

Contact Information

Instructor: Dr Nada Attar

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* Classroom Protocols

- The lectures for this course will be conducted in person. Regular class attendance is highly recommended and strongly encouraged.
 - This section includes one online office hour and one in-person office hour each week. During online office hours, please ensure your camera is turned on, if possible.
 - Do not publicly share or upload any course materials, such as exam questions, lecture notes, or solutions, without the instructor's consent. Sharing course materials without permission is strict
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02/05/2025 1:30 PM - 2:45 PM	Solving recurrences	
02/10/2025 1:30 PM - 2:45 PM	Master Theorem	
02/12/2025 1:30 PM - 2:45 PM	Heapsort, Priority Queues	
02/17/2025 1:30 PM - 2:45 PM	Sorting in linear time	
02/19/2025 1:30 PM - 2:45 PM	Counting sort, Radix Sort	
02/24/2025 1:30 PM - 2:45 PM		
02/26/2025 1:30 PM - 2:45 PM	Hash Tables	
03/03/2025 1:30 PM - 2:45 PM	Quicksort	
03/05/2025 1:30 PM - 2:45 PM	Binary Search Trees	

03/10/2025 1:30 PM - 2:45 PM	Red-Black trees	
03/12/2025 1:30 PM - 2:45 PM	2-3 Trees	
03/17/2025 1:30 PM - 2:45 PM	Dynamic Programming	
03/19/2025 1:30 PM - 2:45 PM	Dynamic Programming	
03/24/2025 1:30 PM - 2:45 PM	Elementary Graph Algorithms, Undirected graph	
03/26/2025 1:30 PM - 2:45 PM	BFS, DFS	
03/31/2025 1:30 PM - 2:45 PM	Spring Break	
04/02/2025 1:30 PM - 2:45 PM	Spring Break	
04/07/2025 1:30 PM - 2:45 PM	BFS, DFS	

04/09/2025 1:30 PM - 2:45 PM				
04/14/2025 1:30 PM - 2:45 PM	Directed graph, Topological Sort			
04/16/2025 1:30 PM - 2:45 PM	Strongly connected components			
04/21/2025 1:30 PM - 2:45 PM	Review			
04/23/2025 1:30 PM - 2:45 PM	Review			
04/28/2025 1:30 PM - 2:45 PM	Minimum Spanning Tree – Prim's and Kruskal's Algorithm			
05/05/2025 1:30 PM - 2:45 PM	Single Source Shortest Paths: Dijkstra's Algorithm			
05/07/2025 1:30 PM - 2:45 PM	NP-complete problems			
		<table border="1"> <tr> <td>Monday, May 19</td> <td>1:00-3:00 PM</td> </tr> </table>	Monday, May 19	1:00-3:00 PM
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