

What to do with a major/certificate/degree in... Computer and Information Systems

(See also: *Desktop Publishing, Personal Computer Applications, Web Applications*)

JCCC Contact Information

Computer Information Systems Dept.
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Degrees/Certificates Available at JCCC

Associate of Applied Science Degree, Information Systems
Database Certificate
Microcomputer Programmer Analyst Certificate
Web Developer Advanced Certificate
Transfer Program

JCCC Program Web site

<http://www.jccc.edu/home/depts/1207>

Overview of JCCC's Program

Integrated program of study designed to prepare professionals with skills that are equally applicable to different hardware and software platforms.

Job Titles*

Account Representative-Technology Sales	Computer Installation & Test Specialist
Analyst	Computer Operations Manager
Applications Programmer	Computer Operator
Applied Science Technologist	Computer Programmer
Artificial Intelligence	Computer Scientist
Auditor	Computer Security Coordinator
Automated Systems Designer	Computer Systems Engineer
Biomedical Engineer	Computer Systems Hardware Analyst
Biometrician	Computer Systems Manager
Budget Officer	Consultant
Business Systems Analyst	Content Engineer (Web)
Chief Information Officer	Content Specialist
Client/Server Programmer	Contract Administrator
Compensation/Benefits Administrator	Corporate Security Specialist
Computer-Aided Design Technician	Cost Estimator
Computer Analyst	Cryptographer/Cryptologist
Computer Applications Engineer	Customer Engineer
Computer Engineer	Data Architect
Computer Facilities Manager	Database Administrator
Computer Graphics Technician	Database Design Analyst

Data Communication Analyst	Production Support Specialist
Data Control Administrator	Product Manager
Data Processing Manager	Professor
Data Recovery Planner	Programmer/Analyst
Data Security Manager	Project Lead/Manager
Data Warehouse Specialist	Psychometrician
Demographer	Public Health Statistician
Director of Institutional Research	Quality Assurance Analyst
Document Specialist	Quality Control Engineer
Editor, Technical Journal	Research Analyst
EDP Auditor	Research & Development Laboratory
Electrical Engineer	Programmer
Engineer	Risk Analyst
Engineering Lab Technician	Risk & Insurance Specialist
Genetic Engineer	Robotics Programmer
Government Official	Sales Representative
Graphical User Interface (GUI) Programmer	Satellite Communications Specialist
Graphic Artist, Computer Aided Design	Senior Applications Planner
Help Desk Technician	Software Development Specialist
Information Scientist	Software Engineer
Information Systems Auditor	Software Support Specialist
Inside Technical Sales	Special Effects (FX) Specialist
Intellectual Properties Lawyer	Specification Writer
Interface Design Director (Web)	Specialist Programmer
Internet Specialist/Web Designer	Statistician
Intranet Applications Specialist/Manager	Strategic Analyst
Inventory Control Specialist	Systems Administrator
Investment Banker	Systems Analyst
ISO 2000 Specialist	System Software Developer
Junior Programmer	Systems Engineer
Mail Server Administrator	Systems Programmer
Management Information Specialist	Teacher
Market Research Analyst	Technical Site Manager
Marketing Consultant	Technical Support Representative/Specialist
Mathematician	Technical Writer
Microcomputer Support Specialist	Telecommunications Specialist
MIS Manager	Telecommunications Manager
Multi Media Specialist	Training Instructor/Specialist
Network Programmer	Underwriter
Numerical Analyst	UNIX Administrator
Operating Systems Programmer	Web Designer
Operations Research Analyst	Webmaster
Operations Manager	Web Security Administrator

**Careers mentioned above are a sample of job titles. Some careers may require additional education or training.*

Personal Characteristics to be Successful

Accurate
Analytical
Critical-thinking
Detail-oriented
Determined
Efficient
Energetic
Independent

Intelligent
Logical
Organized
Persistent
Problem-solving
Self-confident
Thorough

Workplace Skills

Analyze statistics
Automate processing
Attend to detail
Clarify problems
Classify/systemize
Conceptualize complex systems
Conduct feasibility studies
Convert data from project specifications
Coordinate tasks
Create or modify computer programs
Describe technical information to non-technical personnel
Design programs/systems
Develop and coordinate
Develop hardware products
Develop work goals
Diagnose
Evaluate/review software/systems
Explain processes
Identify areas with upgrade needs
Identify problems
Implement physical databases
Install/modify new systems
Integrate different approaches
Interview
Investigate and resolve software and hardware problems
Knowledge of marketing concepts
Knowledge of programming language and operating systems
Knowledge of special projects

Manage databases
Management & administration skills
Mathematical skills
Monitor data communication networks
Perceive/define cause & effect relationship
Perform scientific or laboratory work
Perform statistical analyses
Plan, develop, test and document computer programs
Plan, coordinate and implement security measures
Possess written and oral communication skills
Provide technical support to workers
Recognize elements, relationships, structures and organizing principles
Research
Review large amounts of material and extra essence
Set priorities
Solve problems/troubleshoot
State problems or procedures
Survey
Teach
Test solutions/software
Trace problems to the source
Train system users
Troubleshoot
Use algorithms to reason
Work on aerospace & scientific applications
Work independently and in teams

Professional Organizations

Association for Women in Computing
www.awc-hq.org

Independent Computer Consultants Association
www.icca.org

Advanced Degrees in the Major?

Yes

Sources:

Central Methodist University, Career Services Web site (visited August 2008)
[http://www.centralmethodist.edu/cmcareer/resources.html#Major_Resources:](http://www.centralmethodist.edu/cmcareer/resources.html#Major_Resources)

University of North Carolina-Wilmington, Career Services (What can I do with a major in...) Web site (visited August 2008): <http://www.uncwil.edu/stuaff/career/Majors/index.htm>