# COMPUTER SCIENCE

## What I can do with this degree...

## ...in Computer Operations

### POSSIBLE OCCUPATIONS

- Computer Center Tech
- Computer Engineer
- Computer Operator
- Data Entry Operator
- Database Manager
- Operations Manager

### WORK SETTINGS

- College & Universities
- Computer Corporations
- Data Processing Firms
- Financial Firms
- Industry Private Sector
- Manufacturing Firms
- Variety of organizations

### PREPARATION STRATEGIES

- Work in university computer labs.
- Develop communication skills and interest in helping others.
- Gain knowledge in a variety of computer areas including minor programming, software, hardware, etc.
- Plan to stay abreast of latest technology and software.

## ...in Information Management

### POSSIBLE OCCUPATIONS

- Applications Development
- Data Communications Mgr
- Database Mgr
- Director, Data Processing
- MIS Director
- Network Administrator

### WORK SETTINGS

- Network access points
- Backbone operators
- Online service providers
- Internet service providers

### PREPARATION STRATEGIES

- Get first-hand experience through internships.
- Develop attention to detail and a flair for creativity.
- Learn to work well with a team and to meet deadlines.
- Supplement computer degree with courses in business, science or technology

## ...in Manufacturing & Design Engineering

### POSSIBLE OCCUPATIONS

- Coder
- Computer Aided Designer
- Computer Applications Engineers
- Computer Graphics Artists
- Consultant
- Design Engineer
- Electrical Engineer
- Ergonomics (Human Factors)
- Field Service Representative
- Hardware Engineer
- Industrial Engineer
- Manufacturing Engineer
- Manufacturing Systems Specialist
- Mechanical Engineer
- Network Analyst
- Product Assurance Engineer
- Software Engineer
- Software/Hardware Designer
- Systems Analyst, Engineer
- Webmaster

### WORK SETTINGS

- Any large organization including: Banks, retail chains, manufacturers, universities, and government agencies
- Computer vendors
- Software & Computer companies
- Management Consulting Firms
- Contract & temporary employers

### PREPARATION STRATEGIES

- Develop interpersonal skills; must communicate effectively with technical and non-technical colleagues.
- Gain programming experience. Many analysts begin their careers as programmers.
- Become an effective problem solver.
- Take business courses. Earn an M.B.A. degree for advanced positions.
- Plan to continually educate self on new computer languages and technology.
- Develop attention to detail and a flair for creativity.
- Seek the Certified Computing Professional designation by passing a series of exams and experience requirements.

## ...in Programming

### POSSIBLE OCCUPATIONS

- Analyst
- Applications
- Business
- Capacity Planning
- Communications
- Computer Scientist
- Contract
- Data Base
- Data Base Engineering
- Operations
- Operations Research Analyst
- Performance
- Programmer
- Programmer, Developer
- Scientific Research
- Software Designer
- Software Engineer
- Support
- Systems
- Systems Analysts
- Systems Designer
- Systems Support

### WORK SETTINGS

- Banks,
- Insurance companies
- Consulting
- Firms
- Financial agencies
- Manufacturers
- Government agencies
- Computer companies
- Research institutions
- Universities

### PREPARATION STRATEGIES

- Develop interpersonal skills; must communicate effectively with technical and non-technical colleagues.
- Gain programming experience.
- Many analysts begin their careers as programmers.
- Become an effective problem solver.
- Take business courses. Earn an M.B.A. degree for advanced positions.
- Plan to continually educate self on new computer languages and technology.

## ...in Sales & Marketing

### POSSIBLE OCCUPATIONS

- Account Executive
- Business Owner
- Comp. Sales/Mktg Rep
- Customer Support Rep
- Equipment Dealer
- Marketing Analyst, Researcher
- Operations Manager
- Product Manager
- Sales Associate
- Sales Marketing Manager
- Sales/Marketing Engineer
- Systems Engineer

### WORK SETTINGS

- Any large organization
- Nonprofit organizations
- Software/hardware manufacturers
- Retail stores, vendors

### PREPARATION STRATEGIES

- Obtain a degree in counseling for therapy positions
- Seek volunteer and internship positions to gain experience.
- Hone skills in public speaking, writing, programming,

## ...in Service Maintenance & Installation

### POSSIBLE OCCUPATIONS

- Data Processing Equipment
- Field Engineering
- Service Manager
- Service Technician
- Technical Specialist

### WORK SETTINGS

- Any corporation
- Government agencies
- Computer companies
- Manufacturers
- Research institutions
- Universities

### PREPARATION STRATEGIES

- Develop excellent communication skills; must be interested in helping customer solve problems.
- Work in university computer labs.
- Take technical writing courses to develop skills.
- Seek related work experience through part-time jobs.

# RESOURCES

## PROFESSIONAL ORGANIZATIONS

Association for Computer Operations Management
742 E. Chapman Ave.
Orange,, CA 92866
http://www.arcat.com/arcators1cos36/arc36885.cfm

Association of Information Technology Professionals
315 S. Northwest Hwy
Park Ridge,, IL 60068
http://www.aitp.org

Information Systems Consultants Association
P.O. Box 467190
Atlanta,, GA 30346

National Association of Computer Consultant
Businesses
1250 Connecticut Ave., NW 8th Floor
Washington,, DC 20036

The Information Technology Training Association
4210 Spicewood Springs Road, Suite 103
Austin,, TX 78759-8653
http://www.itta.org/

Women In Technology International
4641Burnet Ave
Sherman Oaks,, CA 91403
http://www.witi.com/index-c.shmtl

## OTHER SOURCES OF INFORMATION IN THE CAREER LIBRARY

- Occupational Outlook Handbook
- DISCOVER
- O*NET
- Best Jobs for the 21st Century
- College Majors & Careers
- Job Opportunities in Engineering & Computer Science 1998
- Job Opportunities in Engineering & Computer Science 1999

## WEBSITES

www.cai.com/career/cajobs.htm

www.computerjobs.com

www.nationjob.com/computers

www.studenadvantage.com/

www.computerworld.com/cwi/careers

www.hightechcareers.com

www.hotjobs.com

www.selectjobs.com

www.techweb.com/careers/careers/html

www.brint.comjobs.htm