

BACHELOR OF INFORMATION TECHNOLOGY, 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 431 Operating Systems | 3 | COMP-SCI 470 Database Management | 3 |
| INFO-TEC 321 Intro to Computer Resources Administration | 3 | COMP-SCI/INFO-TEC Elective (300/400 level) | 3 |
| COMP-SCI 320 Data Communications & Networking | 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 449 Foundations of Software Engineering | 3 | COMP-SCI 451R Software Engineering Capstone | 3 |
| COMP-SCI 456 Human Computer Interface | 3 | Business Elective (300/400 level) | 3 |
| COMP-SCI/INFO-TEC Elective (300/400 level) | 3 | COMP-SCI/INFO-TEC Elective (300/400 level) | 3 |
| Constitution Requirement (HIST 101 OR 102; POL-SCI 210, CJC 364, or HON 230) | 3 | INFO-TEC 491 Internship | 1 |
| General Elective | 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!