

# 2020 - 2021 Undergraduate Course Offerings

Below is a list of undergraduate courses currently scheduled to be offered starting in Fall 2020. Please refer to the [UCR General Catalog](#) for 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 2020	Winter 2021	Spring 2021
<a href="#">ENGR 001</a>	Professional Development and Mentoring	Paea LePendu		
<a href="#">ENGR 101</a>	Professional Development and Mentoring		Michalis Faloutsos	
<a href="#">ENGR 180</a>	Technical Communications	Burton/Graham	Burton/Graham	Burton/Graham
<a href="#">CS 005</a>	Introduction to Computer Programming	Yifei Ding Bashar Romanous Sandra Ruiz	Yifei Ding Bashar Romanous Sandra Ruiz	Yifei Ding Bashar Romanous Sandra Ruiz
<a href="#">CS 006</a>	Effective Use of the World Wide Web	Ryan Rusich Sandra Ruiz	Ryan Rusich Sandra Ruiz	Ryan Rusich Sandra Ruiz
<a href="#">CS 008</a>	Introduction to Computing	Toby Gustafson	Toby Gustafson	Toby Gustafson

<b>CS 009P</b>	Introduction to Python Programming with Applications	Seyedehmaryam Shahcheraghi	Mariam Salloum	Kris Miller
<b>CS 010A</b>	Intro to Computer Science for Science, Mathematics, & Engineering	Kelly Downey Kris Miller Frank Vahid	Kelly Downey Reem Ali	Kelly Downey Frank Vahid
<b>CS 010B</b>	Intro to Computer Science for Science, Mathematics, & Engineering II	Kris Miller	Kris Miller Niloofer Montazeri	Kris Miller
<b>CS 010C</b>	Introduction to Data Structures and Algorithms	Vagelis Hristidis	Amr Magdy Paea LePendu	Amr Magdy Silas Richelson Reem Ali
<b>CS 061</b>	Machine Organization and Assembly Language Programming	Allan Knight Brian Linard	Allan Knight Kelly Downey	Allan Knight Kelly Downey
<b>CS 100</b>	Software Construction	Reem Ali	Reem Ali	Reem Ali
<b>CS 105</b>	Introduction to Data Science	Elena Strzheletska	Elena Strzheletska	
<b>CS 110</b>	Web Development			Mariam Salloum
<b>CS 111</b>	Discrete Structures	Elena Strzheletska	Marek Chrobak Elena Strzheletska	Marek Chrobak Elena Strzheletska
<b>CS 120A</b>	Logic Design	Sheldon Tan (ECE faculty)	TBA (ECE Dept)	Huang-Wei Tseng (ECE faculty)
<b>CS 120B</b>	Introduction to Embedded Systems	Philip Brisk	Philip Brisk	Frank Vahid
<b>CS 122A</b>	Intermediate Embedded and Real-Time Systems	Frank Vahid		
<b>CS 130</b>	Computer Graphics	Craig Schroeder	Tamar Shinar	
<b>CS 135</b>	Virtual Reality	Jiasi Chen	Jiasi Chen	
<b>CS 141</b>	Intermediate Data Structures and Algorithms	Yan Gu Yihan Sun	Ahmed Eldawy Elena	Amey Bhangale Elena

			Strzheletska	Strzheletska
<b>CS 142</b>	Algorithm Engineering		Yan Gu	
<b>CS 144</b>	Algorithm for BioInformatics			Stefano Lonardi
<b>CS 145</b>	Combinatorial Optimization Algorithms	Silas Richelson		
<b>CS 147</b>	GPU Programming			TBA (ECE Dept)
<b>CS 150</b>	Automata and Formal Languages	Tao Jiang	Paea LePendū.	Tao Jiang
<b>CS 152</b>	Compiler Design	Zhijia Zhao	Rajiv Gupta	Rajiv Gupta
<b>CS 153</b>	Design of Operating Systems	Chengyu Song	Nael Abu-Ghazaleh	Heng Yin
<b>CS 160</b>	Concurrent Programming and Parallel Systems	Mahsen Lesani	Zizhong Chen	
<b>CS 161</b>	Design and Architecture of Computer Systems	Zizhong Chen	Walid Najjar	Elaheh Sadredini
<b>CS 161L</b>	Laboratory in Design & Architecture of Computer Systems		Allan Knight	Allan Knight
<b>CS 164</b>	Computer Networks	KK Ramakrishnan		
<b>CS 165</b>	Computer Security	Chinya Ravishankar	Zhiyun Qian	
<b>CS 166</b>	Database Management Systems		Vassilis Tsotras	Vassilis Tsotras
<b>CS 167</b>	Introduction to Big Data Management			Ahmed Eldawy
<b>CS 168</b>	Introduction to Very Large Scale Integration Design		Sheldon Tan (ECE faculty)	
<b>CS 169</b>	Mobile Wireless Networks			

<b>CS 170</b>	Introduction to Artificial Intelligence		Eamonn Keogh	Niloofar Montazeri
<b>CS171/EE142</b>	Introduction to Machine Learning and Data Mining	Christian Shelton	Vagelis Papalexakis	TBA (ECE faculty)
<b>CS 172</b>	Introduction to Information Retrieval			Mariam Salloum
<b>CS 173</b>	Introduction to NLP			Paea LePendu.
<b>CS 175</b>	Entrepreneurship in Computing			Michalis Faloutsos
<b>CS 178A</b>	Project Sequence in CSE	Mariam Salloum		
<b>CS 178B</b>	Project Sequence in CSE		Mariam Salloum	
<b>CS 179E</b>	Compilers		Mohsen Lesani	
<b>CS 179F</b>	Operating Systems	Zhiyun Qian	Heng Yin	
<b>CS 179G</b>	Database Systems	Petko Bakalov		
<b>CS 179I</b>	Networks			KK Ramakrishnan
<b>CS 179N</b>	Graphics and Electronic Games			Craig Schroeder
<b>CS 180</b>	Introduction to Software Engineering	Manu Sridharan		Zhijia Zhao
<b>CS 181</b>	Principles of Programming Languages		Manu Sridharan	
<b>CS 183</b>	UNIX System Administration	Alireza Abdoli		



Winston Chung Hall, Room 351  
Bourns College of Engineering  
Riverside, CA 92521-0429

 Twitter

 Facebook

Tel: (951) 827-5639

Fax: (951) 827-9345

Email: [contact@cs.ucr.edu](mailto:contact@cs.ucr.edu)

[UCR Library](#)

[Campus Store](#)

[Career Opportunities](#)

[Diversity](#)

[Maps and Directions](#)

[Visit UCR](#)