

Course Calendar

| Date | Topic | Before Class | Class | Due |
|------|---------------------------------|---|--|-------------------------------|
| 8/23 | What is 201 & computer science? | videoA (after class) | woto1 , woto2 , notes | |
| 8/25 | Java, Classes, Objects | videoB , videoC | | |
| 8/27 | APTs, Project P0 | book reading | | Discussion 1 |
| 8/30 | Arrays, Loops | | | |
| 9/1 | Arrays and ArrayLists | | | APT 1 |
| 9/3 | Project P0&P1, APTs | | | Discussion 2 |
| 9/6 | Classes, Static | | | P0 Person |
| 9/8 | Collections, Sets, Interfaces | | | APT 2 DM 1 |
| 9/10 | APTs, Problem Solving | | | Discussion 3 |
| 9/13 | APIs, Hashing, Sets | | | P1 NBody |
| 9/15 | HashSet, HashMap | | | APT 3 |
| 9/17 | Set APTs | | | Discussion 4 |
| 9/20 | Performance, Big-Oh | | | rDM 1 P2 Markov 1 |
| 9/22 | Big-Oh, Analysis | | | APT 4 DM 2 |
| 9/24 | APTs, Problem Solving | | | Discussion 5 |
| 9/27 | Linked Lists/Interfaces | | | P3 Markov 2 |
| 9/29 | Linked Lists/Nodes | | | APT 5 |
| 10/1 | Linked lists, APT & P4 | | | Discussion 6 |

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| 10/4 | <i>Fall Break</i> | | | |
| 10/6 | Linked Lists/Review | | | rDM 2 DM 3 |
| 10/8 | APT Quiz Practice | | | Discussion 7 |
| 10/11 | Recursion: Structure | | | P4 LinkStrand |
| 10/13 | Comparable, Sorting, Searching | | | APT Quiz 1 |
| 10/15 | Linked APTs | | | Discussion 8 |
| 10/18 | Stacks, Queues, Priority Queues | | | rDM 3 |
| 10/20 | Priority Queues | | | APT 6 DM 4 |
| 10/22 | Sorting APTs | | | Discussion 9 |
| 10/25 | Backtracking, DFS, BFS | | | P5 AutoComp |
| 10/27 | Trees, Union Find | | | APT 7 |
| 10/29 | Tree APTs | | | Discussion 10 |
| 11/1 | Binary Search Trees | | | rDM 4 |
| 11/3 | Trees: iteration Recursion | | | APT 8 DM 5 |
| 11/5 | Tree APTs | | | Discussion 11 |
| 11/8 | Greedy Algorithms | | | P6 Percolate |
| 11/10 | Huffman Compression | | | APT 9 |
| 11/12 | APT Quiz Practice | | | Discussion 12 |

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| 11/15 | Graphs | | | rDM 5 |
| 11/17 | Graphs, Bacon, Algorithms | | | DM 6 APT Quiz 2 |
| 11/19 | Huff, Review, Extra APTs | | | Discussion 13 |
| 11/22 | Graph APTs | | | P7 Huffman |
| 11/24 | Thanksgiving Break | | | |
| 11/26 | | | | |
| 11/29 | Limits of Computing | | | rDM 6 P8 Create |
| 12/1 | Create Review, Celebrate LD201 | | | APT 10 |
| 12/3 | One hour, comprehensive exam | | | |

Helper Hours

Information about the schedule of helper hours is coming soon. We will have both in person and via zoom helper hours Sunday-Thursday.

Duke Resources

The Academic Resource Center (ARC) offers free services to all students during their undergraduate careers at Duke. Services include Learning Consultations, Peer Tutoring, Learning Communities, ADHD/LD Coaching, Outreach Workshops, GRE/MCAT Prep, Study Connect, and more. Because learning is a process unique to every individual, we work with each student to discover and develop their own academic strategy for success at Duke. Contact the ARC to schedule an appointment. Undergraduates in any year, studying any discipline can benefit! arc.duke.edu • theARC@duke.edu • 919-684-5917, 211 Academic Advising Center Building, East Campus – behind Marketplace.

For more information about the services provided by Duke offices, see their individual websites: [Academic Resource Center](#), [the Testing Center](#), [Academic Guides](#), [Academic Advising Center](#), [Karsh Office of Undergraduate Financial Support](#), [Career Center](#), [Duke LIFE](#), and the [Global Education Office](#).

Additional resources for students: [Duke United](#) – University information on campus reopening, [Keep Learning](#) – Hub for student-focused information and [FAQs](#)