BELLEVUE COLLEGE

Information Systems & Technology

Bachelor of Applied Science Degree

STUDENT NAME		**SID #**	
PROGRAM CHAIR		**DATE**	

PROGRAM REQUIREMENTS			**Requested Substitution/Transfer Credits (if applicable)**			**Completed**		
Course	**Course Title**	**CR**	**College/University**	**Course**	**CR**	**Grade**	**Quarter**	**Year**
PREREQUISITE REQUIREMENTS – ALL STUDENTS								
Associate degree in IT or CS-related field or equivalent credits Must have two English courses and at least 20 credits of general education courses from the following list of General Education requirements: ■ English Composition (5 Cr) ■ The Research Paper (5 Cr) or Technical Writing (5 Cr) ■ College level Math (5 Cr) (see below for specific concentration requirements) ■ Social Science course from AAS-DTA transfer list (5 Cr) (Students selecting the Application Development or BI concentration do not need a social science prerequisite) ■ Humanities course from AAS-DTA transfer list (5 Cr) ■ Natural Science (5-6 Cr) (Ten credits in Natural Science from AAS-DTA list required for BAS Information Systems and Technology graduation. Students must choose from two different subject areas. At least five credits must be in physical, biological and/or Earth sciences. Shall include at least one laboratory course)		**90**						
Students who don't have an associate degree in an IT-related field from Bellevue College, should contact the BAS IST program manager for technical prerequisite courses								
CORE PROGRAM REQUIREMENTS – ALL STUDENTS								
BUS 355	Business of Information Technology	**5**						
BUS 370	Intermediate Project Management	**5**						
CMST 340	Applied Organizational Communication	**5**						
ISIT 105	Problem Solving for the IT Professional	**5**						
ISIT 490	Capstone I	**5**						
ISIT 491	Capstone II	**5**						
PHIL& 115	Critical Thinking	**5**						
PHIL 375	Ethical Issues in Information Technology	**5**						
SOC 275	Technology in Everyday Life	**5**						
Natural Science (5 Cr) from AAS-DTA transfer list		**5**						
CORE TOTAL		**50**						
TECHNICAL PREREQUISITES FOR APPLICATION DEVELOPMENT CONCENTRATION								
MATH 130/ **BA 240/** **MATH& 141***	Intro to Statistics or Statistical Analysis or Precalculus I or higher (5 Cr)							
PROG 109	Introduction to Web Development (5 Cr)							
PROG 110	Introduction to Programming (5 Cr)							
PROG 117	Web Development II (5 Cr)							
PROG 120	Object Oriented Programming Concepts (5 Cr)							
PROG 160	Systems Analysis and Design (5 Cr)							
PROG 209	Client-Side Web Programming I (5 Cr)							
PROG 210	Enterprise Software Development II (5 Cr)							
PROG 260	Adv.Topics in Object Oriented Programming (5 Cr)							
PROG 272	Implementing a Mobile Solution (5 Cr)							
Technology or math credits must not be more than 5 years old. *Determined by placement or transfer.								
APPLICATION DEVELOPMENT CONCENTRATION REQUIREMENTS								
BUS& 101	Introduction to Business	**5**						
ISIT 320	Advanced Web Development	**5**						
ISIT 322	Developing Mobile Applications	**5**						
ISIT 324	Principles of Software Testing	**5**						
ISIT 328	Information Security Essentials	**5**						

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ISIT 420	Advanced Data Access Techniques	**5**						
ISIT 422	Application Architecture	**5**						
TECH 223	Using and Supporting Linux	**5**						
CONCENTRATION TOTAL		**40**						
TECHNICAL PREREQUISITES FOR BUSINESS INTELLIGENCE CONCENTRATION								
MATH 130/ BA 240*	Introduction to Statistics/Statistical Analysis (5 Cr)							
Technology or math credits must not be more than 5 years old. *Determined by placement or transfer.								
BUSINESS INTELLIGENCE CONCENTRATION REQUIREMENTS								
BUS& 101	Introduction to Business	**5**						
ISIT 328	Information Security Essentials	**5**						
ISIT 330	Business Intelligence Applications	**5**						
ISIT 331	Applied Database Concepts	**5**						
ISIT 332	Data Warehousing	**5**						
ISIT 333	Applied Programming Concepts	**5**						
ISIT 334	Data Visualization Tools & Techniques	**5**						
Choose 5 credits from the following:		**5**						
ISIT 336 **ISIT 337** **ISIT 338** **ISIT 432** **ISIT 434** **ISIT 436**	Dimensional Modeling (5 Cr) Predictive Analytics (5 Cr) Data Analysis Techniques (5 Cr) Data Repositories for Analytics (5 Cr) Web Analytics (5 Cr) Performance Management (5 Cr)							
CONCENTRATION TOTAL		**40**						
TECHNICAL PREREQUISITES FOR INFORMATION SECURITY AND SYSTEMS ADMINISTRATION CONCENTRATIONS								
IT 128 **NSCOM 201** **NSCOM 202** **NSCOM 221** **NSCOM 223** **NSCOM 227** **TECH 215** **TECH 217** **MATH 138***	Information Security Essentials (5 Cr) CISCO Networking I (5 Cr) CISCO Networking II (5 Cr) Implementing Server Operating Systems (5 Cr) Managing a Network Environment (5 Cr) Implementing Directory Services(5 Cr) PC Analysis & Configuration I (5 Cr) PC Analysis & Configuration II (5 Cr) College Algebra for Business or Social sciences or higher (5 Cr)							
INFORMATION SECURITY CONCENTRATION REQUIREMENTS								
BUSIT 103	SQL Fundamentals	**5**						
ISIT 305	Network Security and Firewalls	**5**						
ISIT 342	VoIP and Wireless	**5**						
ISIT 350	Digital Information Analysis and Recovery	**5**						
ISIT 450	Network Vulnerabilities and Countermeasurements	**5**						
ISIT 452	Network Security Monitoring	**5**						
ISIT 454	System Hardening	**5**						
PROG 160	Systems Analysis & Design	**5**						
CONCENTRATION TOTAL		**40**						
SYSTEM ADMINISTRATION CONCENTRATION REQUIREMENTS								
BUSIT 103	SQL Fundamentals	**5**						
ISIT 305	Network Security and Firewalls	**5**						

