

	Intro to Microelectronic Theory and Applications	Fundamentals of Integrated Circuit Design	Intro to Physics of Semiconductor Devices	Fundamentals of Analog Microelectronic Techniques	Digital Integrated Circuit Design	Effective SPICE Circuit Simulation Techniques	Fundamentals of Modern Data Converter Design	Design Techniques of High Performance Data Converters	Semiconductor Devices for Integrated Circuit Design	Advanced Analog Microelectronics	Fundamentals of Analog Integrated Circuit Design Techniques	Advanced Design Techniques for Analog Integrated Circuits
	X400	X401	X402	X403	X404	X405	X406	X407	X408	X409	X410	X411
General Info												
Semester Units	1	1	1	1	2	1	1	1	2	2	2	2
Required									o	o	o	o
Elective	o	o	o	o	o	o	o	o				
Level of Difficulty	★	★	★★	★★	★★★	★★★	★★★★	★★★★★	★★★	★★★	★★★	★★★★★
Level												
Component Level	o		o			o			o			
Circuit Level	o	o		o	o	o				o	o	o
System Level							o	o				
Signal												
Analog Signal	o	o		o		o				o	o	o
Digital Signal	o				o	o						
Mixed-Signal							o	o				
Continuous-Time Signal		o		o	o	o	o	o		o	o	o
Discrete-Time Signal							o	o				
Technology												
CMOS	o			o	o	o			o		o	o
Bipolar	o		o	o	o	o			o		o	o
BiCMOS					o						o	
Nanoelectronics									o			
Career Transformation with Professional Series Certificate												
Analog IC Design Engineer			o	o					o	o	o	o
Mixed-Signal IC Designer							o	o	o	o	o	o
SoC Integration Engineer					o		o		o	o	o	o
Design Automation Engineer						o	o		o	o	o	o
RF IC Design Engineer				o				o	o	o	o	o
Accelerated Career Development												
Component/Device Engineer	o		o			o			o			
Digital IC Designer			o		o	o			o			
Technical Mgmt (Fab)	o	o	o						o			
Technical Mgmt (Fabless)		o			o	o					o	
Technical Mgmt (Vertical integratio	o	o		o	o							