

## **Information Systems & Technology**

**Bachelor of Applied Science Degree** 

CTURFUT NAS				cip #				
STUDENT NAM				SID #				
PROGRAM CH	AIR			DATE		i e e e e e e e e e e e e e e e e e e e		
PROGRAM	M REQUIREMENTS			stitution/Transfer f applicable)			Complete	d
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
PREREQUISITE	REQUIREMENTS – ALL STUDENTS							
represent the colother transferabl Must have two E tion courses from English Comp The Research College Level Social Science (Students selectin science prerequisi Humanities Co Natural Scien for BAS Informatic different subject al sciences. Shall incl	Paper (5 Cr) or Technical Writing (5 Cr) Math as per specific concentration requirements below e course from AAS-DTA transfer list (5 Cr) g the Application Development or BI concentration do not need a social te) Durse from AAS-DTA transfer list (5 Cr) CC (5-6 Cr) (Ten credits in Natural Science from AAS-DTA list required in Systems and Technology graduation. Students must choose from two reas. At least five credits must be in physical, biological and/or Earth ude at least one laboratory course)	90						
	on't have an associate degree in an IT-related field f	rom Bell	evue College, should contac	t the BAS IST progran	n manage	r for techn	ical prerequis	ite courses
CORE PROGRA	M REQUIREMENTS – ALL STUDENTS							
BUS 355	Business of Information Technology	5						
CMST 340	Advanced Communication in Business & Technology	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						
Any 200-level So	cial Science course from AAS-DTA transfer list	5						
Natural Science	ourse from AAS-DTA transfer list	5						
CORE TOTAL		45						
TECHNICAL PR	EREQUISITES FOR APPLICATION DEVELOPMENT C	ONCENT	RATION					
MATH 130/ BA 240/ MATH& 141* PROG 109 PROG 110 PROG 120 PROG 123 PROG 160 PROG 209 PROG 210 PROG 260 PROG 272	Intro to Statistics or Statistical Analysis or Precalculus I or higher (5 Cr) Introduction to Web Development (5 Cr) Introduction to Programming (5 Cr) Object Oriented Programming Concepts (5 Cr) Server Side Web Development (5 Cr) Systems Analysis and Design (5 Cr) Client-Side Web Programming I (5 Cr) Enterprise Software Development II (5 Cr) Adv.Topics in Object Oriented Programming (5 Cr) Implementing a Mobile Solution (5 Cr)							
APPLICATION	DEVELOPMENT CONCENTRATION REQUIREMENTS							
BUS& 101	Introduction to Business	5						
BUS 370	Intermediate Project Management	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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	PROGRAM REQUIREMENTS		Requested Substitution/Transfer Credits (if applicable)				Completed	Completed		
Course Co	ourse Title	CR	College/University	Course	CR	Grade	Quarter	Year		
ISIT 420	Advanced Data Access Techniques	5								
ISIT 422	Application Architecture	5								
TECH 223	Using and Supporting Linux	5								
CONCENTRATIO	ON TOTAL	45								
TECHNICAL PR	EREQUISITES FOR BUSINESS INTELLIGENCE CONC	CENTRAT	TION							
MATH 130/BA 24	10* Introduction to Statistics/Statistical Analysis (5 Cr)									
Technology or ma	th credits must not be more than 5 years old. *Determi	ned by pla	acement or transfer.							
	LLIGENCE CONCENTRATION REQUIREMENTS									
	Introduction to Business	5								
BUS 370	Intermediate Project Management	5								
	Information Security Essentials	5								
	Business Intelligence Applications	5								
	Applied Database Concepts	5								
	Data Warehousing	5								
	Applied Programming Concepts	5								
	Data Visualization Tools & Techniques	5								
	from the following:	5								
ISIT 337 ISIT 338 ISIT 432 ISIT 434	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)									
CONCENTRATIO		45								
TECHNICAL PR	EREQUISITES FOR CYBER SECURITY AND SYSTEM	IS ADMII	NISTRATION CONCENTRATI	ON						
IT 128 MATH 138 NSCOM 201 NSCOM 202 NSCOM 221 NSCOM 223 NSCOM 227 TECH 215	Information Security Essentials (5 Cr) College Algebra for Business & Social Science (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)									
Recommended: T	ECH 223 Using & Supporting Linux (5 Cr)									
CYBER SECURIT	Y AND SYSTEMS ADMINISTRATION CONCENTRA	TION RE	QUIREMENTS							
BUSIT 103	SQL Fundamentals	5								
ISIT 305	Network Security and Firewalls	5								
ISIT 344	Virtualization and Storage	5								
ISIT 350	Digital Information Analysis and Recovery	5								
ISIT 440	Administering a Linux Server	5								
ISIT 444	Automation/Configuration & Management	5								
ISIT 450	Network Vulnerabilities and Countermeasurements	5								
ISIT 452	Network Security Monitoring	5								
ISIT 454	System Hardening	5								
1311 434										



### **Information Systems & Technology**

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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, and cyber security & systems administration. 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:

- Associate degree in an information technology or computer science related field from a regionally accredited institution, or 90 equivalent credits that represent the combination of program admission required courses and other transferable college-level credits
- 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 coursesappliedtothedegree,includingcreditstransferredfromothercolleges
- 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
- Nonrefundable admissions and placement fee of \$55
- 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

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

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

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