

# Lab 00 (Due: Monday, August 21, 2017, 11 : 59 : 00pm Central Time)

CSCE 155*N*

## 1 Lab Objectives

- Log into the network using a Windows machine and your CSE account
- List the lab rules and hours of operation
- **Understand the academic integrity policy of the Department of Computer Science and Engineering**
- Know where to find help regarding CSE accounts and lab facilities
- Download and run MATLAB on your personal computer
- Use the locally installed MATLAB Interactive Development Environment (IDE) to create and update MATLAB source code
- Use the MATLAB IDE to execute simple M-Files
- Use the online [handin](#) and [webgrader](#) utilities to submit programming assignments and laboratory work

## 2 Prior to Laboratory

- Review the laboratory handout

## 3 Topics Covered in Lab

- Lab Introduction
- CSE Account
- MATLAB on Personal Computers using MATLAB License Provided by UNL
- IDE Introduction
- Remote Access FAQ
- Finding Help

## 4 Background

### 4.1 MATLAB on Personal Computers

- **MATLAB Licenses**

UNL Email Address Required (@huskers.unl.edu, @cse.unl.edu, @unl.edu, etc.)

- Version 2015a

### 4.2 Network File Share

1. Log on to `cse.unl.edu` Domain on Lab Computers
2. Network Drive is **Z:** Directory

#### 4.2.1 SSH

You can access your **Z:** Directory from anywhere.

1. **SSH Secure Shell Client**

**FileZilla**

2. Host: `cse.unl.edu`
3. Username: Your CSE Username
4. Password: Your CSE Password
5. Port: 22

## 5 Activities/Exercises

- Creating and Editing a MATLAB M-File
- Executing a Program
- Getting Help with MATLAB
- More Work with the IDE

### 5.1 Running MATLAB and Getting Help

#### 5.1.1 On a CSE Computer

1. Create `csce155n` Directory in **Z:** Drive
2. Run MATLAB
3. Observe the Output of the Command `help cd`
4. Observe the Output of the Command `lookfor pie`
5. Create `lab00` Directory in `Z:\csce155n` Interactively or with the Command `mkdir Z:\csce15n\lab00`
6. Change *Current Directory* using command `cd Z:\csce155n\lab00`

### 5.1.2 On a Non-CSE Computer

1. Create `csce155n` Directory in an easily accessible location (Desktop, flash drive, etc.)
2. Run MATLAB
3. Observe the Output of the Command `help cd`
4. Observe the Output of the Command `lookfor pie`
5. Create `lab00` Directory in your chosen location Interactively or with the Command `mkdir lab00`
6. Change *Current Directory* using command `cd lab00`

## 5.2 M-Files

1. Download the `.m` files from  
<https://cse.unl.edu/~cse155n/labs/00/> to the `lab00` Directory
2. Open file `helloworld.m` in `Z:\csce155n\lab00`  
Use Open → Open...  
Use Command `edit helloworld.m`
3. Place the line `string = inputdlg( 'Enter your name' ); name = string{ 1 };` in the function `getName`
4. Place the line `message = sprintf( 'Hello, %s!' , name ); msgbox( message );` in the function `printMessage`
5. Place the line `name = getName(); printMessage( name );` in the function `helloworld`
6. Save All `.m` Files
7. Type `lab00GUI` into the Command Window

## 5.3 members00lab.txt

1. Go to <http://cse.unl.edu/cse155n/members/>
2. Select your name from the **User** menu
3. Click **Submit**

## 5.4 contributions00lab.txt

1. Go to <http://cse.unl.edu/cse155n/contributions/>
2. Select your name from the **User** menu
3. Select a **positive** value from the menu on the line below the **User** menu
4. Write **your** explanation of what you contributed to completing the lab
5. Click **Submit**

## 5.5 webhandin

1. Go to <https://cse.unl.edu/handin>
2. Enter your `cse.unl.edu` Username
3. Enter your `cse.unl.edu` Password
4. Select Lab 00 from the Assignments
5. Choose to upload `helloworld.m`

## 5.6 webgrader

1. Go to <https://cse.unl.edu/~cse155n/grade>
2. Enter your `cse.unl.edu` Username and Password
3. Select Lab 00 from the **Assignment** Dropdown Menu
4. Click **Grade Me!**
5. Click the Generated Link
6. Enter your `cse.unl.edu` Username and Password
7. Confirm the Information in the PDF

## 6 Additional Resources

[CSE System FAQ](#)

[Request a Huskers Account](#)

[MATLAB Online Help](#)

## 7 Think About...

- What ways are there to get help while writing a program?
- What are the advantages of having your Z: drive available from both Windows and UNIX?
- When should you check your print quota? When you should check your disk quota?

## 8 Point Allocation

Component	Points
<code>helloworld</code>	25
<code>getName</code>	25
<code>printMessage</code>	25
<code>members00lab.txt</code>	10
<code>contributions00lab.txt</code>	15
Total	100