



UNIVERSITY OF WISCONSIN

**Richland**

*A Campus of the University of Wisconsin Colleges*

YOUR  
MAJOR  
IN

# Computer Science

## Overview

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UW-Richland's computer science curriculum provides you with basic skills and knowledge to help you to enroll successfully in a bachelor's degree program, to succeed in a variety of computer science professions, and to compete successfully in the evolving global environment. This curriculum includes basic skills courses leading to a fundamental understanding of the general factors that influence human and machine information and communication systems. It also helps you understand the value of scientific study of the structures of verbal, visual and quantitative information, applying computer science principles to helping people and for solving everyday problems. It prepares you for para-professional or professional training. The course of study provides you with fundamental concepts, principles, and skills leading to a clear introductory understanding of the foundation of contemporary computer science. Computer science course work, when combined with UW-Richland's strong, liberal arts curriculum, will provide you with the essentials needed during the first two years of a computer science education for the 21st century.

## Career Opportunities

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The computer industry is a growth industry that shows no signs of slowing down in the next decade. Computer personnel are involved in virtually every aspect of American business and industry. New jobs are created daily as advances and expansions into different markets create new jobs. Programmers write the codes that make up a computer program, test their programs, de-bug them, and sometimes write the accompanying documentation. Programmers must be able to think logically and concentrate on detail. For commercial applications, programmers should have a working knowledge of languages such as Visual Basic, C++, assembly, and Java. Systems analysts solve the problems of adapting computer hardware and software to end-users' needs primarily with database and network systems. Electronic data processing auditors evaluate computer functions, systems and operational procedures of entire companies and report back to top management with recommendations for improvements. Technical support specialists are problem solvers, answering questions and working out any difficulties the customer may have with hardware or software. Sales and marketing representatives do not merely sell computer products; they are responsible to their customers for making sure they are selling them the equipment they need. Many technical experts move into sales because of the higher earning potential from commissions. Their technical backgrounds are an advantage to their sales presentations.

## Websites you may want to visit:

Association of Information Technology Professionals  
DAMA International Data Management Association  
Association of Support Professionals

[www.aitp.org](http://www.aitp.org)  
[www.dama.org](http://www.dama.org)  
[www.asponline.com](http://www.asponline.com)

## Suggested course of study for a computer science major:

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University of Wisconsin-Richland can offer you the freshman/sophomore curriculum needed to begin a computer science major. The four-semester program outlined below is to be used as a guide. Additional information and transfer planning sheets for specific majors and universities are available in the Student Services Office. UW-Richland offers the freshman/sophomore curriculum appropriate to a computer science major and includes required general education. Consult your *academic advisor* for individualized program planning assistance.

### First Year

#### Semester 1

English composition*	3 credits
Math 221*, Calculus	5 credits
Biological Science	5 credits
CPS 240, Adv. Visual Basic	3 credits

#### Semester II

English*	3 credits
Math 222*	5 credits
CPS 245 Java	4 credits
Physical Science	4-5 credits

### Second Year

#### Semester III

CPS 255, Objects & Data Abstraction	3 credits
Social Science (ES)	3 credits
Fine Arts/Humanities	3 credits
Social Science	3 credits
Math 223	5 credits

#### Semester IV

CPS 265, Computer Science III	3 credits
Humanities	3 credits
Humanities/Fine Arts	3 credits
Social Science	3 credits
Elective	3 credits

Placement in English and mathematics will be determined on the basis of placement tests; see \*. Successful completion of the schedule outlined above, with the addition of an interdisciplinary course, will satisfy the requirements for an Associate of Arts & Science degree.

Explore career possibilities by visiting The Resource Center, located in the Student Services area of Melvill Hall. There you'll find career information, self-assessment videos and career assessment testing. Interactive computer programs are available to help you identify your work-related interests, skills and values. Knowing these characteristics can help you discover compatible occupations. The programs also provide information about educational requirements, potential salary, and employment outlooks for occupations in Wisconsin and nationwide.

For more information on majors in the UW System, go to: [uwhelp.wisconsin.edu/majormaniam](http://uwhelp.wisconsin.edu/majormaniam) .

For more information or assistance, contact:

Office of Student Services  
University of Wisconsin - Richland  
1200 Highway 14 West  
Richland Center, WI 53581-1399

E-mail: [rlinfo@uwc.edu](mailto:rlinfo@uwc.edu)  
Web site: [richland.uwc.edu](http://richland.uwc.edu)  
Phone: (608) 647-6186, Option #3