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 advisor on the Edwards Campus, bosit@ku.edu, 785-864-8623 (from Lawrence) or 913-897-8623 (outside Lawrence), 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.

Transfer Admission Standards

Applications from all transfer students, whether from other institutions or from other KU units, are evaluated on a case-by-case basis. In general, students with grade-point averages under 2.5 are not considered. No upper-level engineering credits from non-ABET-accredited engineering programs are acceptable as transfer credit for engineering programs. Admission is selective, and meeting the minimum requirements does not guarantee admission.

First-year Students

First-year undergraduate students may be admitted, but all admissions, both in-state and out-of-state, are selective. Visit the Office of Admissions (http://admissions.ku.edu/whyku/index.shtml) for admission requirements. Visit the Office of International Student and Scholar Services (http://www.iss.ku.edu) for information about international admissions.

Applications are judged on several factors, including but not limited to high school record, scores on national tests, academic record at college or university level, and trend of grades. High school transcripts and ACT scores are required. Equivalent SAT scores may be substituted.

Minimum Academic Standards for Admission

To be considered for admission to the School of Engineering, beginning first-year students must meet or exceed the following minimum standards:

• 3.0 grade-point average on a 4.0 scale on the Kansas Board of Regents Qualified Admissions (http://admissions.ku.edu/apply/regents_curriculum.shtml) college-preparatory curriculum.
• Top 50 percent of the graduating class of an accredited high school or the equivalent.
• Mathematics ACT score of 22 (or mathematics SAT score of 540). Some engineering degree programs may require a higher mathematics ACT score.

These minimum admission standards apply to all School of Engineering departments. Meeting minimum requirements does not guarantee admission.

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 205</td>
<td>Survey of Accounting (or equivalent)</td>
<td>3-4</td>
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<tr>
<td>or ACCT 200</td>
<td>Fundamentals of Financial Accounting</td>
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<tr>
<td>BIOL 150</td>
<td>Principles of Molecular and Cellular Biology</td>
<td>4-5</td>
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<tr>
<td>or CHEM 130</td>
<td>General Chemistry I</td>
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<tr>
<td>EECS 168</td>
<td>Programming I</td>
<td>4</td>
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<tr>
<td>EECS 268</td>
<td>Programming II</td>
<td>4</td>
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<tr>
<td>UNIX Scripting and Utilities</td>
<td></td>
<td>3</td>
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<tr>
<td>PSYC 104</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>ECON 104</td>
<td>Introductory Economics (or equivalent)</td>
<td>3-4</td>
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<tr>
<td>or ECON 142</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>or ECON 144</td>
<td>Principles of Macroeconomics</td>
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</tbody>
</table>

1 Means of satisfying KU Core Goals are chosen from a variety of options (see kucore.ku.edu). Hours listed are assuming the goals are satisfied with course work.
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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. Some required courses in the IT curricula satisfy a KU Core goal and/or outcome. 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:

Information Technology (64)

Programming Fundamentals 2
EECS 168 Programming I 4
EECS 268 Programming II 4
UNIX Scripting and Utilities 3
Database Management 3
IT 310 Computer Organization and Platform Technologies 3
IT 320 System and Network Administration 3
IT 330 Web Systems and Technologies 3
IT 340 Computer and Information Security 3
IT 342 Information Security Management 3
IT 410 Software Engineering and Management 3
IT 416 System Integration and Architecture 3
IT 420 Operating Systems 3
IT 422 Computer Networks 3
IT 430 Human-Computer Interaction 3
IT 450 Social and Professional Issues 3
Senior IT elective 1
Senior IT elective 2
IT 490 IT Capstone I (AE 6.1) 3
IT 492 IT Capstone II
Mathematics (12)
MATH 101 College Algebra (GE 1.2) 3
Discrete Structures I 2 3

