

BACHELOR OF INFORMATION TECHNOLOGY, CYBERSECURITY EMPHASIS 2024-25

For more information about policies and requirements, please see the UMKC 2024-25 Catalog.

FIRST YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
MATH 210 Calculus I	4	COMP-SCI 191 Discrete Structures I	3
COMP-SCI 101 Problem Solving & Programming I	3	COMP-SCI 201R Problem Solving & Programming II	3
COMP-SCI 101L Problem Solving & Programming I Lab	1	COMP-SCI 201L Problem Solving & Programming II Lab	1
GEFSE 101 First Semester Experience	3	STAT 235 Elementary Statistics	3
ENGLISH 110 English I: Intro to Academic Prose	3	ENGLISH 225 English II: Intermed Academic Prose	3
		GECRT-SS Critical Thinking in Social & Behavioral Sciences	3
TOTAL	14	TOTAL	16

SECOND YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
COMP-SCI 291 Discrete Structures II	3	COMP-SCI 281R Computer Architecture & Organization (Meets GECRT-SC req)	3
COMP-SCI 303 Data Structures	3	INFO-TEC 222 Multimedia Production & Concepts	3
ACCTNG 210 Introduction to Financial Accounting	3	Life Science Elective*	3-5
ECON 202 Intro to Economics II	3	MKT 324 Principles of Marketing	3
Communication Requirement (COMM-ST 110, 140, 212 or 277)	3	GECRT-AH Critical Thinking in Arts & Humanities	3
TOTAL	15	TOTAL	15-17

THIRD YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
COMP-SCI 304 Ethics & Professionalism (Meets GECUE req)	3	DSOM 340 Supply Chain/Operations Mgmt OR MGT 332 Principles of Org Behavior	3
COMP-SCI 320 Data Communications & Networking	3	COMP-SCI 470 Database Management	3
COMP-SCI 431 Operating Systems	3	COMP-SCI 361 Intro to Cybersecurity	3
INFO-TEC 321 Intro to Computer Resources Administration	3	Business Elective (300/400 level)	3
GECDV Culture & Diversity Course	3	Physical Science Elective*	3-5
TOTAL	15	TOTAL	15-17

FOURTH YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
COMP-SCI 426 Network Security	3	COMP-SCI 451R Software Engineering Capstone	3
COMP-SCI 436 Digital Forensics	3	COMP-SCI 483 Software Security	3
COMP-SCI 449 Foundations of Software Engineering	3	Business Elective (300/400 level)	3
COMP-SCI 456 Human Computer Interface	3	INFO-TEC 491 Internship	1
Constitution Requirement (HIST 101 OR 102; POL-SCI 210, CJC 364, or HON 230)	3	General Elective	3
TOTAL	15	TOTAL	13

Additional Graduation Requirements: Civics Exam, HEIghten Exit Exam.

Total Credits to Graduate: 120

*One of the science courses must have a lab.

School of Science and Engineering

Why Major in Information Technology



Beyond The Classroom

Students build experience by participating in any of our **student-led teams or organizations**:

- Computer Science Club
- Esports
- Game Development Club
- UMKC Robotics
- Society of Women Engineers (SWE)
- SSE Student Government
- Women in Science

Students have access to \$1 million-worth of equipment housed in our **High Performance Computing Lab**.

Our **Information Technology degree is ABET-accredited** providing assurance that our curriculum meets the standards for professional advancement.

Students will **complete an internship** as part of their degree providing them with valuable skills, experiences, and connections prior to graduation.



Personalize Your Degree

Students have the opportunity to earn an **emphasis in Cybersecurity** and easily add a variety of minors, especially a **minor in Business Administration**.

This degree prepares students for a variety of employment opportunities through a **combination of computer science, IT, and business coursework** with flexibility to select specialized electives.

Get exposure to blockchain technologies, digital forensics, distributed computing systems, network security and more.

Participate in innovative and ground-breaking **undergraduate research** alongside faculty mentors.

Easily earn a **master's degree** through our BS to MS program which allows students to complete a graduate degree at undergraduate tuition rates.



After Graduation

SSE offers two **STEM Career Fairs** every year to connect students with industry professionals from the **more than 3,900 tech companies** in the area.

Kansas City's **tech sector is growing faster** than the national average with strengths in:

- financial tech, cybersecurity, integrated solutions, entrepreneurship, and telecommunications

The Kansas City metro region is home to over **100,000 technology jobs** making year-round internships and future employment more accessible to students.

An Information Technology degree opens doors to a **wide variety of career options**:

- business analyst, network architect, information security analyst, database administrators, software developers, and more!