

CS202: Lab Plan

Spring 2018

(The following dates are subject to change!)

Week #1 Lab Session:

**By Lab#1 – Get a CS Account
(prior to your first lab!)**

Linux Lab #1 – For students new to PSU:

Putting the pieces together of a C++ Program

Linux Level #3.1 – vim Tips

Students who have not completed the linux & vim exercises from CS162 and CS163 must start with Level #1 and 2

CS202 Lab #1 – Getting Started with OO Concepts

Read the background information prior to attending lab

Learn about UML Diagrams

There are NO Prelab Exercises for the first lab!

- If you can't complete the entire lab, consider attending a makeup session
- Complete the self-check quiz in the CS202 lab manual after you have finished the lab! Remember to work on the self-check quiz as closed-book, closed notes!

Week #2 Lab Session:

Bring completed Prelab Exercise!

Linux Exercise #3.2 – vim Tips

CS202 Lab #2 – Inheritance

- Bring your two Lab books and have the CS202 Lab #2 Pre-Lab exercises completed!
- Remember to read the background information before attending lab
- In review, pay close attention to the Linux exercises #1.4 and 1.5 on backing up and archiving
- Complete the self-check quiz in the CS202 lab manual after you have finished the lab! Remember to work on the self-check quiz as closed-book, closed notes!
- Bring your Pre-Lab exercise completed!
- Examine design methodologies
- *Building an employee OO program for a local department store*

Week #3 Lab Session:**Bring completed Prelab Exercise!****Linux Exercise #3.3 – File Types and Permissions****CS202 Lab #3 – Dynamic Binding**

- Bring your Pre-Lab exercise completed!
- *Implement solutions using dynamic binding*
- Complete the self-check quiz in the CS202 lab manual after you have finished the lab!
Remember to work on the self-check quiz as closed-book, closed notes!
- And, remember to program every day!!

Week #4 Lab Session:**Bring completed Prelab Exercise!****Linux Exercise #3.4 – Utilities****CS202 Lab #4 – Review Data Structures and Recursion**

- Bring your Pre-Lab exercise completed!
- Remember to read the background information in the lab manual prior to completing the prelab exercises
- *Practice recursive solutions with linear, circular, and doubly linked lists*
- Use the self-check quiz after the lab is over to determine your level of proficiency!
- *** Pay particular attention to the CS202 CS Midterm Proficiency Demonstration section

Week #5 Lab Session:**Bring completed Prelab Exercise!****Linux Exercise #3.5 – Searching with grep****CS202 Lab #5 – Exception Handling**

- Bring your Pre-Lab exercise completed!

Week #6 Lab Session:**Bring completed Prelab Exercise!****Linux Exercise #3.6 – Make****CS202 Lab #6 – Operator Overloading**

- Bring your Pre-Lab exercise completed!
- *Experience operator overloading*

Week #8 Lab Session:

Install an IDE prior to Lab!
Bring completed Lab #8 Prelab Exercise!

Linux Exercise #3.7 – Revision Control

CS202 Lab #7 – IDE Tutorial

- Bring your Pre-Lab #8 exercise completed!
- *Aimed at first time Java programmers*
- *Students that already know Java should assist other students*

Week #9 Lab Session:

Bring completed Lab #9 Prelab Exercise!

Linux Exercise #3.8 – vim Preparation

Lab #8 – Java Workshop

- *Aimed at first time Java programmers*
- *Students that already know Java should assist other students*

Week #9 Lab Session:

Bring completed Prelab #9 Exercise!

Linux Level #3 Self Check Exercises

CS202 Lab #9 – Recursion in Java

Week #10 Lab Session:

Bring completed Prelab #10 Exercise!

C202 Lab #10 – BST Review * Important to prepare for final prof. demos!**

- Practice for Proficiency Demos
- *Review and Practice for the final proficiency demonstration*

**Final Proficiency Demos take place
BY APPOINTMENT ONLY.**