

Blank Page

Prof. Burt Rosenberg
 Ungar 523, x-2575
 Office hours: TBA.

MTH 322-S (Fall, 1994)
 Time: Tu., Th. 3:05 – 4:20 P.M.
 Room: MM 306

- **Goals:**

In this course we will learn C Programming, the Unix system library, and the Unix program development environment.

- **Prerequisites:**

Students should already have some programming experience in some high level language.

- **Text:**

1. A BOOK ON C by Al Kelly and Ira Pohl.
2. UNIX FOR PROGRAMMERS AND USERS by Graham Glass. Prentic-Hall, 1993. ISBN 0-13-480880-0.

- **Computer Facilities:**

You will be working on Impala.ir.miami.edu, a DEC Station 5000 administrated by Information Resources and running Ultrix, DEC's version of BSD Unix. Accounts will be created on this computer for each student enrolled in this course. Handouts about log in, commands, editing and email are provided by Information Resources.

- **Unix:**

Here are the important commands for unix programming:

<code>ls -l</code>	List your directory.
<code>man ls</code>	Get manual page for ls, or some other program.
<code>passwd</code>	Change your password.
<code>rm filename</code>	Remove filename.
<code>more filename</code>	Display your file.
<code>lpr filename</code>	Print your file.
<code>vi filename</code>	Edit your file.
<code>cc filename</code>	Compile your program.
<code>a.out</code>	Run your program, default executable name.
<code>logout</code>	Logout.

- **Editing:**

Vi has two modes, *command* and *text*. Type in text mode, edit in command mode. Here are some important commands for vi:

i, a, o	Command mode → text mode. Insert, append, open.
[ESC]	Text mode → command mode.
h, j, k, l	Move left, down, up, right.
/pat, ?pat	Search forward, reverse, for <i>pat</i>
:wq, :q!	Write and quit, quit without writing.
x, D, dd	Delete character, to end of line, this line.

- **Directories:**

Here are some commands for managing the directory hierarchy:

pwd	Print current directory.
cd	Change to home directory.
cd <i>dirname</i>	Change directory to directory <i>dirname</i> .
cd ..	Change to parent directory.
cd /	Change to root directory.
rmdir <i>dirname</i>	Remove directory <i>dirname</i> .
mkdir <i>dirname</i>	Make directory <i>dirname</i> .

- **Assignment Zero:**

Write the “Hello World” program in C on Impala. Compile and run it.