

COMPUTER INFORMATION SYSTEMS



BCCC
Baltimore City Community College

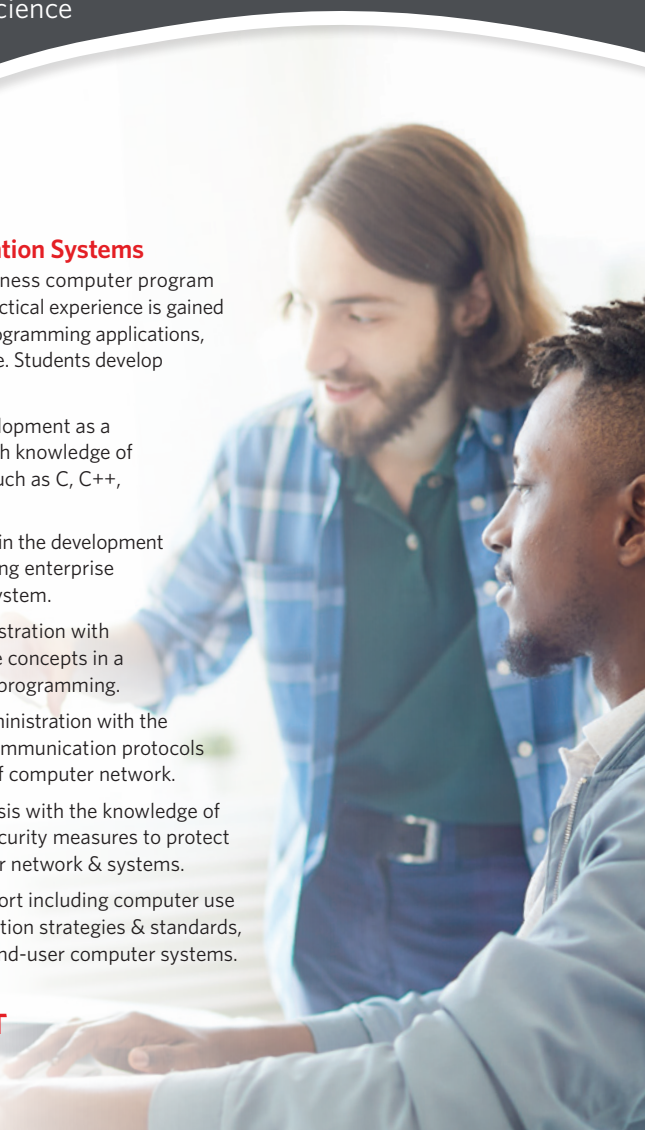
Associate of Applied Science

The Computer Information Systems

program emphasizes business computer program design and development. Practical experience is gained in networking, databases, programming applications, and securing IT infrastructure. Students develop hands-on experience in:

- Application design & development as a computer programmer with knowledge of programming languages such as C, C++, Java, & Visual Basic.
- Systems analysis & design in the development of an entire system including enterprise resource planning (ERP) system.
- Database design & administration with the knowledge of database concepts in a multiuser platform & SQL programming.
- Networking & systems administration with the knowledge of computer communication protocols & day-to-day operations of computer network.
- Information security analysis with the knowledge of planning & carrying out security measures to protect an organization's computer network & systems.
- Help desk/technical support including computer use & support, product evaluation strategies & standards, as well as installation of end-user computer systems.

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COMPUTER INFORMATION SYSTEMS

Associate of Applied Science

60 credit hours

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BCCC'S ADVANTAGE
CAREER OPTIONS

- Computer Programmer/
Application Developer
- Database Administrator
- Data Security Support
- Help Desk/
Computer Support
- Network Analyst/
Systems Administrator
- Systems Analyst
- Systems Technician

- Small class size
- Virtual & remote learning
- Majority of graduates
transfer to a bachelor's
degree program or find
job placements

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SUGGESTED SEQUENCE OF COURSES

	Credits	Course No.
CIS Approved Electives		
Introduction to Help Desk	3	BCAP 270
Programming in C	3	CSC 108
Programming with Visual Basic	3	CISS 118
Oracle Database Administration	3	ITDB 246
Oracle Database Developer	3	MAT 86
Networking with TCP/IP	3	ITNT 235
Security Fundamentals & Principles	3	ITSA 125
1st Semester		
Prep. for Academic Achievement	1	PRE 100
Introduction to Operating Systems	3	BCAP 104
Introduction to UNIX:		
The Operating Systems	3	CISS 105
Principles of Computer Info. Systems	3	CISS 109
Structured Design	3	CISS 116
English Writing	3	ENG 101
2nd Semester		
Database Management Systems	3	BCAP 136
Java Programming for Bus. Apps.	3	CISS 231
Finite Mathematics	3	MAT 125
Fundamentals of Speech Comm.	3	SP 101
Health and Life Fitness	1	HLF ELEC
3rd Semester		
Systems Analysis and Design	3	CISS 201
Object-Oriented Programming for Business Application in C++	3	CISS 228
Comprehensive Spreadsheet	3	BCAP 126
Modern Elementary Statistics	3	MAT 107
CIS Approved Elective	3	CIS ELEC
4th Semester		
The American Economy I: Macroeconomic Theory	3	ECO 201
Principles of Financial Accounting	3	ACCT 221
Gen. Ed. Req.: Social & Behavioral Sciences	3	SBS ELEC
Gen. Ed. Req.: Biological & Physical Sciences	3	BPS ELEC
CIS Approved Elective	3	CIS ELEC