Course: CS261- Data Structures

Credits: 4

Instructor's name: Samina Ehsan Instructor's email: ehsan@eecs.oregonstate.edu

OSU catalog course description, including pre-requisites/co-requisites:

Complexity analysis, Approximation methods, Trees and graphs, File processing, Binary search trees, Hashing, Storage management. Lec/rec. **PREREQS:** ((ECE 152 or CS 162) and MTH 231)

Course Content:

The course content is described as followed -

Unit	Course Topics
#1	 Reading: Chapters 1-4 Lecture: Course Introduction Worksheets 9 and 10 (Review Content.) Video: C_Basics_Review Video: eclipseProjectFromMakefile Code: studentStructExample Video: C_Pointers_Review Video: Static_dynamic_structCodeExamples Code: studentStructExample Code: dynamicStudentStructExample Video: C_Compiling_Review Programming Assignment#1 – C Pointers Practice (Due 10/5)
#2	 Reading: Chapter 5 Video: AbstractDataTypes Worksheet0_Array_Bag_Stack Solution Code: arrayBagStack Reading: Chapter 6 pp. 1-10 Video: DynamicArrayConcepts Worksheet15_DynArr_Amortized Video:DynamicArrayImplementation Worksheet14_DynArr Worksheet14_DynArr_Stack Reading: Chapter 8 pp. 1-4 Worksheet21_DynArr_Bag SolutionCode: dynamicArray [locked until after assignment turned in] Programming Assignment#2 - Amortized Analysis and Dynamic Array Stack Application (Due 10/12)
#3	 Reading: Chapter 7 pp. 1-2, 6-10 Video: DynamicArrayDequeIntro Worksheet20: Dynamic Array Deque and Queue (Read the Introduction) Solution Code: DynamicArrayDeque Video: DynamicArrayDequeImplementation

	Worksheet 20: Dynamic Array Deque and Queue (Complete the implementation)
	Reading: Chapter 6 pp. 10 - 19
	Video: LinkedListIntro
	Worksheet17: LinkedList Stack
	Solution Code: Linked List Stack
	Reading: Chapter 7 pp. 4-6
	Video: LinkedListQueue
	Worksheet18: LinkedList Queue
	Solution Code: Linked List Queue
	Video:LinkedListDequeue Madala has 140 LinkedList Degree
	Worksheet19: LinkedList Deque Calution Code: LinkedHist
	Solution Code: LinkedList Description Assistance (1/2)
	Programming Assignment#3 - Circular Linked List (Due 10/19)
#4	Reading: Chapter 8 pp. 4-9
	Worksheet 22: Linked List Bag
	Video: Iterator ADT
	Worksheet 24: Linked List Iterator
	Code Demo Video: Linked List Iterator
	Code: Linked List iterator Code: LinkedListIterator (Folder)
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	Reading: Chapter 9 National Associated Biographics
	Video: Ordered Arrays and Binary Search
	Worksheet26: Ordered Bag using Ordered Array
	Video or Handout: Binary Search Argument of Correctness
	No Assignment – STUDY FOR MIDTERM
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#5	
#5	Reading: Chapter 10 pp. 1-5, 13-19
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26)
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29
#5	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2)
	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet)
	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1
	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2
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	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough
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	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough
	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder)
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7 Video: Heaps I
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7 Video: Heaps I Worksheet: Heaps Practice
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7 Video: Heaps I Worksheet: Heaps Practice Video: Heaps II
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7 Video: Heaps I Worksheet: Heaps Practice Video: Heaps II Worksheet: 33 Heaps and Priority Queues
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7 Video: Heaps I Worksheet: Heaps Practice Video: Heaps II Worksheet: 33 Heaps and Priority Queues Reading: Chapter 11 pp. 7 - 14
#6	 Reading: Chapter 10 pp. 1-5, 13-19 Video: Trees Intro Video: BST 1 Worksheet 28 Video: BST 2 Worksheet 29 Midterm Exam (Friday 10/26) Homework#4 Binary Search Trees (Due 11/2) Reading: Worksheet 31 (do not complete yet) Video: AVL 1 Video: AVL 2 Worksheet AVL Practice Video: AVL Implementation – code walkthrough Code: AVLTree (Folder) Worksheet 31 – complete the implementation Reading: Chapter 11 pp. 1-7 Video: Heaps I Worksheet: Heaps Practice Video: Heaps II Worksheet: 33 Heaps and Priority Queues

