

Course Listings

[View \(/graduate/course-listings\)](#)[Edit \(/node/76/edit\)](#)[Delete \(/node/76/delete\)](#)[Layout \(/node/76/layout\)](#)[Revisions \(/node/76/revisions\)](#)

2022-2023 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 \(/graduate/archive\)](#).

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

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

Course	Course Title	Fall 2022	Winter 2023	Spring 2023
CS 201 (/graduate/course-descriptions#CS201)	Compiler Construction	Rajiv Gupta	Zhijia Zhao	
CS 202 (/graduate/course-descriptions#CS202)	Advanced Operating Systems	Hyoseung Kim (ECE Faculty)	Cong Liu (ECE Faculty)	Cong Liu (ECE Faculty)
CS 203 (/graduate/course-descriptions#CS203)	Advanced Computer Architecture	Hung-Wei Tseng (ECE Faculty)		Hung-Wei Tseng (ECE Faculty)
CS 204 (/graduate/course-descriptions#CS204)	Advanced Computer Networks			Jiasi Chen
CS 205 (/graduate/course-descriptions#CS205)	Artificial Intelligence	Paea LePendu		Eamonn Keogh
CS 206 (/graduate/course-descriptions#CS206)	Advanced Software Testing and Analysis		Manu Sridharan	
CS 208 (/graduate/course-descriptions#CS208)	Cloud Computing and Cloud Networking		KK Ramakrishnan	
CS 210 (/graduate/course-descriptions#CS210)	Scientific Computing	Tamar Shinar		

Course	Course Title	Fall 2022	Winter 2023	Spring 2023
CS 211 (/graduate/course-descriptions#CS211)	High Performance Computing	Zizhong Chen		
CS 213 (/graduate/course-descriptions#CS213)	Multiprocessor Architecture and Programming	Elaheh Sadredini		
CS 214 (/graduate/course-descriptions#CS214)	Parallel algorithms		Yan Gu	
CS 215 (/graduate/course-descriptions#CS215)	Theory of Computation		Amey Bhangale	
CS 216 (/graduate/course-descriptions#CS216)	Cryptography		Silas Richelson	
EE/CS 217 (/graduate/course-descriptions#CS-EE217)	GPU Architecture and Parallel Programming	Daniel Wong (ECE Faculty)		
CS 218 (/graduate/course-descriptions#CS218)	Design and Analysis of Algorithms	Yan Gu	Marek Chrobak	Yihan Sun
CS 219 (/graduate/course-descriptions#CS219)	Advanced Algorithms			Amey Bhangale
CS 224 (/graduate/course-descriptions#CS224)	Foundations of Machine Learning		Amit K. Roy Chowdhury(ECE Faculty)	
CS 225 (/graduate/course-descriptions#CS225)	Spatial Computing	Amr Magdy		
CS 226 (/graduate/course-descriptions#CS226)	Big-Data Management	Ahmed Eldawy		
CS/EE 228 (/graduate/course-descriptions#CS-EE228)	Deep Learning			Samet Oymak (ECE faculty)
CS 229 (/graduate/course-descriptions#CS229)	Machine Learning			Greg Ver Steeg
CS 230 (/graduate/course-descriptions#CS230)	Computer Graphics		Craig Schroeder	
CS 234 (/graduate/course-descriptions#CS234)	Computational Methods for Biomolecular Data	Stefano Lonardi		
CS 235 (/graduate/course-descriptions#CS235)	Data Mining Techniques	Vagelis Papalexakis	Vagelis Papalexakis	
CS 236 (/graduate/course-descriptions#CS236)	Database Management Systems	Chinya Ravishankar		Vassilis Tsotras
CS 238 (/graduate/course-descriptions#CS238)	Algorithmic Techniques in Computational Biology			Mingxun Wang
CS 239 (/graduate/course-descriptions#CS239)	Performance Evaluation of Computer Networks	Srikanth Krishnamurthy		
CS 240 (/graduate/course-descriptions#CS240)	Network Routing	Michalis Faloutsos		
CS 242 (/graduate/course-descriptions#CS242)	Information Retrieval and Web Search		Vagelis Hristidis	
CS 247 (/graduate/course-descriptions#CS247)	Principles of Distributed Computing		Mohsen Lesani	

Course	Course Title	Fall 2022	Winter 2023	Spring 2023
CS/EE 248 (/graduate/course-descriptions#CS-EE248)	Optimization of Machine Learning		Samet Oymak (ECE faculty)	
CS 249 (/graduate/course-descriptions#CS249)	Advanced Topics in Program Analysis			Manu Sridharan
CS 250 (/graduate/course-descriptions#CS250)	Software Security			Heng Yin
CS 251/EE 255 (/graduate/course-descriptions#CS251)	Real-Time Embedded Systems		Hyoseung Kim (ECE faculty)	
CS 253 (/graduate/course-descriptions#CS253)	Distributed Systems			Chinya Ravishankar
CS 255 (/graduate/course-descriptions#CS255)	Computer Security	Chengyu Song		
CS 260 (/graduate/course-descriptions#CS260)	Seminar in Computer Science	Mingxun Wang	Yue Dong	Qian Zhang
CS/EE 277 (/graduate/course-descriptions#CS277)	Data-Centric Computer Architecture		Elaheh Sadredini	
CS 287 (/graduate/course-descriptions#CS287)	Colloquium in Computer Science	Tamar Shinar	Tamar Shinar	Tamar Shinar
CS 302 (/graduate/course-descriptions#CS302)	Teaching Practicum	Chinya Ravishankar	Chinya Ravishankar	Chinya Ravishankar

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Winston Chung Hall, Room 351
MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING
Riverside, CA 92521
Tel: (951) 827-5639
Email: contact@cs.ucr.edu

 FIND US



RELATED LINKS

[Department Intranet](#)

[Twitter](#)

[Facebook](#)