

2024-2025 Undergraduate Course Offerings

Below is a list of undergraduate courses currently scheduled to be offered starting in Fall 2024. Please refer to the [UCR General Catalog](#) for the course descriptions. Course offerings from previous years can be viewed in our [Archive](#).

Note: Course offerings, available sections, and professor assignments are subject to change without notice. Additional courses may be added, please check again later to see if there are any other courses you would like to take.

Patrick Miller

Course	Course Title	Fall 2024	Winter 2025	Spring 2025
ENGR 001	Professional Development and Mentoring	Paea LePendu		
ENGR 101	Professional Development and Mentoring		Allan Knight	
ENGR 180	Technical Communications	Burton/Graham	Burton/Graham	Burton/Graham
CS 005	Introduction to Computer Programming			
CS 006	Effective Use of the World Wide Web	Ryan Rusich	Ryan Rusich	Ryan Rusich
CS 008	Introduction to Computing	Toby Gustafson	Toby Gustafson	Toby Gustafson
CS 009A	Data-oriented Introduction to Computing I (Python)	Westin Montano	Westin Montano	Saul Gonzalez
CS 009B	Data Oriented Introduction to Computing II (Python)	Neftali W. Medina	Neftali W. Medina	Saul Gonzalez
CS 009C	C++ for Programmers (2 units)	Westin Montano	Westin Montano	Alireza Abdoli
CS 010A	Intro to Computer Science for Science, Mathematics, & Engineering I (C++)	Kelly Downey Saul Gonzalez	Kelly Downey Saul Gonzalez	Kelly Downey Westin Montano
CS 010B	Intro to Computer Science for Science, Mathematics, & Engineering II (C++)	Kris Miller	Kris Miller Saul Gonzalez Md Abdullah Al Mamun	Kris Miller
CS 010C	Introduction to Data Structures and Algorithms	Patrick Miller	Patrick Miller	Patrick Miller
CS 061	Machine Organization and Assembly Language Programming	Allan Knight Kris Miller	Kris Miller	Ashley Pang Kris Miller
CS 100	Software Construction	Reem Ali	Reem Ali	Reem Ali
CS 105	Data Analysis Methods	Elena Strzheletska	Elena Strzheletska	Elena Strzheletska
CS/STAT 108	Data Science Ethics		Mariam Salloum	
CS 110	Web Development			

CS 111	Discrete Structures	Elena Strzheletska	Elena Strzheletska	Marek Chrobak Elena Strzheletska
CS 119L	Laboratory in Problem Solving and Programming (1 unit)	Yan Gu	Yan Gu	
CS/EE 120A	Logic Design	Jia Chen (ECE Faculty)	Jia Chen (ECE Faculty)	Jia Chen (ECE Faculty)
CS/EE 120B	Introduction to Embedded Systems	Allan Knight		Philip Brisk
CS 130	Computer Graphics	Craig Schroder	Tamar Shinar	
CS 131	Edge Computing		Hang Qiu (ECE faculty)	Neftali W. Medina
CS 135	Virtual/Augmented Reality			Hang Qiu (ECE faculty)
CS 141	Intermediate Data Structures and Algorithms	Yan Gu Yihan Sun	Mingxun Wang	Amey Bhangale
CS 142	Algorithm Engineering		Patrick Miller	Yihan Sun
CS 144	Algorithm for BioInformatics			Stefano Lonardi
CS 145	Combinatorial Optimization Algorithms	Silas Richelson		
CS/EE 147	GPU Programming			Daniel Wong (ECE faculty)
CS 150	Automata and Formal Languages	Tao Jiang	Paea LePendu	Tao Jiang
CS 152	Compiler Design	Zhijia Zhao	Neftali W. Medina	Neftali W. Medina
CS 153	Design of Operating Systems	Nael Abu-Ghazaleh	Heng Yin	Chengyu Song
CS 160	Concurrent Programming and Parallel Systems	Patrick Miller		
CS 161	Design and Architecture of Computer Systems	Zizhong Chen	Allan Knight	Allan Knight
CS 161L	Laboratory in Design & Architecture of Computer Systems		Allan Knight	Allan Knight
CS 163	Privacy Technologies			Emiliano De Cristofaro
CS 164	Computer Networks	Srikanth Krishnamurthy		
CS 165	Computer Security	Trent Jaeger	Chengyu Song	Zhiyun Qian
CS 166	Database Management Systems	Vassilis Tsotras	Mariam Salloum	Chinya Ravishankar
CS 167	Introduction to Big Data Management		Ahmed Eldawy	
CS/EE 168	Introduction to Very Large Scale Integration (VLSI) Design	Sheldon Tan(ECE Faculty)		
CS 169	Mobile Wireless Networks		Zhaowei Tan	
CS 170	Introduction to Artificial Intelligence	Neftali W. Medina	Eamonn Keogh	Ioannis Karamouzas Elena Strzheletska

CS 171/EE 142	Introduction to Machine Learning and Data Mining	Salman Asif (ECE Faculty)	Christian Shelton	Greg Ver Steeg
CS 172	Introduction to Information Retrieval			Vagelis Hristidis
CS 173	Introduction to NLP	Yue Dong	Yue Dong	
CS 175	Entrepreneurship in Computing	Michalis Faloutsos		
CS 178A	Project Sequence in CSE	Michalis Faloutsos		
CS 178B	Project Sequence in CSE		Michalis Faloutsos	
CS 179F	Project in CS: Operating Systems	Zhiyun Qian	Emiliano De Cristofaro	
CS 179G	Project in CS: Database Systems			Amr Magdy
CS 179I	Project in Computer Science: Networks		K.K Ramakrishnan	Zhaowei Tan
CS 179J	Project in CS: Computer Architecture and Embedded Systems	K.K. Ramakrishnan	Zhaowei Tan	
CS 179M	Project in CS: Artificial Intelligence	Eamonn Keogh		
CS 179N	Project in CS: Graphics and Electronic Games			Tamar Shinar
CS 180	Introduction to Software Engineering		Qian Zhang	Manu Sridharan
CS 181	Principles of Programming Languages		Manu Sridharan	
CS 182	Software Testing and Verification	Qian Zhang		
CS 183	UNIX System Administration			Alireza Abdoli
CS 189	Apprentice Tutoring (1 unit)	Shirin Shirazi		

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