EE and CENG Curriculum Map

	Credits	OUTCOMES										
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
MATHEMATICS												
Math 241 Calculus	4	3										
Math 242 Calculus II	4	3										
Math 243 Calculus III	3	3										
Math 307 Linear Algebra & Diff Equations	3	3										
EE 342 EE Prob & Stat	3	3	2	2		2			1	2	1	2
BASIC SCIENCES												
Chem 161 General Chem I	3	3										
Chem 161L General Chem I Lab	1	3	3		2							
Chem 162 General Chem II	3	3										
Phys 170 General Physics I	3	3										
Phys 170L General Physics I Lab	1	3	3		2							
Phys 272 General Physics II	3	3										
Phys 272L General Physics II Lab	1	3	3		2							
Phys 274 General Physics III	3	3										
ENGINEERING REQUIRED												
EE 160 Programming for Engrs	4		1	2	2	1		1		1		2
EE 211 Basic Circuit Analysis I	4	2	2	2				1		1		2
EE 213 Basic Circuit Analysis II	4	3	2	2				1		1		1
EE 260 Intro to Digital Design	4	1						1		1		3
EE 296 Soph Projects	1			2				2		1		2
EE 315 Signals & Systems Analysis	3	3		2		2			1	2	1	1
EE 323 Microelectronic Circuits I	3	2		3		3				2	1	3
EE 323 Microelectronic Circuits I Lab	1	2	3	2	1		2		1			3
EE 324 Physical Electronics	3	3				1				1		1
EE 371 Engineering Electromagnetics I	3	2		2		3			1	1	1	2
EE 396 Junior Projects	2	1		3		3		3		1		3
EE 495 Ethics in Electrical Engineering	1						3	1	2			
EE 496 Senior Capstone Design Project	3	1	3	3	2	3	1	3	1	3	1	3
Engineering Breadth												
GENERAL EDUCATION												
ENG 100 Composition I	3							3				
COMG 251 Principles of Eff Public.Speaking I	3							3				
Writing Intensive (W)-- 5 courses								3				
Oral Communication (O)-- 1 course								3				
Hawaiian, Asian, and Pac Issues (H) -- 1 course									1			
Global & Multicultural Perspectives	6								1		1	
Social Science	3								1			
Economics ECON 120, 130, or 131	3								1		1	

Key:
- ☐ (= 0, no emphasis)
- ░ (=1, some emphasis)
- ▓ (=2, moderate emphasis)
- ■ (=3, significant emphasis)

Relationship of Outcomes to Required Courses

COMPUTERS

Required

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
EE 205 Object-Oriented Programming (3 hrs)	1	3	3	1	3	1	2	1	2	1	3	2
EE 361 Digital Systems and Computer Design (3 hrs)	3	1	3	1	3	1	1	1	3	1	3	1
EE 361L Digital Systems & Computer Design Lab (1 hr)	3	2	4	2	4	1	4	1	3	1	4	1
EE 367 Computer Data Structures and Algorithms (3 hrs)	2	4	3	2	3	2	3	3	1	2	3	1
EE 367L Comp. Data Structures & Algorithms Lab (1 hr)	2	4	3	2	3	2	3	3	1	2	3	1
EE 468 Introduction to Operating Systems (3 hrs)	3	3	3	3	3	3	3	3	3	3	3	1

Electives

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
EE 344 Networking I (4 hrs)	3	2	4	2	3	1	2	3	4	2	4	1
EE 366 CMOS VLSI Design (3 hrs)	3	1	4	2	4	1	4	1	1	1	4	1
EE 406 Introduction to Computer and Network Security (3 hrs)	2	3	4	1	4	2	2	2	4	2	4	4
EE 449 Computer Communication Networks (3 hrs)	3	1	1	3	3	2	3	3	3	3	3	1
EE 461 Computer Architecture (3 hrs)	1	4	4	2	4	2	3	1	3	3	3	1
EE 467 Object-Oriented Software Engineering (3 hrs)	3	3	4	4	4	2	3	2	2	2	3	1
EE 469 Wireless Data Networks (3)	3	3	3	3	3	3	3	3	3	3	3	1

Key:

☐ = 1, no emphasis		▨ = 3, moderate emphasis	
▤ = 2, some emphasis		■ = 4, significant emphasis	