2023-2024 Undergraduate Course Offerings

Below is a list of undergraduate courses currently scheduled to be offered starting in Fall 2023. 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.

Course	Course Title	Fall 2023	Winter 2024	Spring 2024
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	Abbas Mazloumi	Abbas Mazloumi	Abbas Mazloumi
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)	Harini Venkatesan Westin Montano	Neftali W. Medina	Kris Miller
CS 009B	Data Oriented Introduction to Computing II (Python)	Neftali W. Medina	Westin Montano	Saul Gonzalez
CS 009C	C++ for Programmers (2 units)	Neftali W. Medina	Westin Montano	Saul Gonzalez
CS 010A	Intro to Computer Science for Science, Mathematics, & Engineering I (C++)	Kelly Downey Kris Miller Westin Montano Laila Abdelhafeez	Kelly Downe Frank Vahid	Kelly Downey Westin Montano
CS 010B	Intro to Computer Science for Science, Mathematics, & Engineering II (C++)	Kris Miller	Kris Miller Westin Montano Patrick Miller	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	Kelly Downey Kris Miller	Allan Knight
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		Analisa Flores (STAT faculty)	

Course	Title			
CS 110	Web Development			Westin Montaro
CS 111	Discrete Structures	Miguel Gutierrez Yugarshi Shashwat	Elena Strzheletska	Elena Strzheletska
CS 119L	Laboratory in Problem Solving and Programming (1 unit)	Yan Gu	Yan Gu	Yan Gu
CS/EE 120A	Logic Design		Jia Chen (ECE Faculty)	Jia Chen (ECE Faculty)
CS/EE 120B	Introduction to Embedded Systems	Frank Vahid		Philip Brisk
CS 130	Computer Graphics	Jason Goulding	Craig Schroeder	
CS 131	Edge Computing		Hang Qiu (ECE faculty)	Neftali W. Medina
CS 141	Intermediate Data Structures and Algorithms	Elena Strzheletska	Mingxun Wang Silas Richelson	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	Chengyu Song	Heng Yin	Nael Abu-Ghazaleh
CS 160	Concurrent Programming and Parallel Systems	Zizhong Chen		
CS 161	Design and Architecture of Computer Systems	Elaheh Sadredini	Elaheh Sadredini	Zizhong Chen
CS 161L	Laboratory in Design & Architecture of Computer Systems		Allan Knight	Allan Knight
CS 164	Computer Networks	K.K. Ramakrishnan		
CS 165	Computer Security		Trent Jaeger	Zhiyun Qian
CS 166	Database Management Systems		Vassilis Tsotras	Vassilis Tsotras
CS 167	Introduction to Big Data Management		Ahmed Eldawy	
CS/EE 168	Introduction to Very Large Scale Integration Design	Sheldon Tan (ECE Faculty)		
CS 169	Mobile Wireless Networks		Srikanth Krishnamurthy	
CS 170	Introduction to Artificial Intelligence	Nader S. Senobari	Nader S. Senobari	Sofia Sakellaridi

CS 171/EE 142	Introduction to Machine Learning and Data Mining	Salman Asif (ECE Faculty)	Christian Shelton	Vagelis Papalexakis
CS 172	Introduction to Information Retrieval			Vagelis Hristidis
CS 173	Introduction to NLP			Yue Dong
CS 175	Entrepreneurship in Computing	Michalis Faloutsos		
CS 178A	Project Sequence in CSE	Mariam Salloum		
CS 178B	Project Sequence in CSE		Mariam Salloum	
CSE 179E	Project in Computer Science - Compilers			
CS 179F	Project in CS: Operating Systems	Emiliano De Cristofaro	Zhiyun Qian	
CS 179G	Project in CS: Database Systems	Vagelis Hristidis		Amr Magdy
CS 179I	Project in Computer Science: Networks			Zhaowei Tan
CS 179J	Project in CS: Computer Architecture and Embedded Systems		Walid Najjar	
CS 179M	Project in CS: Artificial Intelligence	Eamonn Keogh		
CS 179N	Project in CS: Graphics and Electronic Games			Craig Schroeder
CS 180	Introduction to Software Engineering		Qian Zhang	Zhijia Zhao
CS 181	Principles of Programming Languages	Manu Sridharan		
CS 182	Software Testing and Verification	Qian Zhang		