

10/7/2015

FREQUENCY OF COMPUTER ENGINEERING COURSE OFFERINGS

✓ = semester indicated

OY = odd years

EY = even years

* = Co-listed with other degree programs course(s)

	SPRING	SUMMER	FALL
Comp Eng 1200 / Introduction to Digital Electronics (new course as of fall 2015 / This course will never be taught by Comp Eng. This course provides college credit to high school students that takes the Digital Electronics class from Project Lead the Way. This course will not count toward a degree in Computer Engineering. However, Dr. Stanley plans to offer an Advancement Exam for this course. If the student has taken Digital Electronics in Project Lead the Way and passes the Advancement Exam, Dr. Stanley will waive our Comp Eng 2210 Intro to Computer Engineering.)			
Comp Eng 2210 / Introduction to Digital Logic (new course title fall 2015) / (old title / Introduction to Computer Engineering)	✓	✓	✓
Comp Eng 2211 / Computer Engineering Laboratory	✓	✓	✓
Comp Eng 3110 / Computer Organization & Design	✓		✓
Comp Eng 3150 / Introduction to Microcontrollers & Embedded System Design (new course title fall 2015) / (old title / Digital Systems Design)	✓	✓	✓
Comp Eng 3151/ Digital Engineering Laboratory II	✓	✓	✓
Comp Eng 4001 / Special Topics – test a new course (undergraduate/graduate)	Demand	Demand	Demand
Comp Eng 4096 / Computer Engineering Senior Project I	✓		✓
Comp Eng 4097 / Computer Engineering Senior Project II	✓		✓
Comp Eng 5070 / Teaching Engineering *co-listed with Eng Mgt 5414, Env Eng 5070, Civ Eng 5070, & Elec Eng 5070 (Engineering Management teaches this course with their instructor.)		Demand	
Comp Eng 5110 / Principles of Computer Architecture	✓		
Comp Eng 5120 / Digital Computer Design			✓
Comp Eng 5130 / Advanced Microcomputer Systems Design	Demand		Demand
Comp Eng 5151 / Digital Systems Design Laboratory (new course number starting fall 2015) (old course number Comp Eng 4151)	✓		
Comp Eng 5160 / Embedded Processor System Design (new course number starting fall 2015) (old course number Comp Eng 4160)			✓
Comp Eng 5170 / Real-Time Systems	Demand		
Comp Eng 5210 / Intro to Vlsi Design			✓
Comp Eng 5220 / Digital System Modeling	✓		
Comp Eng 5230 / Optical Computing *co-listed with Elec Eng 5250			✓
Comp Eng 5310 / Computational Intelligence *co-listed with Elec Eng 5310			✓
Comp Eng 5410 / Introduction to Computer Engineering Communications Networks (new course title fall 2015) / (old course name Digital Network Design)	✓		✓
Comp Eng 5420 / Introduction to Network Security (new course title fall 2015) / (old course name Trustworthy, Survivable Computer Networks)			✓
Comp Eng 5430 / Wireless Networks *co-listed with Elec Eng 5430/Sys Eng 5323			✓
Comp Eng 5450 / Digital Image Processing *co-listed with Elec Eng 5450			✓
Comp Eng 5460 / Machine Vision *co-listed with Elec Eng 5460	✓		
Comp Eng 5510 / Fault-Tolerant Digital Systems			✓
Comp Eng 5610 / Real-Time Digital Signal Processing			✓
Comp Eng 5620 / Signal Intergrity in High-Speed Digital & Mixed Signal Design *co-listed with Elec Eng 5620	✓		

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Comp Eng 5803 / Mathematical Logic I *co-listed with Comp Sci 5203, Philos 4354, Math 5154 (Math teaches this course with their instructor and only in the summer.)		Demand	
Comp Eng 5820 / Mechantronics *co-listed with Aero Eng 5478, Elec Eng 5870, Mech Eng 5478 (Mechanical Engr teaches this course with their instructor.)	✓		
Comp Eng 5880 / Introduction to Robotics * co-listed with Comp Sci 5803, Elec Eng 5880 (Computer Science decides who will teach course and if course will be taught.)			✓
Comp Eng 6001 / Special Topics - test a new course (graduate)	Demand	Demand	Demand
Comp Eng 6110 / Advanced Computer Architecture I	Demand		
Comp Eng 6120 / Advanced Computer Architecture II			Demand
Comp Eng 6210 / Digital Logic			✓
Comp Eng 6220 / Design Automation of VLSI Systems (new title as of fall 12) (old name Topics in VLSI Systems)	OY		
Comp Eng 6230 / Advanced VLSI Design	✓		
Comp Eng 6302 / Advanced Topics in Data Mining (new name SP 2013) (old name was Data Mining & Knowledge Discovery) *co-listed with Sys Eng 6216, Comp Sci 6402 (Engineering Management teaches this course with their instructor.)			✓
Comp Eng 6310 / Markov Decision Process *co-listed with Mech Engr 6657, Aero Eng 6447, Eng Mgt 6410, Comp Sci 6202			OY
Comp Eng 6320 / Adaptive Dynamic Programming (new course title fall 2015) (old course title: Adaptive Critic Designs)*co-listed with Elec Eng 6360, Mech Eng 6458, Aero Eng 6458, Sys Eng 6215	OY		
Comp Eng 6330 / Clustering Algorithms co-listed with Elec Eng 6340, Comp Sci 6405, Stat 6239, Sys Eng 6214	EY		
Comp Eng 6410 / Network Centric Systems *co-listed with Sys Eng 6321 (System Engr teaches this course with their instructor.) (The course used to be team taught by Dr. Dagli.)	✓		✓
Comp Eng 6420 / Wireless Ad hoc & Sensor Networks co-listed with Elec Eng 6420, Sys Eng 6324	demand		
Comp Eng 6430 / High Speed Networks			✓
Comp Eng 6440 / Network Performance Analysis (*co-listed with Comp Sci 6602)			Demand
Comp Eng 6510 / Resilient Networks (new course title fall 2015) (old course name / Network-Centric Systems Reliability and Security *co-listed with Sys Eng 6322	✓		
Comp Eng 6810 / Philosophy of Scientific Research * co-listed with Chem Eng 6340, Civ Eng 6940, Env Eng 6940, Elec Eng 6810 (Chemical Eng teaches this course with their instructor.)			✓
Comp Eng 6880 / Advanced Topics in Robotics *co-listed with Elec Eng 6880, Comp Sci 6403 (Computer Science teaches this course with their instructor.)			✓