



WESTERN
ILLINOIS
UNIVERSITY

WESTERN ILLINOIS UNIVERSITY
BACHELOR OF SCIENCE DEGREE IN
COMPUTER SCIENCE

2008-2009

- **GENERAL EDUCATION - 43 hours minimum**

Basic Skills - 9 hours minimum including English 180, 280 (must have C grade); Communications 241 - 3 hours

Natural Science/Math - 10 hours minimum

Science Lab - 4 semester hours

Math - A Math placement evaluation or test is given prior to your first registration to determine the level in which you begin your math sequence. You must earn a C grade in each Math class to progress to the next level.

Social Sciences - 9 hours, 2 departments

Humanities - 9 hours, 2 departments

Human Well Being - 3 hours, 2 departments

Multicultural - 3 hours

- **COMPUTER SCIENCE MAJOR CURRICULUM - 45 hours minimum**

Core

CS 211 - 2 - Principles of Computer Science I (must be in Math 100 or higher and register for CS 212 also)

CS 212 - 1 - Basics of JAVA

CS 214 - 3 - Principles of Computer Science II

CS 310 - 3 - Computer Organization I

CS 350 - 3 - Data Structures I

CS 351 - 3 - Data Structures II

CS 355 - 3 - Automata and Computability

CS 491 - 3 - Software Engineering I

CS 492 - 3 - Software Engineering II

***A 'C' or better must be made in CS 211, 212, 214, and 350 before advancing to the next course in the core*

Traditional

CS 371- 3 - UNIX

or

Business

CS 220 - 3 - COBOL

and 230 - 3 - External Files

Depth Courses - 12 hours - Choose from Computer Organization II, Operating Systems, Computer Communication and Networks, Artificial Intelligence Methods, Computer Graphics, and Database Systems.

CS Electives - Choose from Advanced Microcomputer Systems with Spreadsheet Applications, Fundamentals of Computer Processors, Introduction to CICS, Computer Simulation, Ethics in IT, Survey of Programming Languages, Computer Privacy and Security, Theory and Techniques of Compilers, Graphical User Interface Programming, E-Commerce Systems Development, Introduction to Digital Circuits, Computer Science Internship and seminars on current topics and issues.

Traditional Emphasis - 6 hours

Business Emphasis - 3 hours

- **COGNATE REQUIREMENTS - approximately 9 to 12 hours**

Traditional Emphasis

MATH 133 - 4 - Calculus with Analytic Geometry I

MATH 255 - 3 - Discrete Structures

STAT 276 - 3 - Probability & Statistics

MATH 311 - 3 - Linear Algebra

Business Emphasis

MATH 137 - 3 - Applied Calculus I

MATH 255 -3- Discrete Structures

STAT 276 - 3 - Probability & Statistics

Minor – 16-24 hours

**For additional information, please contact academic advisor Jean Bird, 1 University Circle, Macomb, IL 61455
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