	Assignment #5: Heap Implementation of a To-Do List (Due 11/16)
#8	 Reading: Chapter 10 pp. 5-13 Video: Tree Traversals Worksheet#32 TreeSort Video: BST Iterator Worksheet #30 Redo Worksheet#32 using BST Iterator Reading: Chapter 12 pp. 1-3 Video: Maps Worksheet#38 – Dynamic Array Dictionary Code: DynArryMap (Folder)
#9	 Reading: Chapter 12: pp. 3-6 Video: HashTables Intro Video: HashTables_OpenAddressing Worksheet37: Open Address Hashing Reading: Chapter 12: pp. 6-15 Video: HashTables_Chaining Worksheet 38.links.pdf: HashTables Using Buckets Video: Hash-Like Sorting Worksheet:#39 Radix Sorting Assignment #6: HashTable Implementation of a Concordance (Due 11/23)
#10	 Reading: Chapter 13: Graphs Video: Graphs Intro Worksheet40: Graph Representations Video: GraphAlgorithms I Worksheet41: Depth-First and Breadth-First Search Reading: Chapter 7 pp. 2-4 Video: GraphAlgorithmsII DFS/BFS Video: GraphAlgorithms III Dijkstra Worksheet42: Dijkstra's Algorithm More Practice: bfs.pdf, dfs.pdf, dijkstras.pdf Assignment #7: HashTables and Graphs (Written Only) (Due 11/30) STUDY FOR THE FINAL EXAM

Blackboard — This course will be delivered via Blackboard, your online learning community, where you will interact with your classmates and with me. Within the course Blackboard site you will access the learning materials, tutorials, and syllabus; discuss issues; submit assignments; take quizzes; email other students and the instructor; participate in online activities; and display your projects. To preview how an online course works, visit the <u>Ecampus Course Demo</u>. For technical assistance, Blackboard and otherwise, see http://ecampus.oregonstate.edu/services/technical-help.htm.

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Course Learning Objectives

At the completion of the course, students will be able to...

- 1. **describe** the properties, interfaces, and behaviors of basic abstract data types, such as collection, bag, indexed collection, sorted collection, stack, and queue.
- 2. **read** an algorithm or program code segment that contains iterative constructs and **analyze** the asymptotic time complexity of the algorithm or code segment.
- 3. **state** the asymptotic time complexity of the fundamental operations associated with a variety of data structures, such as vector, linked list, tree, and heap.
- 4. **recall** the space utilization of common data structures in terms of the long-term storage needed to maintain the structure, as well as the short-term memory requirements of fundamental operations, such as sorting.
- design and implement general-purpose, reusable data structures that implement one or more abstractions.
- 6. **compare** and **contrast** the operation of common data structures (such as linear structures, priority queues, tree structures, hash tables, maps, and graphs) in terms of time complexity, space utilization, and the abstract data types they implement.

Learning Resources:

Online: CS261_ClassNotes_Fall2012.pdf (required and will be available on Blackboard)
The C Pocket Reference by Peter Prinz and Ulla Kirch-Prinz (Required) (or, an equivalent C reference book)

Evaluation of Student Performance:

- 35% Homework Assignments
- 15% Worksheets and Class Participation
- 20% Midterm
- 30% Final

Worksheets and Class Participation (15%)

Each week, you will be given 1-3 worksheets to complete in a group setting through online discussion. These worksheets are very important to your understanding of the material and often contain additional reading material as well as exercises (problems, coding, etc.).

Worksheets are graded primarily based on participation and effort, rather than correctness. If you have made a reasonable effort to complete a worksheet (evidenced by online discussion), you will receive full credit for it. These worksheets are supposed to enhance the lectures using hands-on learning. In most cases, completion of the worksheet will be the first step of the upcoming assignment. Worksheets are designed to be finished in 30-50 minutes.

Homework Assignments (35%)

There are 7 total assignments to be completed over the course of this class.

- Assignments include writing a computer program and sometimes written answers to questions.
- Assignments are to be turned in **before 23:59** on the date they are due. **NOTE**: You are permitted one late programming assignment to use at any time during the quarter. The late assignment must be submitted no more than 48 hours after the original deadline. This means that if an assignment is due on Oct 1 at 23:59, you may turn it in as late as Oct 3 at 23:59.
- Programs are evaluated on how well they solve the assigned problem (adhering to program specification), as well as the proper formatting and use of comments.
- Programming assignments must compile.
- You will turn in your assignments through the blackboard website.
- If you have a problem with an assignment grade, you must contact the teaching assistant, who graded your assignment, through EMAIL within ONE WEEK of receiving your grade.

