# INFORMATION TECHNOLOGY <br> (BSIT) 

## Program Overview

The B.S. Information Technology (BSIT) program provides students with a combination of knowledge, hands-on experience, and application of theory to support their employment in the field of Information Technology. The curriculum emphasizes quantitative and communication skills as well as providing a basic foundation in understanding the business process and the role of Information Technology in supporting that process. The BSIT is available in person and $100 \%$ online.

Computer science and information technology graduates find jobs in a wide array of occupations including software engineering, application, game, and web programming, network administration and security, and database administration. Because computers are becoming more and more pervasive, computer science and information technology jobs are available in almost every field.

## Career Opportunities

Business/Systems Analysts, Database Administrators, Network Manager, Network \& Security Specialists
Program of Study

| Code | Title | Credit Hours |
| :---: | :---: | :---: |
| Core IMPACTS Area : Institutional Priorities ${ }^{1}$ |  | 4-5 |
| COMM 1110 | Public Speaking | 3 |
| ITDS 1779 | Scholarship Across the Disciplines | 2 |
| LEAD 1705 | Introduction to Servant Leadership | 2 |
| PERS 1506 | Perspectives 1-hour | 1 |
| PERS 1507 | Perspectives 2-hour | 2 |
| Foreign Language Course Options |  |  |
| ARAB, CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PORT, SPAN - 1001, 1002, 2001, 2002 |  |  |
| SWAH 1001 | Elementary Swahili I |  |
| SWAH 1002 | Elementary Swahili II |  |
| Core IMPACTS Area : Mathematics \& Quantitative Skills ${ }^{1}$ |  | 3-7 |
| DATA 1501 | Introduction to Data Science | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | 3 |
| MATH 1101 | Introduction to Mathematical Modeling | 3 |
| MATH 1111 | College Algebra | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| MATH 1125 | Applied Calculus | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| MATH 1132 | Calculus with Analytic Geometry II | 4 |
| MATH 1165 | Computer-Assisted Problem Solving | 3 |
| MATH 1401 | Introduction to Statistics | 3 |
| MATH 1501 | Calculus I | 4 |
| MATH 2125 | Introduction to Discrete Mathematics | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| Core IMPACTS Area : Political Science and U.S. History |  | 6 |
| HIST 2111 | U. S. History to 1865 | 3 |


| or HIST 2112 | U. S. History since 1865 |  |
| :---: | :---: | :---: |
| POLS 1101 | American Government | 3 |
| Core IMPACTS Area : Arts, Humanities, and Ethics |  | 6 |
| Select one Fine Arts course |  | 3 |
| ARTH 1100 | Art Appreciation |  |
| ARTH 2125 | Introduction to the History of Art I- Prehistoric through Gothic |  |
| ARTH 2126 | Introduction to the History of Art II- Renaissance through Modern |  |
| MUSC 1100 | Music Appreciation |  |
| THEA 1100 | Theatre Appreciation |  |
| ITDS 1145 | Comparative Arts ${ }^{2}$ |  |
| Select one Humanities course |  | 3 |
| ENGL 2111 | World Literature I |  |
| ENGL 2112 | World Literature II |  |
| ITDS 1774 | Introduction to Digital Humanities |  |
| PHIL 2010 | Introduction to Philosophy |  |
| ITDS 1145 | Comparative Arts ${ }^{2}$ |  |
| Core IMPACTS Area : Communicating in Writing |  | 6 |
| ENGL 1101 | English Composition I | 3 |
| ENGL 1102 | English Composition II | 3 |
| Core IMPACTS Area : Technology, Mathematics, and Sciences ${ }^{1}$ |  | -11 |
| ANTH 1145 | Human Origins | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System | 3 |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | 3 |
| ASTR 1305 | Descriptive Astronomy Lab | 1 |
| ATSC 1112 | Understanding the Weather | 3 |
| ATSC 1112L | Understanding the Weather Lab | 1 |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab | 3 |
| BIOL 1215K | Introductory Biology | 4 |
| BIOL 1225K | Contemporary Issues in Biology with Lab | 4 |
| CHEM 1151 \& 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | 4 |
| $\begin{aligned} & \text { CHEM } 1152 \\ & \& 1152 \mathrm{~L} \end{aligned}$ | Survey of Chemistry II and Survey of Chemistry II Lab | 4 |
| $\begin{aligned} & \text { CHEM } 1211 \\ & \& 1211 \mathrm{~L} \end{aligned}$ | Principles of Chemistry I and Principles of Chemistry I Lab | 4 |
| $\begin{aligned} & \text { CHEM } 1212 \\ & \& 1212 \text { L } \end{aligned}$ | Principles of Chemistry II and Principles of Chemistry II Lab | 4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | 3 |
| CPSC 1301K | Computer Science I | 4 |
| ENVS 1105 | Environmental Studies | 3 |
| ENVS 1105L | Environmental Studies Laboratory | 1 |
| ENVS 1205K | Sustainability and the Environment | 4 |
| GEOG 2215 | Introduction to the Geographic Information Systems | 3 |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | 3 |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab | 1 |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | 3 |
| GEOL 1322 | Introductory Geo-sciences II: Historical Geology Lab | 1 |
| GEOL 2225 | The Fossil Record | 4 |

