INFORMATION TECHNOLOGY (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 A	rea : Institutional Priorities ¹	Hours 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 Languag	e Course Options	
	REN, GERM, GREK, ITAL, JAPN, KREN, LATIN, POI 1002, 2001, 2002	RT,
SWAH 1001	Elementary Swahili I	
SWAH 1002	Elementary Swahili II	
Core IMPACTS A	rea : 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 A	rea : 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 A	rea : Arts, Humanities, and Ethics	6
Select one Fine A	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 Huma	nities 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 A	rea : Communicating in Writing	6
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Core IMPACTS A	rea : Technology, Mathematics, and Sciences ¹	7-11
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
CHEM 1152 & 1152L	Survey of Chemistry II and Survey of Chemistry II Lab	4
CHEM 1211	Principles of Chemistry I	4
&1211L	and Principles of Chemistry I Lab	
CHEM 1212 & 1212L	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

PHYS 1111	Introductory Physics I	4	CYBR 2160	Intro to Information Security	3
& PHYS 1311	and Introductory Physics I Lab		MATH 2125	Introduction to Discrete Mathematics (one hour to	3
PHYS 1112	Introductory Physics II	4		Area G)	
& PHYS 1312	and Introductory Physics II Lab		Field of Study Re		18
PHYS 1125	Physics of Color and Sound	3	Required for the	Major	
PHYS 1325	Physics of Color and Sound Lab	1	-	of C is required in each BUSA, CPSC and MISM	
PHYS 2211	Principles of Physics I	4	course		
& PHYS 2311	and Principles of Physics I Lab		BUSA 2100	Introduction to Information Systems in Business	3
PHYS 2212 & PHYS 2312	Principles of Physics II and Principles of Physics II Lab	4	CPSC 3118	Graphical User Interface Development	3
	and Principles of Physics in Lab	6	CPSC 3131	Database Systems I	3
		6	CPSC 3165	Professionalism in Computing	2
	vioral Science course		CPSC 3415	Information Technology (IT) Practicum (take 3	3
ECON 2105	Principles of Macroeconomics			times in 3 different approved subject areas)	
ECON 2106	Principles of Microeconomics		or CPSC 4698	Internship	
PHIL 2030	Moral Philosophy		CPSC 4205	IT Senior Capstone	3
PSYC 1101	Introduction to General Psychology		CPSC 4000	Baccalaureate Survey	0
SOCI 1101	Introduction to Sociology		ENGL 5195U	Technical and Scientific Writing	3
Select one World	d Cultures course	3	MISM 3115	Principles of Information Systems Management	3
ANTH 1107	Discovering Archaeology		MISM 4165	Project Management	3
ANTH 1105	Cultural Anthropology		MISM 4168	Systems Analysis & Design	3
ANTH 2105	Ancient World Civilizations		Math from Area A	A	1
ANTH 2136	Language and Culture		1 Credit Hour from	m Area F CPSC 1302K	1
ENGL 2136	Language and Culture		1 Credit Hour from	m Area F MATH 2125	1
GEOG 1101	World Regional Geography		Required for the I	Major Total	32
HIST 1111	World History to 1500		Major Electives		
HIST 1112	World History since 1500		Minimum grade o	of C is required in each course.	
ITDS 1155	The Western Intellectual Tradition		CPSC/CYBR/	Select 2 credits	2
ITDS 1156	Understanding Non-Western Cultures		MISM/CYNX		
Core IMPACTS T	otal Hours	42	CPSC/CYBR/	Select 12 credits at the 3000 level or above	12
Health and Well	ness	3	MISM/FTA/CYNX	< compared with the second sec	
KINS 1106	Lifetime Wellness	2	Major Electives T	otal	14
or PHED 1205	5 Concepts of Fitness		General Electives	;	
Select one PEDS	course (https://catalog.columbusstate.edu/course-		1	the following are recommended Courses for	14
descriptions/peo	ds/#peds)		Business Minor:		
1			ACCT 2101	Principles of Accounting I	
	lied in the Institutional Priorities; Mathematics & kills: and Tachnology Mathematics, and Salanges, are		BUSA 3135	International Business	

ECON 2106

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The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

2 ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

Major Requirements

Code	Title	Credit Hours
Core Requireme	ents	
Complete the co	pre requirements for this program	45
Core Total		45
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

MGMT 3115	Principles of Mana	gement	
MKTG 3115	Principles of Marke	ting	
General Electives	Total		14
Total Credit Hour	s		123
the DATCoB wit	are limited to no mo th the following prefi A/MGMT/MKTG.		
Program N	Лар		

Principles of Microeconomics

Title Credit Course Hours **First Year** Fall ENGL 1101 English Composition I (minimum grade of 3 C)

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 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 5195U	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

 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.