

Choose  
UMSL

And your major.

# Information Systems & Technology BS

*The BS (Information Systems and Technology) provides students with technical knowledge in IT including application development, business intelligence, cybersecurity, and systems analysis and design. Students can also select IT electives to personalize and strengthen their knowledge in specific areas of interest to them. Through complementary business courses, students will learn about business processes, costs and budgets associated with business technology infrastructure, resource management and communication skills. The curriculum is guided by an advisory board consisting of senior IT leaders and CIOs. The program is STEM designated making students eligible for grants, scholarships, and numerous job opportunities.*

## Career Outlook

The US Bureau of Labor Statistics projects double-digit growth in IT jobs over the coming decade. BS (Information Systems and Technology) graduates are prepared to apply IT and business knowledge to understand the technology landscape, help organizations streamline their business processes with the aid of technology and enable the alignment of IT plans with business plans. Due to the value they bring, graduates are hired by local and national companies and quickly rise in technology management roles. They enjoy high job satisfaction and compensation in their careers.

## Future Career Options

- Application developer
- Business analyst
- Business intelligence specialist
- Cybersecurity analyst
- Database designer
- IT manager
- Helpdesk manager
- Technical writer

## Skills developed by degree completion

- Evaluate ethical considerations in all dimensions of business and technology use.
- Strategically advise how information systems enable business practices.
- Demonstrate competency in the analysis, design, implementation and use of information systems for the solution of business problems.
- Exhibit specialized technical expertise in application development, business intelligence, and cybersecurity.
- Communicate an integrated understanding of technology and information management to a range of audiences.

**4-YEAR ACADEMIC MAP**

*Successful alumni have gone on to fulfill many of the opportunities above. Additional possibilities are taken from the Bureau of Labor Statistics. Contact an advisor to discuss additional future career options.*

# Bachelor of Science in Information Systems & Technology

Year

1

## FALL SEMESTER (16 credit hours)

MATH 1030: College Algebra (3)  
 ENGL 1100: First-Year Writing (3)  
 BUS AD 1000: Introduction to Business, OR  
 ENT 1100: Introduction to Entrepreneurship (3)  
 INFSYS 1800: Computers and Information Systems (3)  
 GEN ED EXPLORE: Humanities & Fine Arts (3)  
 INTDSC 1003: University Studies (1)

## SPRING SEMESTER (15 credit hours)

BUS AD 1107: Quantitative Methods, OR  
 MATH 1100: Basic Calculus (3)  
 ECON 1001: Principles of Microeconomics (3)  
 INFSYS 2800: Information Systems Concepts and Applications (3)  
 GEN ED EXPLORE: Humanities & Fine Arts (3)  
 GEN ED EXPLORE: Math & Sciences (3)

Year

2

## FALL SEMESTER (15 credit hours)

MATH 1105: Basic Probability and Statistics (3)  
 ACCTNG 2400: Fundamentals of Financial Accounting (3)  
 ECON 1002: Principles of Macroeconomics (3)  
 INFSYS 3806: Managerial Applications of Object-Oriented Programming I (3)  
 GEN ED CORE: Communication Proficiency (3)

## SPRING SEMESTER (15 credit hours)

ACCTNG 2410: Managerial Accounting (3)  
 BUS AD 2900: Legal Environment of Business (3)  
 INFSYS 3816: Managerial Application of Object-Oriented Programming II (3)  
 GEN ED EXPLORE: Humanities & Fine Arts (3)  
 INFSYS 3820: Introduction to Systems Administration (3)

Year

3

## FALL SEMESTER (15 credit hours)

MGMT 3600: Management and Organizational Behavior (3)  
 ENGL 3120: Business Writing (3)  
 INFSYS 3845: Database Management Systems (3)  
 SCMA 3300: Business Analytics and Statistics (3)  
 GEN ED CORE: US History & Government (3)

## SPRING SEMESTER (15 credit hours)

FINANCE 3500: Financial Management (3)  
 MKTG 3700: Basic Marketing (3)  
 INFSYS 3810: Information Systems Analysis (3)  
 SCMA 3301: Introduction to Supply Chain Management (3)  
 Cultural Diversity Requirement (3)

Year

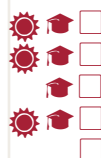
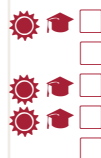
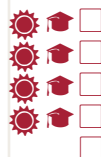
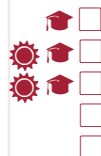
4

## FALL SEMESTER (15 credit hours)

INFSYS 4850: Information Systems Design (3)  
 INFSYS 4847: IT Project Management (3)  
 INFSYS 3848: Introduction to Information Security (3)  
 Electives (6)

## SPRING SEMESTER (14 credit hours)

MGMT 4219: Strategic Management (3)  
 & MGMT 4220: Business Assessment (0)  
 INFSYS 3842: Data Networks and Security (3)  
 INFSYS 3830: Data Programming (3)  
 Electives (5)



## 2021-2022 4-YEAR ACADEMIC MAP

This is a sample academic map for the courses to take each academic semester/session. **This map is not a substitute for academic advisement.** Contact your advisor when making final selections.



### – University Studies

is required for all first-year students and those with less than 24 credit hours.



### – Milestone courses

should be taken in the order shown to ensure you stay on a timely and accurate path toward graduation.



– **Summer and Intersession courses** Don't forget that summers and winter breaks are a way to fast-track your route to degree completion – and lighten your load during fall and spring!



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**Degree completed!**