B.S. in Computer Engineering Curriculum Sheet (Total Credits : 131-135)

Name:				CWID:			
PIN:							
First Semester		Term Taken	Grade	**Second Semester**		Term Taken	Grade
ECE 100 Intro to the Profession I	3			MATH 152 Calculus II	5		
MATH 151 Calculus I	5			PHYS 123 Physics I: Mechanics	4		
CHEM 122 Chemistry I w/o Lab	3			CS 116 Object-Oriented Programming II	2		
CS 115 Object-Oriented Programming I	2			Social Sciences Elective	3		
Humanities 200, 202, 204, 206, 208	3			Science Elective [1]	3		
TOTAL	**16**			**TOTAL**	**17**		
Third Semester		Term Taken	Grade	**Fourth Semester**		Term Taken	Grade
MATH 252 Intro to Differential Equations	4			MATH 251 Multivariate & Vector Calc.	4		
PHYS 221 Physics II: Electr. & Magnet.	4			PHYS 224 Physics III for Engineers	3		
ECE 211 Circuit Analysis I	3			ECE 213 Circuit Analysis II	4		
ECE 218 Digital systems	4			ECE 242 Digital Compt. & Computing	3		
CS 331 Data Structures & Algorithm	3			CS 330 Discrete Structures	3		
TOTAL	**18**			**TOTAL**	**17**		
Fifth Semester		Term Taken	Grade	**Sixth Semester**		Term Taken	Grade
ECE 311 Engineering Electronics	4			CS 450 Operating Systems	3		
CS 351 Systems Programming	3			MATH 374 Probability/Stat. for ECE	3		
MMAE 200 or 320 Statics or Thermodyn.	3			Junior CPE Elective [2]	3-4		
MATH 333 or 350 Matx. Alge. & Vars.	3			IPRO Elective I	3		
Humanities Elective (300+)	3			Social Sciences Elective (300+)	3		
TOTAL	**16**			**TOTAL**	**15-16**		
Seventh Semester		Term Taken	Grade	**Eighth Semester**		Term Taken	Grade
ECE 485 Comp. Arch. & Org. [3]	3			IPRO Elective II	3		
Computer Systems/Software Elective [4]	3-4			ECE 441 Smart and Connected Emb. Sys.[6]	4		
Professional ECE Elective [5]	3-4			ECE 429 or 446 Intro to VLSI Design	4		
Professional ECE Elective [5]	3-4			Humanities Elective (300+)	3		
Humanities or Social Sciences Elective	3			Social Sciences Elective (300+)	3		
TOTAL	**15-18**			**TOTAL**	**17**		

[1] Science elective must be BIOL 105, BIOL 114, CHEM 126 or MS 201.

[2] Junior CPE elective: Choose one of ECE 307, ECE 308, or ECE 319

[3] CS 470 may be substituted with adviser approval.

[4] Computer system/software elective: Choose one of ECE 407, ECE 408, ECE 443, ECE 449, CS 425, or CS 487

[5] Professional electives may be chosen from the 400-level ECE courses identified with a (P) in the course descriptions, and any 400-level computer science courses except CS 485. A maximum of three credit hours of Undergraduate Research (ECE 491) or Special problems (ECE 497) may be used as a professional elective with adviser approval.

[6] Major Design Experience (M) Course