相 ..... 3Core IMPACTS Area : Technology, Mathematics, and Sciences ${ }^{1}$7-11
ANTH 1145 Human Origins3ASTR 1305 Descriptive Astronomy Lab1ATSC $1112 \mathrm{~L} \quad$ Understanding the Weather Lab1BIOL 1215K Introductory Biology 4CHEM 1151 Survey of Chemistry I 4\& 1151L and Survey of Chemistry I Lab\& 1152L and Survey of Chemistry II Lab\& 1211L and Principles of Chemistry I LabCHEM 1212 Principles of Chemistry II4
\& 1212L and Principles of Chemistry II Lab
CPSC 1105 Introduction to Computing Principles and 3
CPSC 1301K Computer Science I 4
ENVS 1105 Environmental Studies 3
$\begin{array}{lll}\text { ENVS 1105L } & \text { Environmental Studies Laboratory } & 1 \\ \text { ENVS 1205K } & \text { Sustainability and the Environment } & 4\end{array}$
GEOG 2215 Introduction to the Geographic Information 3
Systems
$\begin{array}{lll}\text { GEOL } 1110 & \text { Natural Disasters: Our Hazardous Environment } & 3 \\ \text { GEOL } 1121 & \text { Introductory Geoscience I: Physical Geology } & 3\end{array}$
GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1
GEOL 1122 Introductory Geo-sciences II: Historical Geology 3
GEOL 2225 The Fossil Record


## Major Requirements

| Code | Title | Credit <br> Hours |
| :--- | :--- | ---: |
| Core Requirements | 45 |  |
| Complete the core requirements for this program | 45 |  |
| Core Total |  |  |
| Field of Study Requirements |  |  |
| Minimum grade of C is required in each CPSC and CYBR course |  |  |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302K | Computer Science II (1 Credit Hour to Area G) | 4 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |

4 CYBR 2160 Intro to Information Security 3
MATH 2125 Introduction to Discrete Mathematics (one hour to 3 Area G)
Field of Study Requirements Total ..... 18
Required for the MajorMinimum grade of C is required in each BUSA, CPSC and MISMcourse
BUSA 2100 Introduction to Information Systems in Business 3
CPSC 3118 Graphical User Interface Development 3
CPSC 3131 Database Systems I 3
CPSC $3165 \quad$ Professionalism in Computing 2CPSC 3415 Information Technology (IT) Practicum (take 3times in 3 different approved subject areas)
or CPSC 4698 Internship
CPSC 4205 IT Senior Capstone 3
CPSC $4000 \quad$ Baccalaureate Survey ..... 0
ENGL 5195U Technical and Scientific Writing ..... 3
MISM 3115 Principles of Information Systems Management ..... 3
MISM 4165 Project Management ..... 3
MISM 4168 Systems Analysis \& Design ..... 3
Math from Area A ..... 1
1 Credit Hour from Area F CPSC 1302K ..... 1
1 Credit Hour from Area F MATH 2125 ..... 1
Required for the Major Total ..... 32
Major ElectivesMinimum grade of C is required in each course.
CPSC/CYBR/ Select 2 credits ..... 2
MISM/CYNX
CPSC/CYBR/ Select 12 credits at the 3000 level or above ..... 12
MISM/FTA/CYNX
Major Electives Total ..... 14
General Electives
Select 14 credits, the following are recommended Courses for ..... 14
Business Minor. ${ }^{1}$