Exams (50% Total)

- There are 2 total exams for this course.
- The midterm is given in Week 5 and the Final in Week 11.
- The midterm is designed to take 50 minutes maximum.
- The final is designed to take 90 minutes maximum.
- Exams will be proctored, so you should schedule your exams as soon as possible. There is generally a small fee associated with exam proctoring. For more information please visit: http://ecampus.oregonstate.edu/services/proctoring/

**REMINDER: This course requires that you take 2 exams under the supervision of an approved proctor. Proctoring guidelines and registration for proctored exams are available online through the Ecampus testing and proctoring website. It is important to submit your proctoring request as early as possible to avoid delays.

Course Policies:

Grading Policies:

100 >=A>= 92.5
92.5 >=A->= 89.5
89.5 >=B+>= 86.5
86.5 >=B>= 82.5
82.5 >=B->= 79.5
79.5 >=C+>= 76.5
76.5 >=C>= 72.5
72.5 >=C->= 69.5

69.5 >=D+>= 66.5
66.5 >=D>= 62.5
62.5 >=D->= 59.5
59.5 >=F

** **REMINDER**: A passing grade for core classes in CS is a C or above. A C-, 72 or below, is not a passing grade for CS majors.

Exam Policies — Preparing makeup exams requires a significant effort on the part of the instructor. Consequently, makeup exams will not routinely be given. Makeup exams will be given only for missed exams excused in advance by the instructor. For missed exams that can be anticipated ahead of exam time, advance permission from the instructor to miss the exam will be necessary. Excused absences will not be given for airline reservations, routine illness (colds, flu, stomach aches), or other common ailments. Excused absences will generally not be given after the absence has occurred, except under very unusual circumstances. Regrades of exams will be performed when there is an error and the student requests it. All requests for regrading must be made within 3 class days of the day the exam is returned. After that period of time, grades will be fixed and will not be changed. (BB 450 Instructor: Kevin Ahern)

Incompletes — In this online program, there will rarely be cases where an incomplete is appropriate. The instructor will only consider giving an incomplete grade for emergency cases such as a death in the family,major disease, or child birth, while also having completed at least 60% of all coursework. If you have a situation that may prevent you from completing the coursework, let the instructor know as soon as you can.

(CS 162 Instructor: Joseph Jess)

Statement Regarding Students with Disabilities:

Accommodations are collaborative efforts between students, faculty and <u>Disability Access Services</u> (<u>DAS</u>) with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

Expectations for Student Conduct:

Student conduct is governed by the university's policies, as explained in the Office of Student Conduct: information and regulations. In an academic community, students and faculty, and staff each have responsibility for maintaining an appropriate learning environment, whether online or in the classroom. Students, faculty, and staff have the responsibility to treat each other with understanding, dignity and respect. Disruption of teaching, administration, research, and other institutional activities is prohibited by Oregon Administrative Rule 576-015-0015 (1) and (2) and is subject to sanctions under university policies, OSU Office of Student Conduct.

Academic Integrity - Students are expected to comply with all regulations pertaining to academic honesty, defined as: *An intentional act of deception in which a student seeks to claim credit for the work or effort of another person or uses unauthorized materials or fabricated information in any academic work.* For further information, visit <u>Avoiding Academic Dishonesty</u>, or contact the office of Student Conduct and Mediation at 541-737-3656.

Academic Dishonesty - The following three policies apply:

- OSU policy: http://oregonstate.edu/studentconduct/achon.htm
- College of Engineering policy: http://engr.oregonstate.edu/students/advising/policy.html#honesty
- CS policy: http://eecs.oregonstate.edu/undergraduate/cs/dishonesty.html

Additionally, programming assignments in this course are considered Take Home Programming Tests. You must do your own work, entirely.

- You MAY discuss the meaning of assignments, general approaches, and strategies with other students in the course.
- You MAY show your code to the TAs or instructor for feedback and help.
- You MAY use the Internet to research how to solve a problem.
- You MUST include a citation in the form of a comment in your source code to indicate the source of any help you received (except the TAs).
- You MUST ALSO include a citation if you collaborated with any other student in any way (both the giver and receiver).
- You MAY NOT share assignment code, pseudocode, or documentation of any kind with any other student in the course.
- You MAY NOT show your assignment code to another student in the course for any reason.
- You MAY NOT ask another student for help debugging your assignment code.
- You MAY NOT use or copy code from any other source, including the Internet.
- You MUST write your own code for your assignments.

