



WESTERN  
ILLINOIS  
UNIVERSITY

# WESTERN ILLINOIS UNIVERSITY

## BACHELOR OF SCIENCE DEGREE IN

# COMPUTER SCIENCE

2007-2008

- **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**

} **Minimum of 6 hours of Writing Emphasis Courses**

- **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 14 hours**

**Traditional Emphasis**

*MATH 133 - 4 - Calculus with Analytic Geometry I*

*MATH 134 - 4 - Calculus with Analytic Geometry II*

*STAT 276 - 3 - Probability & Statistics*

*MATH 311 - 3 - Linear Algebra*

**Business Emphasis**

*MATH 137 - 3 - Applied Calculus I*

*MATH 138 - 3 - Applied Calculus II*

*Decision Science - DS 203- 3 - Business Statistics*

or

*STAT 276 - 3 - Probability & Statistics*

**Minor – 16-24 hours**

**For additional information, please contact Jean Oppel, 1 University Circle, Macomb, IL 61455  
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