**CS311 Yoshii – Week 1 Tuesday (Notes-1A)**

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1. **Syllabus and orientation material**
2. **Self-Introduction**
3. **CS311 Questionnaire.doc due on Thursday to stay in class**
4. **Downloading of files and using putty**
5. **Using Cougar Courses**
6. **Go over CS311 HW Due Dates.doc and CS311 Your Grade.xls**
7. **Refer to CS311 How To Comment.doc**
8. **Refer to Notes-0\_adt.doc for those who are new to C++**
9. **Review of CS211 Final Exam up to stacks**

**The first two weeks will be a review because some students have never used C++ and have never created stack and queue classes.**

Algorithms and Data Structures we will learn in this class are for:

* Evaluating post fix expressions
* Generating all strings made up of a set of characters
* Searching through a list
* Searching through a sorted list
* Sorting
* Priority queue
* Traversing trees
* Balancing trees
* Traversing graphs
* Maximizing the profit in filling a knapsack
* Finding a minimum tree within a graph
* Finding the shortest path in a graph
* Hashing
* Garbage collection

We cannot cover all known algorithms for these problems. Therefore, you are encouraged to read about other algorithms and do presentations in class. **(see CS311 Presentation Extra Credit).**  
**The End of the Note Section:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***®Summarize here what you have learned in your own words and also write down your own thoughts/reactions/questions.***

***Email me now if you have any questions about what you read in this file.***