Discrete Structures II 2
MATH 365 Elementary Statistics 3

Basic Science (8-9)
BIOL 150 Principles of Molecular and Cellular Biology (GE 3N) 4-5
or CHEM 130 General Chemistry I
PHSX 114 College Physics I 4

Business and Management (9-10)
ACCT 205 Survey of Accounting (or equivalent) 3-4
or ACCT 200 Fundamentals of Financial Accounting
MGMT 305 Survey of Management and Leadership 3
BBA 410 Project Management 3

Written and Oral Communication (12)
Satisfy GE 2.1 (Typically completed by ENGL 101 and ENGL 102.) 1 6
ENGL 362 Foundations of Technical Writing 3
Satisfy GE 2.2 (Typically completed by COMS 130.) 1 3

Social Science and Humanities (9-10)
ECON 104 Introductory Economics (or equivalent) 3-4
or ECON 142 Principles of Microeconomics
or ECON 144 Principles of Macroeconomics
PSYC 104 General Psychology (GE 3S) 3
Satisfy GE 3H 3

Culture and Diversity (6)
Satisfy AE 4.1 3
Satisfy AE 4.2 1 3

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4. Two required courses in the IT 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.

Upper Level Eligibility

In addition to prerequisites and co-requisites, Information Technology undergraduates are required to earn Upper Level Course Eligibility by attaining grades of C or better in each of the following 8 courses:

- GE 2.1 (both)
- PHSX 114
- MATH 101
- Discrete Structures I and II (EECS 210, MATH 450, or equivalent)
- EECS 168
- EECS 268

If students earn less than a C in any of the above listed courses, they must repeat the course at the next available opportunity and must not take a course for which that course is a prerequisite. It is the students’ responsibility to contact their advisors before beginning the new semester...
regarding any required repetitions and the associated enrollment adjustments (drops and adds).

To enroll in any upper-level IT course (numbered 300 and above), students must have fulfilled the Upper Level Eligibility Requirements detailed above. Students may also petition for a Partial Waiver of Upper Level Eligibility Requirements by completing the appropriate petition; contact the BSIT advisor, Sharla Cruse, at bsit@ku.edu for more information.

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.

First and Second Year Preparation

The first two years of study for this degree program are typically completed at Johnson County Community College. Students considering this degree option should contact the Information Technology advisor on the KU Edwards Campus, bsit@ku.edu, 864-8623 (from Lawrence) or 913-897-8623 (outside Lawrence), for advising on the first two years of study.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Hours</th>
<th>Semester 2</th>
<th>Hours</th>
</tr>
</thead>
</table>
| GE 2.1 (first)
MATH 101 (GE 1.2)
Programming Fundamentals
ACCT 205 or 200 (or equivalent)
GE 2.2 | 3 GE 2.1 (second)
EECS 168
GE 3H
3-4 BIOL 150 or CHEM 130 (GE 3N)
3 | 3 | 4 | 3 |
| 16-17 | 14-15 |

Year 2

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Hours</th>
<th>Semester 2</th>
<th>Hours</th>
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</thead>
</table>
| Discrete Structures
PSYC 104 (GE 3S)
Database Management
ECON 104, 142, or 144 (or equivalent)
UNIX Scripting and Utilities | EECS 268
3 AE 4.1 or AE 4.2
4 Discrete Structures
3-4 PHSX 114
3 | 4 | 3 |
| 16-17 | 14 |

Total Hours: 60-63

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

Year 3

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Hours</th>
<th>Semester 2</th>
<th>Hours</th>
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</table>
| ENGL 362
IT 310
IT 340 | 3 AE 4.1 or AE 4.2
3 IT 320
3 IT 330 | 3 | 3 |

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester 1</th>
<th>Hours</th>
<th>Semester 2</th>
<th>Hours</th>
</tr>
</thead>
</table>
| IT 410
IT 420
IT 422
Senior IT elective 1
IT 490 | 3 IT 416
3 IT 430
3 IT 450
3
3 IT 492 | 3 | 3 |

Total Hours: 60

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