### PROGRAM REQUIREMENTS

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#### CORE COURSEWORK
- BUSIT 103  SQL Fundamentals  5
- CMST 250  Organizational Communication  5
- DBA 130  Database Theory  5
- ENGL& 101  English Composition I  5
- IT 103  Networking Basics  5
- PROG 110  Introduction to Programming  5
- PROG 117  Web Development II  5
- PROG 140  SQL & Relational Database Programming  5

#### COMMUNICATION
Choose 5 credits from the following:  5
- ENGL 201
- ENGL& 235  The Research Paper (5 Cr)

#### QUANTITATIVE
Choose 5 credits from the following:  5
- BA 240  Statistical Analysis (5 Cr)
- MATH 130  Introduction to Statistics (5 Cr)

#### NATURAL SCIENCE, SOCIAL SCIENCE, HUMANITIES
Choose one from the following:  5-6
- PHYS 109  Science for Information Technology (6 Cr)
- Any lab science (5-6 Cr)

Total 55-56

### CHOOSE ONE TRACK FROM THE FOLLOWING:

#### BUSINESS ANALYST TRACK
- BUS& 101  Introduction to Business  5
- BUSIT 150  Introduction to Business Analysis  5
- BUSIT 250  Applying Business Analysis Techniques  5
- PROG 109  Introduction to Web Development  5
- PROG 160  Systems Analysis and Design  5

Any program approved electives (10 Cr) 10

Total 35

#### SOFTWARE DEVELOPMENT TRACK
- PROG 109  Introduction to Web Development  5
- PROG 120  Object Oriented Programming Concepts  5
- PROG 160  Systems Analysis & Design  5
- PROG 210  Enterprise Software Development II  5
- PROG 260  Advanced Topics in Object Oriented Programming (5 Cr)  5

Any program approved electives (10 Cr) 10

Total 35

**GRAND TOTAL**  90-91
The Information Systems degree includes concentrations for students interested in software development or business analyst. Students also take general education courses. The degree prepares graduates for entry-level developer/analyst positions and for continuation to a Baccalaureate institution. Certificates of Accomplishment and Achievement in Introductory .NET Programming, Programming for Web Development, Database Report Developer, Business Intelligence Analyst, Intermediate Applications Developer, Introductory C++ Programming, and Database Analyst may be applied toward the degree.

LEARNING OUTCOMES

Degree recipients should possess the skills & abilities described below:
- Communicate effectively in the three areas of listening, writing and speaking
- Apply critical thinking and logical research to technological problems in their area of concentration
- Create stored procedures, triggers and cursors using an appropriate database server programming language
- Use common relational database terminology and normalization to design a relational database

BUSINESS ANALYST TRACK

- Identify appropriate business analysis tasks for a variety of organizational scenarios using appropriate terminology
- Document the results of various business analysis tasks using generally acceptable approaches
- Communicate within a small group using appropriate business analysis terminology and techniques
- Detail business analysis techniques to real-world scenarios/tasks by explaining the advantages and disadvantages of each

SOFTWARE DEVELOPMENT TRACK

- Using .NET compliant programming languages, write, compile, debug and execute well engineered and maintainable programs that effectively meet the requirements for Web and/or Windows applications
- Write code for efficiently designed N-tiered business applications
- Explain and apply the necessary processes, tools and skills used in the systems analysis and system design phases of a project

CULTURAL DIVERSITY REQUIREMENT (CDR)

Below is a complete listing of all the courses that meet the college’s Cultural Diversity requirements for the Associate Transfer Degrees. Classes will be applied toward either the Humanities, Social Science, Natural Sciences or electives.

Transferable Courses:
- Art 103
- Cultural and Ethnic Studies 100, 101, 106, 109, 120, 121, 130, 140, 152, 180, 200, 201, 203, 205, 210, 241, 257;
- Communication Studies 134, 250, 280
- French 131, 132, 133, 231, 232, 233
- Geography 123, 200, 277
- History 185, 246
- International Studies 123
- Music 117
- Philosophy 102, 145, 265
- Psychology 250
- Sociology 101, 120, 121, 122, 201, 205, 210, 215, 222, 230, 248, 249, 253, 254, 257, 260, 262, 264, 267, 268, 275
- Create and utilize relational databases, including modeling data, developing queries, customizing forms and reports, using code, creating charts and working with graphics

FOR MOST UP-TO-DATE INFORMATION, GO TO:
www.bellevuecollege.edu/programs/degrees/proftech/

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