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GRADUATE ▾

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2021 – 2022 Graduate Course Offerings

Below is a list of graduate courses currently scheduled to be offered starting in Fall 2020. Please refer to the [UCR General Catalog](#) for course descriptions. Course offerings from previous years can be viewed in our [Archive](#).

Only approved [undergraduate technical elective](#) courses are applicable toward your degree.

Note: Course offerings, available sections and professor assignments are subject to change without notice.

Course	Course Title	Fall 2021	Winter 2022	Spring 2022
CS 201	Compiler Construction	Rajiv Gupta	Zhijia Zhao	
CS 202	Advanced Operating Systems	Hyoseung Kim	Hung-Wei Tseng	Hyoseung Kim
CS 203	Advanced Computer Architecture	Hung-Wei Tseng		Nael Abu-Ghazaleh
CS 204	Advanced Computer Networks			Jiasi Chen
CS 205	Artificial Intelligence	Paea LePendu		Eamonn Keogh
CS 206	Advanced Software Testing and Analysis			Manu Sridharan

CS 208	Cloud Computing and Cloud Networking		KK Ramakrishnan	
CS 210	Scientific Computing	Tamar Shinar		Sofia Sakellaridi
CS 211	High Performance Computing	Zizhong Chen		
CS 213	Multiprocessor Architecture and Programming	Elaheh Sadredini		
CS 214	Parallel algorithms		Yihan Sun	
CS 215	Theory of Computation		Silas Richelson	
EE/CS 217	GPU Architecture and Parallel Programming	Daniel Wong		
CS 218	Design and Analysis of Algorithms	Stefano Lonardi	Amey Bhangale	Yihan Sun
CS 219	Advanced Algorithms			Yan Gu
CS 224	Foundations of Machine Learning	Christian Shelton		
CS 225	Spatial Computing	Amr Magdy		
CS 226	Big-Data Management	Ahmed Eldawy		
CS 227	Probabilistic Models for Artificial Intelligence		Christian Shelton	
CS/EE 228	Deep Learning			Samet Oymak (ECE faculty)
CS 230	Computer Graphics		Craig Schroeder	
CS 235	Data Mining Techniques	Vagelis Papalexakis		Vagelis Papalexakis
CS 236	Database Management Systems	Vassilis Tsotras		Mariam Salloum
CS 238	Algorithmic Techniques in Computational Biology		Tao Jiang	

CS 240	Network Routing	Michalis Faloutsos		
CS 242	Information Retrieval and Web Search		Vagelis Hristidis	
CS 246	Software Verification		Mohsen Lesani	
CS 247	Principles of Distributed Computing			Mohsen Lesani
CS/EE 248	Optimization of Machine Learning	Samet Oymak (ECE faculty)		
CS 250	Software Security			Chengyu Song
CS 251/EE 255	Real-Time Embedded Systems		Hyoseung Kim (ECE faculty)	
CS 253	Distributed Systems	Srikanth Krishnamurthy		
CS 254	Network Security			Zhiyun Qian
CS 255	Computer Security		Chengyu Song	
CS 287	Colloquium in Computer Science	Tamar Shinar	Tamar Shinar	Tamar Shinar
CS 302	Teaching Practicum	Mariam Salloum	Mariam Salloum	Mariam Salloum



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