(Adapted from statements provided by Dr.Ronald Metoyer, CS)

Conduct in this online classroom — Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the <u>university's regulations regarding civility</u>. Students will be expected to treat all others with the same respect as they would want afforded themselves. Disrespectful behavior to others (such as harassing behavior, personal insults, inappropriate language) or disruptive behaviors in the course (such as persistent and unreasonable demands for time and attention both in and out of the classroom) is unacceptable and can result in sanctions as defined by Oregon Administrative Rules Division 015 Student Conduct Regulations.

(Adapted from statements provided by Becky Warner, SOC)

Communications:

Ground Rules for Online Communication & Participation:

- Online threaded discussions are public messages, and all writings in this area will be viewable by the entire class or assigned group members. If you prefer that only the instructor sees your communication, send it to me by email, and be sure to identify yourself and the class.
- Posting of personal contact information is discouraged (e.g. telephone numbers, address, personal website address).

- Online Instructor Response Policy: I will check email frequently and will respond to courserelated questions within 24 hours.
- Observation of "Netiquette": All your online communications need to be composed with fairness, honesty and tact. Spelling and grammar are very important in an online course. What you put into an online course reflects on your level of professionalism. Here are a couple of references that discuss
 - writing online: http://goto.intwg.com/
 - o netiquette: http://www.albion.com/netiquette/corerules.html.
- Please check the Announcements area and the course syllabus before you ask general course "housekeeping" questions (i.e. how do I submit assignment 3?). If you don't see your answer there, then please contact me.

(Adapted from Jean Mandernach, PSY)

Guidelines for a productive and effective online classroom

- The discussion board is your space to interact with your colleagues related to current topics or responses to your colleague's statements. It is expected that each student will participate in a mature and respectful fashion.
- Participate actively in the discussions, having completed the readings and thought about the issues.
- Pay close attention to what your classmates write in their online comments. Ask clarifying
 questions, when appropriate. These questions are meant to probe and shed new light, not to
 minimize or devalue comments.
- Think through and reread your comments before you post them.
- Assume the best of others in the class and expect the best from them.
- Value the diversity of the class. Recognize and value the experiences, abilities, and knowledge each person brings to class.
- Disagree with ideas, but do not make personal attacks. Do not demean or embarrass others. Do not make sexist, racist, homophobic, or victim-blaming comments at all.
- Be open to be challenged or confronted on your ideas or prejudices.

(Adapted from a statement provided by Susan Shaw, WS)

Student Assistance:

Contacting the instructor —

- Sending email is the best and the most preferred way to ask any question related to the course. If needed, we can use Skype or Google Hangout for discussion.
- We will have constant TA support, so it should be possible to get help at any time.
- I will maintain virtual office hours based on student needs. We should discuss this early in the course.
- Blackboard has several methods of communicating, but I would prefer we use a discussion board so that we can refer back to our previous discussions and also as it will be visible to the entire class other students will be able to get benefit from that.

Technical Assistance — If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the OSU Computer Helpdesk online.

Tutoring — Effective fall term 2009 we went to a new Online Tutoring Service - <u>NetTutor</u> to meet the needs of Ecampus students.

NetTutor is a leading provider of online tutoring and learner support services fully staffed by experienced, trained and monitored tutors. Students connect to live tutors from any computer that has Internet access. NetTutor provides a virtual whiteboard that allows tutors and students

to work on problems in a real time environment. They also have an online writing lab where tutors critique and return essays within 24 to 48 hours.

Course Evaluation:

I will encourage that a student will be able to, anonymously, make comments, requests, or suggestions in regards to the design and implementation of the content of the course.

OSU Student Evaluation of Teaching — Course evaluation results are extremely important and are used to help me improve this course and the learning experience of future students. Results from the 19 multiple choice questions are tabulated anonymously and go directly to instructors and department heads. Student comments on the open-ended questions are compiled and confidentially forwarded to each instructor, per OSU procedures. The online Student Evaluation of Teaching form will be available toward the end of each term, and you will be sent instructions by Ecampus. You will login to "Student Online Services" to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.

Concluding Remark:

Get your data structures correct first, and the rest of the program will write itself."

—Davids Johnson

Please take the above quote seriously.