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Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
ISIT 342	VoIP and Wireless	5						
ISIT 344	Virtualization and Storage	5						
ISIT 440	Administering a Linux Server	5						
ISIT 442	Managing Messaging Services	5						
ISIT 444	Automation/Configuration & Management	5						
PROG 160	Systems Analysis and Design	5						
CONCENTRATION TOTAL		40						
GRAND TOTAL		180						

The BAS in Information Systems and Technology (IST) will provide students with a broad base of theoretical and technical knowledge, as well as specialized knowledge in one of four concentration areas: application development, business intelligence, systems administration and information security. Individual concentration descriptions can be found online at *www.bellevuecollege.edu/ibit/degrees/bachelor/ist*.

LEARNING OUTCOMES

Program graduates should be able to:

- Apply core competencies learned in the graduate's chosen concentration to function as a successful professional in the field of Information Systems and Technology
- Apply a broad understanding of information systems and technology, creative problem-solving techniques and systems thinking to developing organizational solutions
- Work effectively in multi-disciplinary teams to apply information technology in support of organizational goals
- Identify and analyze user needs and take them into account in the selection, creation, evaluation, implementation and administration of information technology systems
- Work efficiently and effectively applying sound project management techniques and professional communication skills
- Analyze the local and global impact of information technology on individuals, organizations, and society
- Apply best practices and standards, conform to legal and regulatory standards, and apply appropriate ethical considerations including respect for privacy and intellectual property
- Engage in continuing professional development through lifelong learning
- Analyze and apply sustainable business practices
- Demonstrate the breadth and depth of the educational preparation through the completion of a capstone project

PROGRAM ELIGIBILITY

Individuals must have:

- A technical associate's degree in an information technology related field from a regionally accredited institution
- Completed college courses with a grade of 2.0 or higher, with a minimum grade of 2.0 in all courses required for associate's degree in IT
- At least 30 credits of general education requirements completed as part of the associate's degree

DEGREE REQUIREMENTS

Completion of all required courses as shown in the worksheet for each corresponding concentration. In addition to eligibility requirements, students must also achieve the following:

- Complete 90 quarter credits in the general program and concentration requirements, with a grade of "C" or better
- A minimum cumulative GPA of 2.0 for all coursework taken at BC and the courses applied to the degree, including credits transferred from other colleges
- At least 45 quarter credits for the degree must be completed in residence at BC, of which 30 credits must be upper division
- Courses may be subject to minimum grade requirements and prerequisites. Check online at *www.bellevuecollege.edu/classes/all/*

APPLICATION PROCESS

To be considered for the bachelor of applied science in Information Systems and Technology, prospective students must submit the following:

- Completed general Bellevue College admission form
- Non-refundable general admission fee of $34
- Completed bachelor of applied science application form
- Nonrefundable application fee of $75
- Official transcripts from regionally accredited college(s), demonstrating completion of an appropriate associate's degree or equivalent credits, and the prerequisite courses, with a GPA of 2.0 or higher

TUITION

The Bachelor of Applied Science in Information Systems and Technology is a self-support program and therefore does not necessarily follow the upper division tuition schedule published in the college catalog and quarterly schedule. Tuition includes applicable college and course fees, plus current per credit rates published online at *www.bellevuecollege.edu/enrollment/tuition/.*

These courses are not eligible for tuition waivers.

FOR MOST UP-TO-DATE INFORMATION, GO TO:

www.bellevuecollege.edu/programs/degrees/bachelor/ist/

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