

# Master of Science in Information Technology

The master's of information technology degree focuses on the applied aspects of technologies and practices used to provide digital services to customers within industry. These focus areas range from telecommunications, software development, cyber security, systems management, policy construction, and legal / regulatory concerns around tech use in an evolving world. Graduate students are expected to learn and demonstrate competency in solving real world problems with real world technologies. Additionally, courses in this program require students to organize into work groups, complete collective assignments, and practice peer leadership to accomplish goals. Graduates of this program should be capable of analyzing and solving complex technological issues and feel comfortable assuming managerial or executive roles in industry.

## Admission

An applicant seeking to pursue graduate study may be admitted as either a degree-seeking or non-degree seeking student. Policies and procedures of Graduate Studies govern the process of Graduate admission. These may be found in the Graduate Studies (<https://catalog.ku.edu/graduate-studies/>) section of the online catalog.

For more information on admission to a graduate certificate program at KU, see the policy on Admission to Graduate Study (<https://policy.ku.edu/graduate-studies/admission-to-graduate-study/>). Applications may be submitted at [gradapply.ku.edu/apply](https://gradapply.ku.edu/apply) (<https://gradapply.ku.edu/apply>).

The master of science degree in information technology (M.S.I.T.) is designed for information technology (IT) professionals in the Kansas City area. Courses are offered in the evening on the Edwards Campus, which is conveniently located in Johnson County. The M.S.I.T. program is intended for students with a bachelor's degree in information technology, computer science, computer information systems, computer engineering, or a related field for their advanced studies, or for those who seek additional academic studies for professional growth or career advancement. A student with good preparation in other fields of engineering, mathematics, business, or science may qualify by taking appropriate additional undergraduate courses. Such courses normally do not count toward the graduate degree. All applications are subject to department review prior to acceptance.

## Admissions Requirements:

1. Online application: [gradapply.ku.edu/apply](https://gradapply.ku.edu/apply) (<https://gradapply.ku.edu/apply>)
2. Application fee
3. An official copy of transcripts
4. Three letters of recommendation
5. Current professional résumé
6. Statement of purpose
7. An undergraduate degree in a computing or related discipline with a GPA of 2.75 or better
8. For applicants with at least two years of practical work experience in IT, no GRE scores will be required. For those who would like to take the GRE exam, the requirements are as follows: 146+ verbal, 155+ quantitative (mean GRE: 152 verbal, 163 quantitative).

9. International applicants must meet KU's English proficiency, visa and financial support document requirement

## M.S. Degree Requirements

Please refer to the Plan of Study below for the corresponding degree program. Students will work with their academic success coach and/or program director to finalize course selections to meet department and university requirements for degree completion and complete their Plan of Study. You may tailor your degree by selecting an area of focus: IT Project Management, Cybersecurity, or Software Engineering.

| Code                                     | Title  | Hours |
|--|--|-------|
| <b>Focus Area: IT Project Management</b> |  |       |
| ITEC 711                                 | Security Management and Audit                                  | 3     |
| ITEC 810                                 | Software Engineering and Management                            | 3     |
| ITEC 811                                 | IT Project Management  | 3     |
| or PFS 804                               | Project Management for Professionals                           |       |
| PFS 803                                  | Financial Management for Professional Success                  | 3     |
| EMGT 821                                 | Strategic Management of Technology Projects                    | 3     |
| Plus 15 hours of electives               |  |       |
| <b>Focus Area: Cybersecurity</b>         |  |       |
| ITEC 710                                 | Information Security and Assurance                             | 3     |
| ITEC 711                                 | Security Management and Audit                                  | 3     |
| ITEC 712                                 | Network Security and its Application                           | 3     |
| ITEC 780                                 | Communication Networks   | 3     |
| ITEC 811                                 | IT Project Management  | 3     |
| or PFS 804                               | Project Management for Professionals                           |       |
| Plus 15 hours of electives               |  |       |
| <b>Focus Area: Software Engineering</b>  |  |       |
| ITEC 780                                 | Communication Networks   | 3     |
| ITEC 810                                 | Software Engineering and Management                            | 3     |
| ITEC 811                                 | IT Project Management  | 3     |
| or PFS 804                               | Project Management for Professionals                           |       |
| ITEC 814                                 | Software Quality Assurance                                     | 3     |
| ITEC 818                                 | Software Architecture  | 3     |
| Plus 15 hours of electives               |  |       |
| <b>Electives:</b>                        |  |       |
| ITEC 710                                 | Information Security and Assurance                             | 3     |
| ITEC 711                                 | Security Management and Audit                                  | 3     |
| ITEC 712                                 | Network Security and its Application                           | 3     |
| ITEC 714                                 | Information Security and Cyber Law                             | 3     |
| ITEC 746                                 | Database Systems   | 3     |
| ITEC 780                                 | Communication Networks   | 3     |
| ITEC 810                                 | Software Engineering and Management                            | 3     |
| ITEC 814                                 | Software Quality Assurance                                     | 3     |
| ITEC 818                                 | Software Architecture  | 3     |
| PFS 730                                  | Writing and Speaking for Decision Makers                       | 3     |
| PFS 801                                  | Interpersonal and Persuasive Communication Skills for Managers | 3     |
| PFS 802                                  | Managing Teams and Leading People                              | 3     |
| PFS 803                                  | Financial Management for Professional Success                  | 3     |
| PMGT 808                                 | Lean Six Sigma   | 3     |

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|----------|---|---|
| PMGT 842 | Project Management in an Agile Environment  | 3 |
| EMGT 821 | Strategic Management of Technology Projects | 3 |