

# COMPUTER INFORMATION SYSTEMS



***“Never before in history has innovation offered promise of so much to so many in so short a time ”***

Bill Gates  
Chairman, Microsoft Corp.

***“I do not fear computers. I fear the lack of them”***

Isaac Asimov

***“Computers themselves, and software yet to be developed, will revolutionize the way we learn.”***

Steve Jobs

***“Technology is the most subtle and the most effective engineer of enduring social change.”***

Robert MacIver  
Social and Political Scientist

## CAREER OVERVIEW

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Today, computers are used in almost every aspect of our lives and new applications are introduced every day. The use of computer technologies is commonplace in all types of organizations, in schools, government, private and business organizations.

There are career opportunities in programming and software development, information systems operation and management, Web development, systems analyst, database development, gaming, training and support, and computer industry specialties.

## EMPLOYMENT TRENDS

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BLS employment projections for 2012-22 ([www.bls.gov](http://www.bls.gov)) anticipate growth in the following computer related areas:

Occupational Title	% Change 2012-22
Software Developers	22
Computer Programmers	8
Web Developers	20
Computer System Analysts	25
Database Administrators	15
Computer Support Specialist	17

## SKILLS FOR SUCCESS

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*Successful people in this field are:*

**DETAIL ORIENTED**

**ADAPTABLE TO CHANGE**

**TEAM PLAYERS**

**PROBLEM SOLVERS**

**CREATIVE**

**Business  
& Technology**

COLLEGE OF DUPAGE

[http://www.cod.edu/academics/divisions/business\\_technology/](http://www.cod.edu/academics/divisions/business_technology/)

Tel: 630 942-2592

The Computer Information Systems program at COD offers degrees and certificates that allow graduates to participate in a wide range of technology fields.

**AS Degree**

**Major Code: 8214**

The Associate in Science degree option is for students who wish to transfer to certain 4 year institutions after completing the degree at COD. Please consult with an advisor about your class selections and transfer options.

**Software Development AAS Degree**

**Major Code: 3222**

The Software Development degree option is designed for students who wish to complete their education in programming and technology at COD. This program provides software development emphases in the following programming environments: C++, Java, Visual Basic, and NET.

<b>Key First Semester Courses:</b>	<b>Credits</b>
Computer Info System 1150: Introduction to Computer Information Systems	3
Computer Info System 1160: Windows Command Line	2
Computer Info System 1400: Programming Logic and Technique	4
English 1105: Writing for the Workplace	3
Mathematics 1115 or 1428 or 1431	3

**Application and Tech. Support Specialist AAS Degree**

**Major Code: 3216**

The Application and Technical Support Specialist degree option is designed for student who wish to prepare for careers involving technology such as support and training.

<b>Key First Semester Courses:</b>	<b>Credits</b>
Computer Info System 1150: Intro to Computer Information Systems	3
Computer Info System 1160: Windows Command Line	2
Computer and Internetworking Technologies 1100: PC Maint. And Upgrading	2
Business 1111: Customer Service	3
English 1105: Writing for the Workplace	3
Mathematics 1115: Technical Mathematics I	3

**Game AAS Degrees**

The Game Programming and Development degree, the Game Design and Development degree, and Game Animation and Design degree options prepare the student to design and create computer games.

<b>Key First Semester Courses for all Game Degrees:</b>	<b>Credits</b>
Computer Info System 1199: Introduction to the Game Industry	3
Computer Info System 1200: Game Design	3
English 1101: English Composition I	3
<b>Additional courses for the Game Programming and Development AAS Degree</b>	<b>Major Code: 3226</b>
Computer Info System 1211: 2D Game Development	3
Computer Info System 1400: Programming Logic and Technique	4
<b>Additional courses for the Game Design and Development AAS Degree</b>	<b>Major Code: 3224</b>
Anthropology 1100: Introduction to Anthropology	3
Speech 1100: Fundamentals of Speech Communication	3
<b>Additional courses for the Game Animation and Design AAS Degree</b>	<b>Major Code: 3223</b>
Motion Picture and Television 1311: Introduction to Animation	3
Motion Picture and Television 1313: History of Animation	3
Art 1101: Drawing I	3

**Certificates**

Business Productivity	Visual BASIC Language Proficiency	Game Design and Development
Desktop Database Proficiency	LINUX Proficiency	Game Programming and
Spreadsheet Proficiency	UNIX Proficiency	Development
C++ Language Proficiency	Web Programmer	IPhone/IPad Developer
Java Language Proficiency	Enterprise Database Proficiency	Web Technician

Many courses are offered only once a year. If you are considering this program, consult with a faculty adviser in CIS.

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For more program and faculty contact information, visit the CIS website: <http://cod.edu/programs/cis/index.aspx>