Using the Major Sheet:
• Large headings indicate **industry** area and subheadings indicate **employers** within that area.
• Use the titles to search for careers and related careers in order to explore your options within different areas of industry. Note that some career titles have multiple names for similar positions.
• An asterisk (*) notes that additional training (certification, graduate school, high level of experience) may be needed in order to obtain this career. Make sure to thoroughly research career pathways.

**PROGRAMMING**
Computer Service Co., Large Corp. /Organizations, Software Development Firms, Computer Manufacturers

**Operating Systems**
• Systems Programmer
• Programmer Trainee
• Software Development Specialist

**Applications**
• Computer Programmer
• Applications Software Developer
• Scientific Applications Programmer
• Associate Applications Developer
• Software Development Specialist
• Information System Programmer
• Field Systems Technician

**Data Communication**
• Data Communications Programmer

**Hardware**
• Computer Chip Designer
• Hardware Designer

**NETWORK ADMINISTRATION**
• LAN Specialist
• Network Administrator
• Communications Specialist

**SYSTEMS ANALYSIS**
Management Consulting Firms, Computer Manufacturers, Computer Service Co.

**DATA PROCESSING MANAGEMENT**
Hospitals, Educational Institutions, Manufacturers, Government, Financial Corporations

**SECURITY**
Data Processing Companies, Banks, Credit Companies, Computer Consulting Firms

**DATABASE MANAGEMENT**
INTERNET
• Web Site Engineer • Website Programmer • Website Analyst
• Cyber Journalist • Web Designer • Internet Consultant

PRODUCT SUPPORT
Hardware/Software Manufacturers
• Service Engineer • Customer Engineer • Product Support Rep.
• Systems Engineer • Field Service Representative • Technical Support Specialist
• Product Support Specialist • Computer Support Specialist • Technical Support Specialist
• Computer Repair Specialist • Technical Support Engineer • Product Designer
• Design Engineer • Project Engineer • Software Engineer
• Test Engineer • Systems Designer • Instrumentation Technician
• Technology Engineer • Circuit Designer • Cable Engineer
• Electronic Drafter • Controls Designer • Semiconductor Developer

DIGITAL IMAGING
Software Development Co., Educational & Publishing Co., Cable Co., TV Networks, Goverment
• Digital Graphic Artist • Computer Game Programmer • CD ROM Producer
• GUI Designer • Multimedia Producer • Clip ROM Production Assistant
• Technical Director • Computer Animator • Graphics Programmer
• Special Effects Programmer • Interactive Multimedia Associate

DOCUMENTATION / PUBLISHING
Comp. Trade Magazines, Hardware/Software Manufacturers, Publishing Houses
• Technical Writer • Documentation Specialist • Technical Librarian

SALES
Retail Stores, Manufacturers, On-line Services Co., Computer Learning Centers
• Sales/Field Sales Representative • Marketing Representative • Product Evaluator
• Sales Engineer • Technical Sales Representative • Software Buyer

HUMAN RESOURCES
• Technical Recruiter • Software Talent Agent • High Tech Headhunter

EDUCATION
In-house Training Dept., Computer Learning Centers, Computer Training Firms
• Computer Education Specialist • Training Specialist • New Product Instructor
• Internet Instructional Designer • Computer Teacher • Internet Instructor

Preparation for a Competitive Job Market:
• Focus on transferable skill sets, as you pursue a degree in Computer Engineering.
• Obtain relevant internship, co-op, or volunteer experiences.
• Supplement Computer Engineering coursework with classes that are relevant to your career.
• Meet with a Career Specialist to explore options, make decisions, and prepare for career choices.

Additional Career Center Resources:
• Major Sheets (CMPE, CMSC, ENMG, HCC, IS, MATH): http://careers.umbc.edu/tools/major-sheets/
• Links by Major: http://careers2.umbc.edu/tools/links.php
• Vault: http://careers.umbc.edu/students/discover/explore-careers-majors/
  -Click on Vault Career Insider portal link and provide UMBC user ID and password
  -Select “Guides” to view relevant guides such as:
• Professional Associations:
  American Association of Engineering Studies: http://www.aaes.org/
  Institute of Electrical and Electronics Engineers: http://www.ieee.org/education_careers/index.html
  National Society of Black Engineers: http://www.nsbe.org/home.aspx
  Society of Women Engineers: http://societyofwomenengineers.swe.org/