Course Listings

2024-2025 Graduate Course Offerings

Below is a list of graduate courses currently scheduled to be offered starting in Fall 2024. 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 2024	Winter 2025	Spring 2025
CS 201	Compiler Construction	Rajiv Gupta	Zhijia Zhao	
CS 202	Advanced Operating Systems	Heng Yin	Trent Jaeger	Cong Liu (ECE Faculty)
CS 203	Advanced Computer Architecture	Hung-Wei Tseng (ECE Faculty)	Hung-Wei Tseng (ECE Faculty)	
CS 204	Advanced Computer Networks	K.K Ramakrishnan		
CS 205	Artificial Intelligence	Paea LePendu	Paea LePendu	Eamonn Keogh
CS 206	Advanced Software Testing and Analysis		Qian Zhang	
CS 208	Cloud Computing and Cloud Networking		K.K Ramakrishnan	
CS 210	Scientific Computing	Tamar Shinar		
CS 211	High Performance Computing	Zizhong Chen		
CS 212	Data Science Ethics		Mariam Salloum	
CS 214	Parallel Algorithms		Yihan Sun	
CS 215	Theory of Computation		Silas Richelson	
CS 216	Cryptography			Silas Richelson
CS/EE 217	GPU Architecture and Parallel Programming	Daniel Wong (ECE Faculty)		
CS 218	Design and Analysis of Algorithms	Mingxun Wang	Marek Chrobak	Yan Gu
CS 219	Advanced Algorithms		Amey Bhangale	
CS 220	Synthesis of Digital Systems			Wantong Li
CS 222	Natural Language Processing			Yue Dong
CS 224/EE 242a	Foundations of Machine Learning	Amit K. Roy-Chowdhury(ECE Faculty)	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/EE 242b	Advanced Machine Learning			Salman Asif(ECE Faculty)
CS 230	Computer Graphics		Craig Schroder	

CS 231	Computer Animation			Craig Schroder
CS 235	Data Mining Techniques	Mariam Salloum		Vagelis Papalexakis
CS 236	Database Management Systems	Chinya Ravishankar		Amr Magdy
CS 238	Algorithmic Techniques in Computational Biology			Tao Jiang
CS 242	Information Retrieval and Web Search		Vagelis Hristidis	
CS 249	Advanced Topics in Program Analysis			Manu Sridharan
CS 250	Software Security			Heng Yin
CS 251/EE 255	Real-Time Embedded Systems		Hyoseung Kim (ECE faculty)	
CS 252A/EE251A	Data Analytics and Exploration	Mariam Salloum		
CS 253	Distributed Systems		Srikanth Krishnamurthy	
CS 254	Network Security		Zhiyun Qian	
CS 255	Computer Security	Chengyu Song		
CS 258/EE 227	Introduction to Reinforcement Learning	Ioannis Karamouzas		
CS 260	Seminar in Computer Science	Zhaowei Tan		Trent Jaeger K.K. Ramakrishnan
CS/EE 277	Data Centric Computer Architecture			Hung-Wei Tseng
CS 287	Colloquium in Computer Science	Ahmed Eldawy	Ahmed Eldawy	Ahmed Eldawy
CS 302	Teaching Practicum	Chinya Ravishankar	Chinya Ravishankar	Chinya Ravishankar

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