| ACCT 2101 | Principles of Accounting I |
| :--- | :--- |
| BUSA 3135 | International Business |
| ECON 2106 | Principles of Microeconomics |
| MGMT 3115 | Principles of Management |
| MKTG 3115 | Principles of Marketing |

General Electives Total $\quad 14$
Total Credit Hours ..... 123
${ }^{1}$ Note: Students are limited to no more than 30 credits of courses from the DATCoB with the following prefixes: ACCT/BUSA/MISM/ECON/ ENTR/FINC/FTA/MGMT/MKTG.

## Program Map

| Course | Title | Credit <br> Hours |
| :--- | :--- | ---: |
| First Year |  |  |
| Fall |  | 3 |
| ENGL 1101 | English Composition I (minimum grade of | 3 |


| MATH 1113 | Pre-Calculus (minimum grade of C ) | 4 |
| :---: | :---: | :---: |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| KINS 1106 or PHED 1205 | Lifetime Wellness or Concepts of Fitness | 2 |
|  | Credit Hours | 16 |
| Spring |  |  |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302K | Computer Science II (minimum grade of C) | 4 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
|  | Credit Hours | 17 |
| Second Year |  |  |
| Fall |  |  |
| STAT 1401 | Elementary Statistics (Area D course) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| BUSA 2100 | Introduction to Information Systems in Business | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
|  | Credit Hours | 16 |
| Spring |  |  |
| CPSC 3118 | Graphical User Interface Development (minimum grade of C) | 3 |
| CYBR 2160 | Intro to Information Security (minimum grade of C) | 3 |
| MISM 3115 | Principles of Information Systems Management (minimum grade of C) | 3 |
| HIST 2111 <br> or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA E | Social Sciences Elective (World Culture) | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
|  | Credit Hours | 16 |
| Third Year |  |  |
| Fall |  |  |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 2 |
| AREA I | General Elective | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 2 |
| AREA E | Behavioral Science Elective | 3 |
| POLS 1101 | American Government | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
|  | Credit Hours | 14 |


| Spring |  |  |
| :---: | :---: | :---: |
| CPSC 3131 | Database Systems I (minimum grade if C ) | 3 |
| Area H | CPSC/CYBR/MISM Upper-Division Elective (minimum grade of C ) | 3 |
| Area W | PEDS Elective | 1 |
| AREA I | General Elective | 3 |
| ENGL 5195 U | Technical and Scientific Writing | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
|  | Credit Hours | 14 |
| Fourth Year |  |  |
| Fall |  |  |
| MISM 4168 | Systems Analysis \& Design (minimum grade of C) | 3 |
| AREA H | CPSC/CYBR/MISM Upper-Division Elective (minimum grade of C) | 3 |
| Area D | Science Elective with Lab | 4 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 3 |
|  | Credit Hours | 16 |
| Spring |  |  |
| CPSC 4205 | IT Senior Capstone (minimum grade of C) | 3 |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) ${ }^{1}$ | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) ${ }^{1}$ | 3 |
| AREA I | General Elective | 2 |
|  | Credit Hours | 14 |
|  | Total Credit Hours | 123 |
| ${ }^{1}$ Must be a pair of courses: CPSC 2125 Internet Programming-CPSC 4125 Server-Side Web Development or CPSC 3111 COBOL Programming-CPSC 3156 Transaction Processing or CYBR 3106 Cybersecurity Risk Management-CYBR 3119 Fundamentals of Digital Forensics. |  |  |

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Students must earn a C or better in all WBIT, CPSC and MISM courses in Areas F, G, and H.

