

# Bachelor of Science in Information Technology

## Bachelor of Science in Information Technology Program

Graduates who have earned a bachelor's degree in information technology will combine technical expertise with modern problem-solving and communication skills to plan, configure, implement, integrate, and maintain computing and information technology solutions for an organization's computing infrastructure.

The undergraduate program in Information Technology is offered in its entirety only at the KU Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213. Students considering this degree option should contact the Information Technology academic success coach on the Edwards Campus, bsit@ku.edu, or 913-897-8623 for advising.

*This program is funded by the Education and Research Triangle (<http://edwardscampus.ku.edu/johnson-county-education-research-triangle/>) initiative.*

### Careers

#### Professional Opportunities

Information technology (IT) professionals are needed in nearly every business sector. They may find careers in information security, software development, platform technologies, network and system administration, Web system development, and IT project management.

### Undergraduate Admission to the B.S. in Information Technology Program

Applications to the B.S. in Information Technology program will generally be considered under the guidelines of the Transfer Admission Standards. In addition, to be considered for admission, students will need to complete the B.S. in Information Technology prerequisite course work listed below.

### B.S. in Information Technology Prerequisite Course Work

The successful completion of the following requirements is needed for admission into the B.S. in Information Technology program:

Code	Title	Hours
Satisfy GE 2.1 (Typically completed with ENGL 101 and ENGL 102.) (Recommended) <sup>1</sup>		6
Satisfy GE 2.2 (Typically completed with COMS 130, COMS 322, or JOUR 150.) (Recommended) <sup>1</sup>		3
Satisfy KU Core Goal GE3N (Recommended)		4-5
Satisfy KU Core Goal GE3S (Recommended)		3
Satisfy KU Core Goal GE3H (Recommended)		3
Satisfy KU Core Goal AE4.1 or AE 4.2 (Recommended)		3
MATH 101	College Algebra: _____	3
or MATH 103	Trigonometry	
or MATH 104	Precalculus Mathematics	
or MATH 115	Calculus I	
or MATH 125	Calculus I	

or MATH 290	Elementary Linear Algebra	
PHSX 114	College Physics I (Meets KU Core goal GE 1.1)	4
or PHSX 210 & PHSX 216	General Physics I for Engineers and General Physics I Laboratory	
or PHSX 211	General Physics I	
Discrete Structures I <sup>2</sup>		3
Discrete Structures II <sup>2</sup>		3
Programming Fundamentals <sup>2</sup>		4
EECS 168	Programming I	4
EECS 268	Programming II	4
UNIX Scripting and Utilities <sup>3</sup>		3
Database Management <sup>3</sup>		4

- <sup>1</sup> Means of satisfying KU Core Goals are chosen from a variety of options (see [kucore.ku.edu](http://kucore.ku.edu) (<http://kucore.ku.edu>)). Hours listed are assuming the goals are satisfied with course work.
- <sup>2</sup> This specific course is not offered at KU, however an equivalent course from KU may be substituted. Consult your advisor.
- <sup>3</sup> No equivalent course is offered at KU; it must be transferred from a different college or university. Consult your advisor.

## Bachelor of Science in Information Technology Degree Requirements

### The KU Core

This is the university-wide curriculum that all incoming undergraduate students will complete as part of their degree requirements. It comprises three general education goals and three advanced education goals. Associated with each goal is one or more learning outcomes:

- GE 1.1, Goal 1/Outcome 1, Critical Thinking;
- GE 1.2, Goal 1/Outcome 2, Quantitative Literacy;
- GE 2.1, Goal 2/Outcome 1, Written Communication;
- GE 2.2, Goal 2/Outcome 2, Oral Communication;
- GE 3H, Goal 3/Outcome 1, Arts & Humanities;
- GE 3N Goal 3/Outcome 2, Natural Sciences;
- GE 3S Goal 3 /Outcome 3, Social Sciences;
- AE 4.1, Goal 4/Outcome 1, Diversity;
- AE 4.2 Goal 4/Outcome 2 Culture;
- AE 5.1, Goal 5/Outcome 1, Social Responsibility & Ethics (course);
- AE 5.2, Goal 5/Outcome 2, Social Responsibility & Ethics (practice);
- AE 6.1, Goal 6/Outcome 1/2, Integration & Creativity.

Details of the KU Core can be found at [kucore.ku.edu](http://kucore.ku.edu) (<http://kucore.ku.edu>). Some required courses in the IT curricula satisfy a KU Core goal and/or outcome <sup>4</sup>. For these courses, the goal/outcome code is given in parentheses after the course on the pages below. Where required courses do NOT specifically satisfy KU Core goals (Goals 2, 3, and 4) students must choose from a list of several means to satisfy the required goals.

