Course Listings

2023-2024 Graduate Course Offerings

Below is a list of graduate courses currently scheduled to be offered starting in Fall 2022. 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 to your degree.
> **Note:** Course offerings, available sections and professor assignments are subject to change without notice.

Course	Course Title	Fall 2023	Winter 2024	Spring 2024
CS 201	Compiler Construction	Rajiv Gupta	Zhijia Zhao	
CS 202	Advanced Operating Systems	Cong Liu (ECE Faculty)	Hyoseung Kim (ECE Faculty)	Cong Liu (ECE Faculty)
CS 203	Advanced Computer Architecture	Hung-Wei Tseng (ECE Faculty)		Hung-Wei Tseng (ECE Faculty)
CS 204	Advanced Computer Networks	Zhaowei Tan		
CS 205	Artificial Intelligence	Paea LePendu	Paea LePendu	Eamonn Keogh
CS 206	Advanced Software Testing and Analysis		Manu Sridharan	
CS 210	Scientific Computing	Craig Schroeder		
CS 211	High Performance Computing	Zizhong Chen		
CS 213	Multiprocessor Architecture and Programming			
CS 214	Parallel Algorithms	Yihan Sun		
CS 215	Theory of Computation		Marek Chrobak	
CS 216	Cryptography			
CS/EE 217	GPU Architecture and Parallel Programming	Daniel Wong (ECE Faculty)		
CS 218	Design and Analysis of Algorithms	Amey Bhangale	Yan Gu	Yihan Sun
CS 219	Advanced Algorithms	Yan Gu		
CS 220	Synthesis of Digital Systems	Philip Brisk		
CS 222	Natural Language Processing		Yue Dong	
CS 224	Foundations of Machine Learning		Greg Ver Steeg	
CS 225	Spatial Computing	Amr Magdy		
CS 226	Big-Data Management	Ahmed Eldawy		
CS/EE 228	Deep Learning	Yinglun Zhu (ECE faculty)		
CS 229	Machine Learning			Greg Ver Steeg
CS 234	Computational Methods for Biomolecular Data			Stefano Lonardi
CS 235	Data Mining Techniques	Mariam Salloum		Vagelis Papalexakis

Course	Title			
CS 236	Database Management Systems	Vassilis Tsotras	Amr Magdy	
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	Advanced Verification Techniques in Software Engineering			
CS 247	Principles of Distributed Computing	Mohsen Lesani		
CS 250	Software Security			Heng Yin
CS 251/EE 255	Real-Time Embedded Systems		Hyoseung Kim (ECE faculty)	
CS 253	Distributed Systems			
CS 254	Network Security		Emiliano De Cristofaro	
CS 255	Computer Security	Chengyu Song		
CS 258/EE 227	Introduction to Reinforcement Learning			Nanpeng Yu (ECE)
CS 260	Seminar in Computer Science		Ioannis Karamouzas	Emiliano De Cristofaro
CS/EE 277	Data-Centric Computer Architecture		Hung-Wei Tseng (ECE Faculty)	
CS 287	Colloquium in Computer Science	Ahmed Eldawy	Ahmed Eldawy	Ahmed Eldawy
CS 302	Teaching Practicum	Mariam Salloum	Mariam Salloum	Mariam Salloum