Introduction & Course Overview

Dr. Robert Lowe

Division of Mathematics and Computer Science
Maryville College





Outline

Syllabus

2 Linux Environment





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Course Description

An introduction to computer science and structured programming with emphasis on program design and implementation, debugging, documentation, and programming projects. Laboratory work supplements and expands lecture topics and offers supervised practice using programming.





Required Materials

- Big C++. 3/e. Cay Horstmann. https://tinyurl.com/bigcpp
- An internet connected computer of some sort.





Grading

Category	Weight
Exams	30%
Quizzes	15%
Attendance & Hands-On Lab Activities	20%
Programming Assignments	35%





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- An honest failure is respectable. Cheating is contemptible.





Do not cheat.





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- Students with disabilities should contact the academic support center 981-8124 to coordinate accommodations.





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- Click the link in your email to set your password.













Username: first.last Server: cs.maryvillecollege.edu Port: 22

Windows

Launch Putty







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Enter the servername.





- Windows

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 - Enter the servername.
 - Olick open





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 - When prompted, enter your username and then password.

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- MacOS X Launch terminal
 - Enter the command: ssh first.last@cs.maryvillecollege.edu
 - Press enter



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- MacOS X Launch terminal
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 - Enter password when prompted.

• Commands are entered in the following pattern: command arg1 arg2...





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 - ls -l -a
 - 4 man ls
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ls List files in the current directory





ls List files in the current directory mkdir name Create a Directory





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pwd Show the present working directory





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ls List files in the current directory mkdir *name* Create a Directory pwd Show the present working directory cd directory Change Directory Let's try it out!

- **2** 1s
- cd humor

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ls List files in the current directory

mkdir name Create a Directory

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cd directory Change Directory

Let's try it out!

- mkdir humor
- **2** ls
- 3 cd humor
- pwd





cp src dest Copy a file





cp src dest Copy a file my src dest Move a File





cp src dest Copy a file

mv src dest Move a File

rm filename Remove a file (be careful!)





cp src dest Copy a file
mv src dest Move a File
rm filename Remove a file (be careful!)
less filename View a file



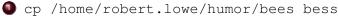


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rm filename Remove a file (be careful!)
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Let's try it out!





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- o cp /home/robert.lowe/humor/bees bess
- **2** ls





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- 1 mv bess bees





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- 1 my bess bees
- **4** ls
- form bees





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- 1 my bess bees
- **4** ls
- form bees
- **6** ls





```
cp src dest Copy a file
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 - O cp robert.lowe/humor/* .





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Text Editing

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 - nano A simple editor, original designed for muggles to use with email.
 - vi Visual Editor a modal text editor.
 - emacs A very elaborate and powerful editor.









Let's take a look at games installed on the system!

1 ls /usr/games





- 1 ls /usr/games
- 2 ls /usr/local/games





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- Try typing some of the names that came up. Some of my favorites are:





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 - nethack





Homework For Next Time

Play around with the three major editors and pick which one you wish to use. (You can change your mind later.)

- vi Run vimtutor from the command prompt to get the vim tutorial.
- emacs Run emacs from the command prompt to run emacs.
 - press "Control+h" followed by "t" to get to the tutorial
- nano Just mess around. This is not an editor for serious programmers, but if you like it then you do you!



