Senior Checklist

Department of Electrical and Computer Engineering

B.S. in Electrical Engineering Students entering Fall 2016 - present

Last Name					Stu First Name	udents ente	ering F	all 2016 - present		Date	
Last Name										Date	
Engineering Core					-		1	Humanities and Social Sci		1	
Course					Lec. Grade	Lab Grade		Subject	Course	Grade	Units
ENGR 1 CENG 41				_	8		2	CTW 1 CTW 2		-	2
COEN 44 or 11							4	English 181		+	
COEN 12					8		5	C&I 1		~	2
MECH 121							4	C&I 2			
		T	otal	8			20	C&I 3		1	
Electrical Enginee	rina C		- tur				20	Social Science			
Course					Lec. Grade	Lab Grade	Units				
ELEN 20							2	Ethics			
ELEN 21							5	RTC 1			
ELEN 33							5	RTC 2			
ELEN 50							5	RTC 3			
ELEN 100							5	Exp. Learning Social Justice		-	
ELEN 104							5				
ELEN 110							5	Total (m	in. 41)		
ELEN 115				_			5	Mathematics and Science	L an Orada	Lab Orada	L Los Mar
Technical Election	2	- 10	otal				37	Subject	Lec. Grade	Lab Grade	Units
Technical Elective		DA	CK S		OF FORM (Nata 21		Math 11 Math 12	-		4
Course	P				Lec. Grade		Unite				4
Course	- P	+=	10	13	Lec. Grade	Lab Grade	Units	Math 14 or 21	- 13		4
	-			\vdash				AMTH 106 (or MATH 22)			4
	+							AMTH 108 (or MATH 122)		-	4
	+							PHYS 31			4
			<u> </u>					PHYS 32			5
	-	T	otal	<u> </u>				PHYS 33			5
Professional Devel	lopme							PHYS 34			5
			KS	IDE	OF FORM (N	lote 3)		CHEM 11			5
			otion			,	Units	Select one of the followir	ng and write op	tion below (N	lote 1)
		0.0	edi-Oc-					CHEM 12, BIOL 21, PHY			
											5
		T	otal	le -				Tot	al	-1.0 	53
Design Project						_		Pathway Courses			
Course					Lec. Grade	Lab Grade	Units	Pathway Title:			
ELEN 192				_		_	2		Course 1	Course 2	Course
ELEN 194							2	Courses:			
ELEN 195							2	TOTAL UNITS			
ELEN 196							1	Engineering Core			
		T	otal	_			7	ELEN Core			
Additional Elective							1	Technical Electives			
	Cou	rse				Grade	Units				-
						-		Design Project			2
						-	-	Additional Electives			
								Humanities & Social Science	9		2
						-	-	Mathematics & Science	- 400		
Courses for credit	forM	err	dee					Total (mi List any approved substitu		monto	
Courses for credit			ueg	Jiee		Grada	Unite		les for require		Unite
	Cou	rse				Grade	Units	Course		Grade	Units
						-	-			+	-
Advisor's Signatur	e					Date		Department Chair's Signat	ure		Date

Note 1: Math Science Elective may be one of the following: CHEM 12, BIOL 21, PHYS 113, PHYS 121, MATH 53, MATH 105, or MATH 123

Note 2: ELEN electives: One elective must be selected from each of the following categories:

Power (P)			
164	Introduction to Power Electronics		
182	Energy Systems Design		
183	Power Systems Analysis		
184	Power System Stability and Control		

Electronics (E)				
116	Electronic Circuits II			
127	Advanced Logic Design			
151	Semiconductor Devices			
152	Semiconductor Devices and Technology			
153	Digital Integrated Circuit Design			
156	Introduction to Nanotechnology			

RF and Communications (C)				
105	Electromagnetics II			
141	Communication Systems			
144	RF and Microwave Components			

Systems (S)			
112	Modern Network Synthesis		
118	Fundamentals of Computer Aided Circuit Simulation		
123	Mechatronics		
130	Control Systems		
133	Digital Signal Processing		
160	Chaos Theory, Metamathematics and the Limits of Knowledge		
161	Information Theory and Quantum Computing		
167	Medical Imaging Systems		

Double majors must select one elective from three of the four categories. The fourth may be selected from the following list (with approval of advisor): COEN Majors: COEN120, COEN122, COEN146 BIOE Majors: BIOE 161, BIOE 162, BIOE 168

Note 3: Professional Development

Four or more units in study abroad program that does not duplicate other coursework. Two units in ENGR 110.

Preparation for graduate study in electrical engineering with completion of two or more additional units of upper-division or graduate-level courses.

Completion of an approved minor or second major in any field of engineering or science.

Two units of Peer education experience.

Two units of undergraduate research, ELEN 199

Cooperative education experience with enrollment in ELEN 188 and ELEN 189.