

## Experience UC Merced 2017 - April 3 to April 7 & April 10 to April 14

In order to not disrupt classes, we ask visitors to please refrain from using their cell phones in class, arrive 5 minutes prior to the beginning of a class, and not to leave until the completion of the class time.

### Monday

Time	Course Title	Course Description	Location	Seats Available
8:30 A.M. - 9:20 A.M.	PHYS 019 - Physics II - Bio	The physical principles of electromagnetism and thermodynamics are introduced, examined, and discussed in the context of biological applications.	COB2 110	26
9:30 A.M. - 10:20 A.M.	PHYS 008 - Introductory Physics I	Introduction to classical and contemporary physics. Intended for students with preparation in calculus and algebra. Topics include introduction to forces, kinetics, equilibria, fluids, waves, and heat. Experiments and computer exercises are integrated into the course content.	COB2 130	11
10:30 A.M. - 11:20 A.M.	MATH 23: Vector Calculus	Calculus of several variables. Topics include parametric equations and polar coordinates, algebra and geometry of vectors and matrices, partial derivatives, multiple integrals, and introduction to the theorems of Green, Gauss, and Stokes.	SSB 160	39
11:30 A.M. - 12:20 P.M.	MATH 23: Vector Calculus	Calculus of several variables. Topics include parametric equations and polar coordinates, algebra and geometry of vectors and matrices, partial derivatives, multiple integrals, and introduction to the theorems of Green, Gauss, and Stokes.	SSB 160	27

3:30 P.M. - 4:20 P.M.	CSE 21 Intro to Computing II	CSE 021 is continuation of CSE 020 for a beginning student and relies heavily on prior knowledge of CSE 020 material. Modern programming concepts such as Object-oriented Programming, methods, recursion and data manipulation will be introduced. Students are expected to solve problems using different programming paradigms.	COB 102	5
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Tuesday

Time	Course Title	Course Description	Location	Seats Available
9 A.M. - 10:15 A.M.	ENGR 120 Fluid Mechanics	Introduction to and application of the mechanics of fluids and fluid flow in natural and engineered systems.	SSB 160	22
9 A.M. - 10:15 A.M.	ECON 140 Labor Economics	Analysis of the economic forces that shape labor markets, institutions, and performance in the United States and other countries, with special attention to the determinants of labor supply and demand, human capital investment, and government policy.	COB 265	19
9 A.M. - 10:15 A.M.	ECON 150 Economic Development	Problems of underdevelopment and poverty, policy issues, and development strategy.	KL 217	21
9 A.M. - 10:15 A.M.	COGS 103 Introduction to Neural Network	Introduction to the use of neural networks in the study of cognitive phenomena. Topics include perception, attention, language, memory, and biologically realistic model neurons.	COB2 170	34

10:30 A.M. - 11:45 A.M	ENGR 45 Intro to Materials	Relationship between the structure, processing, properties, and performance of materials. The application of physical and chemical principles in the context of engineering materials: atomic bonding, crystal structure, defects, thermodynamics, and kinetics.	COB 105	28
10:30 A.M. - 11:45 A.M	ENGR 155 Engineering Economics	Microeconomic principles and methods. Time value of money, interest and equivalences, analysis of economic alternatives, depreciation, inflation and taxes, estimates of demand, cost and risk, decision theory.	COB 116	20
12 P.M. - 1:15 P.M.	COGS 001 Intro to Cognitive Science	An introduction to the interdisciplinary field of cognitive science. Basic issues related to cognition, including perception, memory, language, learning, problem solving, spatial cognition, attention, mental imagery, consciousness, brain damage, development, and artificial intelligence, are considered from the perspectives of psychology, philosophy, computer science, and neuroscience.	COB 102	116
12 P.M. - 1:15 P.M.	COGS 151 Speech Processing	Focuses on methods for recording speech and other vocal signals, for processing and modifying such recordings, and for synthesizing artificial speech. Necessary background in speech science is provided. In addition to class discussion and short, hands-on exercises, each student develops, executes, and presents a hands-on term project.	SSM 154	7
1:30 P.M. - 2:45 P.M.	PHYS 09H - Honors Physics II	A mathematically intense introduction to classical electromagnetism for students who are motivated to learn physics at an advanced level. Utilizing calculus, topics include electrostatics, magnetism, AC and DC circuits, electromagnetism, and optics. Advanced coursework prepares students for advanced study in physical science and engineering courses.	COB2 264	7
1:30 P.M. - 2:45 P.M.	PH 105 Intro to US Health Care	Overview of the US Health Care system. Topics include development and organization of US health system, challenges in California and US, how providers and funders work together, current problems, previous attempts to improve coverage and access to health care, and health care in other countries compared to the US.	COB 116	35

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