applications of Programming for Business Solutions | 3 |
| or [INFSYS 6806](https://bulletin.umsl.edu/search/?P=INFSYS%206806) | Managerial Applications of Object-Oriented Technologies | |
| [INFSYS 6840](https://bulletin.umsl.edu/search/?P=INFSYS%206840) | Information Systems Analysis | 3 |
| [INFSYS 6845](https://bulletin.umsl.edu/search/?P=INFSYS%206845) | Database Management Systems | 3 |
| [INFSYS 6850](https://bulletin.umsl.edu/search/?P=INFSYS%206850) | Information Systems Design | 3 |
| **Total Hours** | | **12** |

The required courses may be substituted with other courses with the approval of the Chair of the Information Systems and Technology Department.