

Overview

CSMC 104 – Problems Solving and Computer Programming

Overview

- Are you in the right class?
 - Careers / degrees in the computer technologies
 - UMBC Undergraduate degrees
 - CMSC 104
- UMBC Information Resources
 - My UMBC, Email, Blackboard
 - Course web site
- BBC History of Computers Part 1
 - www.youtube.com/watch?v=NbhbssXWDAE&feature=related

Careers / Degrees in Computers

- Slides adapted from textbook
 - Chapter00_Grasso.pdf

UMBC Computer Degrees

- UMBC - Colleges

- [College of Arts, Humanities and Social Sciences](#)
- [College of Natural and Mathematical Sciences](#)
- [College of Engineering and Information Technology](#)
 - Department of Chemical and Biochemical Engineering
 - Department of Civil & Environmental Engineering
 - Department of Computer Science & Electrical Engineering
 - Department of Information Systems
 - Department of Mechanical Engineering

UMBC Computer Degrees

- Computer Science and Electrical Engineering Department
 - Chemical & Biochemical Engineering
 - Mechanical Engineering
 - Information Systems
 - Computer Science & Computer Engineering
 - <http://www.umbc.edu/catalog/2010/display.php?major=18#ComputerScienceMajorProgram>

Am I in the Right Class?

- CMSC 104
 - Assumes **NO** programming experience
 - Prepares you for CMSC 201
 - Does NOT count towards the CS major
 - Meets a requirement for other majors: i.e. Physics, Financial Economics
- CMSC 201
 - Assumes some programming experience
 - First CMSC course for CS majors
 - MUCH more challenging

CMSC 104 - What Will We Cover?

- General computer hardware and software concepts
- Basic computer use
- Problem solving
- Basic computer programming in the C programming language

CMSC 104 - Hardware and Software Concepts

- Introduction to computer architecture
- Data representation and memory usage
- Introduction to operating systems

CMSC 104 - Basic Computer Use

- Basic use of
 - an operating system – Linux
 - a text editor

CMSC 104 - Problem Solving

- Problem solving and algorithm development
 - general vs. specific solution to a problem
 - use of top-down design
 - use of pseudocode

CMSC 104 - Basic Computer Programming

- C programming language
 - just the basics
- Compiling, linking, and executing a computer program
- Testing and debugging a computer program

UMBC Information Resources

- My UMBC
- Email
- Blackboard
- Course web site

MyUMBC

- my.umbc.edu
- **Log In** button is on the far right
- You should have been given a username and initial password by the university.
 - Change your password the first time you log in

If Someone Knows Your Password

- **Change it NOW!!!**
- Your password is just that - **yours** and only yours. You should not share it with anyone.
- If you think someone knows your password. Here is what you should do...
 - Change your password *immediately*.
 - Report this incident to helpdesk@umbc.edu. OIT keeps a log of all activities in all UNIX accounts. Any unauthorized access can be tracked given ample research time.
- You are legally liable for any action caused under your account.

MyUMBC - Email / Gmail

- gmail.umbc.edu
- Your e-mail address is :
 - username@umbc.edu
- You can:
 - Add other email accounts
 - Forward Gmail to other addresses
 - Set it up to work with Outlook, Eudora, etc
- Google @ UMBC
 - <http://my.umbc.edu/groups/google>

MyUMBC - Blackboard

- Click on **Blackboard** tab on MyUMBC home page
- Links to all your courses will appear in the **My Courses** box
- [CMSC 104 Problem Solving and Computer Programming](#)
 - Announcements
 - Grades
 - Calendar
 - Syllabus
 - Link to course web site

Course Web Site

- userpages.umbc.edu/~cgrasso/cs104.f11/index.shtml
- Home
 - Contact Info
 - Compute Science Help Center
- Syllabus
- Schedule
- Homework
- Resources

Division of Information Technology (DoIT)

- www.umbc.edu/doit/
 - [Accounts and Passwords](#)
 - [Computing Labs and Facilities](#)
 - [Email and Calendaring](#)
 - [Wireless and Infrastructure Support](#)
- Help Tickets
 - <https://my.umbc.edu/help/request>
 - COEIT queue

Your GL Account

- GL is short for “General Labs.”
 - These labs contain an assortment of dual-bootable Windows / Linux PCs, Macintosh's, and several IRIX machines.
- GL lab locations and hours of operation:
 - wiki.umbc.edu/display/doit/Computing+Labs+and+Facilities.
- The username and password on this account are also your username and password for my.umbc.edu/.

BBC History of Computers - Part 1

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