A minimum of 120 credit hours is required for the B.S. in Information Technology, as follows:

Code	Title	Hours
	<b>Information Technology</b>	
	Programming Fundamentals <sup>2</sup>	4

EECS 168	Programming I	4
EECS 268	Programming II	4
UNIX Scripting and Utilities <sup>3</sup>		3
Database Management <sup>3</sup>		4
ITEC 310	Computer Organization and Platform Technologies	3
ITEC 320	System and Network Administration	3
ITEC 330	Web Systems and Technologies	3
ITEC 340	Computer and Information Security	3
ITEC 342	Information Security Management	3
ITEC 410	Software Engineering and Management	3
ITEC 416	System Integration and Architecture	3
ITEC 420	Operating Systems	3
ITEC 422	Computer Networks	3
ITEC 430	Human-Computer Interaction	3
ITEC 450	Social and Professional Issues (Satisfies AE 5.1)	3
Senior IT elective 1		3
Senior IT elective 2		3
ITEC 490	ITEC Capstone I (AE 6.1)	3
ITEC 492	ITEC Capstone II	3
<b>Mathematics</b>		
MATH 101	College Algebra: _____ (GE 1.2)	3
or MATH 103	Trigonometry	
or MATH 104	Precalculus Mathematics	
or MATH 115	Calculus I	
or MATH 125	Calculus I	
or MATH 290	Elementary Linear Algebra	
Discrete Structures I <sup>2</sup>		3
Discrete Structures II <sup>2</sup>		3
MATH 365	Elementary Statistics (or other Statistics Course)	3
or BSAN 202	Statistics	
or BSAN 302	Quantitative Methods and Data Analysis	
or PSYC 210	Statistics in Psychological Research	
<b>Basic Science</b>		
Satisfy GE3N		3
PHSX 114	College Physics I (Satisfies GE 1.1)	4
or PHSX 210	General Physics I for Engineers	
& PHSX 216	and General Physics I Laboratory	
or PHSX 211	General Physics I	
<b>Business and Management</b>		
MGMT 305	Survey of Management and Leadership	3
or MGMT 310	Principles of Management	
or BBA 303	Organizational Behavior	
or BBA 305	Management Science and Operations Management	
or SCM 310	Management Science and Operations Management	
or COMS 342	Problem-Solving in Teams and Groups	
or LDST 201	Introduction to Leadership	
or PUAD 441	Public Service Leadership	
or ABSC 150	Community Leadership	
ITEC 380	Managing IT Projects	3
<b>Written and Oral Communication</b>		
Satisfy GE 2.1 (Typically completed by ENGL 101 and ENGL 102.) <sup>1</sup>		6
ENGL 362	Foundations of Technical Writing	3

Satisfy GE 2.2 (Typically completed by COMS 130, COMS 322, or JOUR 150)<sup>1</sup> 3

### Social Science and Humanities

Satisfy GE3S 3

### Culture and Diversity

Satisfy AE 4.1 3

Satisfy AE 4.2<sup>1</sup> 3

**Electives** 12-14 credit hours of elective coursework is typically needed to meet the 120 credit hour requirement.

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<sup>2</sup> This specific course is not offered at KU, however an equivalent course from KU may be substituted. Consult your advisor.

<sup>3</sup> No equivalent course is offered at KU; it must be transferred from a different college or university. Consult your advisor.

<sup>4</sup> Two required courses in the ITEC curricula are currently under review to satisfy GE 1.1 and AE 5.1. Please check with an advisor for current information on completing these KU Core goals.

## Information Technology 4-Year Graduation Plan

The undergraduate program in Information Technology is offered in its entirety only at the KU Edwards Campus in Overland Park, 12600 Quivira Rd., Overland Park, KS 66213. This program is designed for students who have earned an associate's degree or equivalent hours and wish to complete the upper-level courses necessary for a bachelor's degree.

Students planning to attain the degree will need to transfer key credits from other academic institutions as not all required courses are available through KU.

Students considering this degree option should contact the Information Technology advisor on the KU Edwards Campus, [bsit@ku.edu](mailto:bsit@ku.edu), or 913-897-8623 for advising on the first two years of study.

### Year 1

Semester 1	Hours	Semester 2	Hours
KU Core Goal GE 2.1 (first) <sup>1</sup>	3	KU Core Goal GE 2.1 (second) <sup>1</sup>	3
MATH 101 (GE 1.2)	3	EECS 168	4
Programming Fundamentals <sup>2</sup>	4	UNIX Scripting and Utilities <sup>3</sup>	3
KU Core Goal GE3S Course	3	KU Core Goal GE3N Course	4-5
KU Core Goal GE 2.2 Course <sup>1</sup>	3		
	<b>16</b>		<b>14-15</b>

### Year 2

Semester 1	Hours	Semester 2	Hours
Discrete Structures I <sup>2</sup>	3	EECS 268	4
KU Core Goal GE 3H Course	3	KU Core Goal AE 4.1 or AE 4.2 <sup>1</sup>	3
Database Management <sup>3</sup>	4	Discrete Structures II <sup>2</sup>	3
General Elective	3	PHSX 114 (Meets KU Core goal GE 1.1)	4

General Elective	3	
	<b>16</b>	<b>14</b>

**Total Hours 60-61**

### Third and Fourth Year at the KU Edwards Campus in Overland Park

**Year 3**

Semester 1	Hours	Semester 2	Hours
ITEC 310	3	ITEC 330	3
ITEC 320	3	ITEC 342	3
ITEC 340	3	ITEC 422	3
ITEC 380	3	MGMT 305	3
MATH 365	3	ENGL 362	3
	<b>15</b>		<b>15</b>

**Year 4**

Semester 1	Hours	Semester 2	Hours
ITEC 410	3	ITEC 416	3
ITEC 420	3	ITEC 450	3
ITEC 430	3	Senior IT elective 2	3
Senior IT elective 1	3	ITEC 492	3
ITEC 490	3	KU Core Goal AE 4.1 or AE 4.2	3
	<b>15</b>		<b>15</b>

**Total Hours 60**

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