

# CSCI 200 – Data Structures: Fall 2017 TENTATIVE Meeting Schedule

WEEK 1	
TUE, Aug 29	Course introduction, SW design, ADTs, Javadoc, and pre/post conditions
WED, Aug 30	<i>Lab 1: Building and Testing ADTs</i>
THU, Aug 31	UML class diagrams, Program correctness & JUnit testing
WEEK 2	
TUE, Sep 05	Exceptions, Class hierarchies, Polymorphism, Auto-boxing and Object streams in Java
WED, Sep 06	<i>Lab 2: Hierarchies and Streams</i>
THU, Sep 07	Collections, generics and iterators: The <i>List</i> ADT
WEEK 3	
TUE, Sep 12	Collections, generics and iterators: The <i>Set</i> ADT
WED, Sep 13	<i>Lab 3: Sets</i>
THU, Sep 14	Array implementations of stacks & queues
WEEK 4	
TUE, Sep 19	Linked implementations of stacks & queues
WED, Sep 20	<i>Lab 4: Infix to Postfix</i>
THU, Sep 21	EXAM 1
WEEK 5	
TUE, Sep 26	Recursion
WED, Sep 27	<i>Lab 5a: Implementing Linked Stacks &amp; Queues</i> <i>Lab 5b: A Bank Simulation</i>
THU, Sep 28	Recursion & Backtracking
WEEK 6	
TUE, Oct 03	Backtracking
WED, Oct 04	<i>Lab 6: The N-Queens Problem</i>
THU, Oct 05	Recursive list implementations
WEEK 7	
TUE, Oct 10	Recursive list implementations & Varieties of lists
WED, Oct 11	<i>Lab 7: Implementing Linked Indexed Lists</i>
THU, Oct 12	Binary trees & Binary search trees (BSTs)
WEEK 8	
TUE, Oct 17	FREE DAY – NO CLASSES HELD
WED, Oct 18	<i>Lab 8: Handling Customers by Priority</i>
THU, Oct 19	EXAM 2
WEEK 9	
TUE, Oct 24	BSTs
WED, Oct 25	<i>Lab 9: Implementing and Using Binary Search Trees</i>
THU, Oct 26	Balanced binary trees & Heaps
WEEK 10	
TUE, Oct 31	Heap implementation of priority queues Start Big-O notation & Program Efficiency
WED, Nov 01	<i>Lab 10: Implementing and Using Heap-Based Priority Queues</i>
THU, Nov 02	More on Big-O notation & Program Efficiency Array-based BST in class exercise

<b>WEEK 11</b>	
<b>TUE, Nov 07</b>	Maps, Associative Memory, and Hash tables
<b>WED, Nov 08</b>	<i>Lab 11: Implementing and Using Maps</i>
<b>THU, Nov 09</b>	Maps, Associative Memory, and Hash tables
<b>WEEK 12</b>	
<b>TUE, Nov 14</b>	Graphs and Applications of graphs
<b>WED, Nov 15</b>	<i>Lab 12: Project lab</i>
<b>THU, Nov 16</b>	Graphs and Applications of graphs
<b>WEEK 13</b>	
<b>TUE, Nov 21</b>	<b>EXAM 3</b>
<b>WED, Nov 22</b>	<b>THANKS GIVING --- NO CLASSES HELD</b>
<b>THU, Nov 23</b>	<b>THANKS GIVING --- NO CLASSES HELD</b>
<b>WEEK 14</b>	
<b>TUE, Nov 28</b>	Graphs and Applications of graphs
<b>WED, Nov 29</b>	<i>Lab 13: Project lab continued</i>
<b>THU, Nov 30</b>	Sorting
<b>WEEK 15</b>	
<b>TUE, Dec 05</b>	Sorting
<b>WED, Nov 06</b>	<i>Lab 14: Project demos during lab</i>
<b>THU, Dec 07</b>	Sorting
<b>WEEK 16</b>	
<b>TUE, Dec 12</b>	Final notes, class surveys
<b>WED, Dec 13</b>	<i>Study day</i>
<b>FRI, Dec 15</b>	<b>2<sup>nd</sup> Day of EXAMS (Comprehensive) Final Exam 10:30am–12:30pm in P. Engel 238</b>