

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-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: <input type="checkbox"/> ENGL& 101 (5 Cr) <input type="checkbox"/> English Composition II (5 Cr) or Technical Writing (5 Cr) <input type="checkbox"/> College level math (5 Cr) <input type="checkbox"/> Social Science course from AAS-DTA transfer list (5 Cr) <i>(Students selecting the Application Development or BI concentration do not need a social science prerequisite)</i> <input type="checkbox"/> Humanities course from AAS-DTA transfer list (5 Cr) <input type="checkbox"/> Natural Science (5-6 Cr) 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.	90							
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CORE PROGRAM REQUIREMENTS – ALL STUDENTS

BUS 370	Intermediate Project Management	5						
BUS 355	Business of Information Technology	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						
	Any college life science course	5						
CORE TOTAL		50						

TECHNICAL PREREQUISITES FOR APPLICATION DEVELOPMENT CONCENTRATION

DBA 130*	Database Theory (5 Cr)							
PROG 140*	SQL & Relational Database Programming (5 Cr)							
PROG 160*	Systems Analysis and Design (5 Cr)							
PROG 260*	Advanced Topics in Object Oriented Programming (5 Cr)							
MATH 130/ BA 240**	Introduction to Statistics/Statistical Analysis (5 Cr)							

Technology or math credits must not be more than 5 years old. *Additional courses needed as prerequisites. **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						
ISIT 420	Advanced Data Access Techniques	5						
ISIT 422	Application Architecture	5						
IT 101	Introduction to Information Technology	5						
CONCENTRATION TOTAL		40						

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TECHNICAL PREREQUISITES FOR BUSINESS INTELLIGENCE CONCENTRATION

DBA 130*	Database Theory (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 140*	SQL & Relational Database Programming (5 Cr)							
- OR -								
PROG 111	Introduction to C++ Programming (5 Cr)							
PROG 113	Intermediate C++ Programming (5 Cr)							
MATH 130/ BA 240**	Introduction to Statistics/Statistical Analysis (5 Cr)							
SQL Self-Test								

Technology or math credits must not be more than 5 years old. *Additional courses needed as prerequisites. **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 332	Data Warehousing	5						
ISIT 334	Data Visualization	5						
IT 101	Introduction to Information Technology	5						
<i>Choose 10 credits from the following:</i>		10						
ISIT 336	Dimensional Modeling (5 Cr)							
ISIT 337	Predictive Analytics (5 Cr)							
ISIT 338	Data Analysis Techniques (5 Cr)							
ISIT 432	Data Repositories for Analytics (5 Cr)							
ISIT 434	Web Analytics (5 Cr)							
ISIT 436	Performance Management (5 Cr)							
CONCENTRATION TOTAL		40						

TECHNICAL PREREQUISITES FOR SYSTEM ADMINISTRATION AND INFORMATION SECURITY CONCENTRATIONS

BUS& 101	Introduction to Business (5 Cr)							
IT 101	Introduction to Information Technology (5 Cr)							
MATH 138	College Algebra for Business & Social Science (5 Cr)							
NSCOM 201	CISCO Networking I (5 Cr)							
NSCOM 202	CISCO Networking II (5 Cr)							
NSCOM 203	CISCO Networking III (5 Cr)							
NSCOM 204	CISCO Networking IV (5 Cr)							
NSCOM 220	Implementing Client Operating Systems (5 Cr)							
NSCOM 221	Implementing Server Operating Systems (5 Cr)							
NSCOM 223	Managing a Network Environment (5 Cr)							
NSCOM 227	Implementing Directory Services (5 Cr)							
TECH 215	PC Analysis & Configuration I (5 Cr)							
TECH 217	PC Analysis & Configuration II (5 Cr)							

Technology or math credits must not be more than 5 years old. *Additional courses needed as prerequisites. **Determined by placement or transfer.

SYSTEM ADMINISTRATION CONCENTRATION REQUIREMENTS

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)			Completed		
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
BUSIT 103	SQL Fundamentals	5						
ISIT 305	Network Security and Firewalls	5						
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 and Management	5						
PROG 160	Systems Analysis & Design	5						
CONCENTRATION TOTAL		40						
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 Countermeasures	5						
ISIT 452	Network Security Monitoring	5						
ISIT 454	System Hardening	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/

