

CS 111 -- Spring 2015

Introduction to Data Structures

MWF 11-11:50 801 ESB

Lab T (3), W (5), F (1) ESB 756

Policies and Procedures

Instructor: Cindy Tanner **E-Mail:** cindy.tanner@mail.wvu.edu

WWW URL: www.csee.wvu.edu/~tanner

Office: 951 ESB **Phone:** 293-9138

Office Hours: Monday 1-2:50, Wednesday 1:00-2:50,
Thursday 1-3, Friday 1:30-2:50 and by Appointment

Lab Instructor: Nithin Uppalapati

Text: Prichard & Carrano, Data Abstraction and Problem Solving with Java, Walls and Mirrors. Third Edition. Addison Wesley.

Pre-requisite: CS 110, minimum grade of C.

Grading: The requirements for this class will be three COMPREHENSIVE EXAMS, a final exam, and assigned work, which will consist of quizzes and programming exercises, as assigned in lab. The breakdown of percentages is as follows:

Three Exams	13.3% each
Final Exam	25% Thursday May 7 3-5
Homework	10%
Lab Grade	25%

Tentative Exam Schedule:

Exam I:	Week of February 9th
Exam II:	Week of March 16th
Exam III:	Week of April 13th

THERE WILL BE NO MAKEUP EXAMS without prior approval.

Letter Grades will be assigned as follows:

90%-100%	A
80%-89%	B
70%-79%	C
60%-69%	D
< 60%	F

Audits: This class can not be taken for audit credit.

Attendance: Attendance is not required nor will it be kept track of formally, however all students are responsible for all material covered during lectures and/or assigned to be done outside of class. Since you are not required to attend if you choose to you should be fully present thus, **CELL PHONES CAN NOT BE USED** in any way during class.

Late Assignments: No assignment will be accepted late under any circumstances, turn in whatever is done at the due date/time...partial credit is better than none.

Academic Dishonesty: All work is to be done on an **INDIVIDUAL** basis. Evidence to the contrary will be regarded as academic dishonesty and will be dealt with swiftly and decisively in accordance with the provisions outlined in the WVU Undergraduate catalog.

Social Justice: The West Virginia University community is committed to creating and fostering a positive learning and working environment based on open communication, mutual respect, and inclusion.

If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please advise me and make appropriate arrangements with the Office of Disability Services (293-6700). For more information on West Virginia University's Diversity, Equity, and Inclusion initiatives, please see <http://diversity.wvu.edu>."

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Tentative Syllabus -- Spring 2015

Text: Prichard & Carrano, Data Abstraction and Problem Solving with Java. Third Edition.

Upon successful completion of this course, students will:

- Gain a broader knowledge of OOP via Java by designing and implementing classes, generic classes, inheritance, and polymorphism,
- Gain a broader understanding of the goals and principles of Software Engineering and demonstrate principles via Lab projects and exams
- Be able to design and implement basic data structures (internal view)
- Be able to use data structures and recursion for solving problems (external view)

Topic	Chapter
Java Review	1
LCSEE Computer Systems	handout
Software Engineering	2
Recursion	3,6
Abstract Data Types	4, 9
Collections Frameworks	5.5
Stack	7.1, 7.2, pages 371-373, 7.4-7.6
Queue	8.1, 8.2, pages 426-432, 8.5
Linked List	5.1, 5.4
Position Oriented ADTS	pages 433-434
Implementing Stacks, Queues, and Lists	7.3, 8.3, 5.2-5.3
Trees	11
