Course	Course Title	Prerequisites	Units
		rerequisites	Units
	First Semester (FALL)		
		=	
	est. L		l .
		sector,	4
PH15 135	Physics for Scientists and Engineers I	Mathematics /OR Blacement Category Leville	4
CS 101	Computer Science	or successful completion of de area by	4
C3 101			3
+	Oral communication	Total:	15
	Second Semester (SPRING		1
т —			3
MATH 131		MATH 130 with grade C- or better.	3
		3 · · · · · · · · · · · · · · · · · · ·	
PHYS 136	Physics for Scientists and Engineers II	MATH 130 and PHYS 135.	4
	Arts		3
1	Ethnic Studies		3
		iotai:	16
	Third Semester (FALL)		
PHIL 100	Workshop in Critical Thinking		3
CS 201	Computer Science II	CS 101 with grade C- or better.	4
ENGR 220	Statics	PHYS 135.	3
ENGR 200	Introduction to Engineering and Design		3
CHEM 110	General Chemistry for Engineering		3
		Total:	16
			10
	· · · · · · · · · · · · · · · · · · ·		•
			3
CMPE 221	Assembly Language and Logic Design	CS 100 or CS 101, both with grade C- or better.	3
	Humanities		3
MATH 215	Introduction to Linear Algebra	MATH 130.	3
MATH 230	Calculus III	MATH 131 with grade C- or better.	3
		Total:	15
	Fifth Semester (FALL)		1
ENGR 230	Electric Circuits I	PHYS 136 and MATH 215.	3
CS 301	Data Structures and Algorithms	CS 201 and CS 211.	3
CMPE 323	Digital Logic and Computer Architecture	CS 211 and CS 221, both with grade C-	4
		or better.	
	UD Arts or Humanities	Completion of GE areas A1, A2, A3 and B4.	3
INDE 330	Engineering Statistics and Probability	MATH 130.	3
1		Total:	16
	Sixth Semester (SPRING		
	Arts or Humanities		3
CWDE 344	Microprocessor Laboratory	CS 301	3
			3
			3
WATT 203	Life Science		3
	PHIL 100 CS 201 ENGR 220 CHEM 110  CS 211 CMPE 221  MATH 215 MATH 230  ENGR 230 CS 301 CMPE 323	CS 201 Computer Scientists and Engineers I  Written Communication  Written Communication  MATH 131 Calculus II  PHYS 136 Physics for Scientists and Engineers II  Arts Ethnic Studies  Third Semester (FALL)  PHIL 100 Workshop in Critical Thinking  CS 201 Computer Science II  ENGR 220 Statics  ENGR 200 Introduction to Engineering and Design  CHEM 110 General Chemistry for Engineering  Fourth Semester (SPRING  CS 211 Discrete Structures  CMPE 221 Assembly Language and Logic Design  Humanities  MATH 215 Introduction to Linear Algebra  MATH 230 Calculus III  Fifth Semester (FALL)  ENGR 230 Data Structures and Algorithms  CMPE 323 Digital Logic and Computer Architecture  UD Arts or Humanities  INDE 330 Engineering Statistics and Probability  Sixth Semester (SPRING  Arts or Humanities  CMPE 344 Microprocessor Laboratory  CMPE 330 Electric Circuits II  MATH 285 Introduction to Differential Equations	PHYS 135 Physics for Scientists and Engineers I  Mathematics/QR Placement Category I or II, or successful completion of GE area B4  CS 101 Computer Science  Oral Communication  Total:  Second Semester (SPRING)  Written Communication  MATH 131 Calculus II  MATH 130 with grade C- or better.  PHYS 136 Physics for Scientists and Engineers II  Atts  Ethnic Studies  Total:  Third Semester (FALL)  PHIL 100 Workshop in Critical Thinking  CS 201 Computer Science II  ENGR 220 Introduction to Engineering and Design  CHEM 110 General Chemistry for Engineering  Fourth Semester (SPRING)  CS 201 Assembly Language and Logic Design  CMPE 221 Assembly Language and Logic Design  MATH 130 with grade C- or better.  Humanities  MATH 230 Calculus III  MATH 130 with grade C- or better.  Total:  Fifth Semester (FALL)  Fifth Semester (FALL)  PHYS 136 and MATH 215.  CS 201 Data Structures and Algebra  MATH 131 with grade C- or better.  Total:  Fifth Semester (FALL)  ENGR 230 Electric Circuits I  CMPE 323 Digital Logic and Computer Architecture  OX 201 and CS 221, both with grade C- or better.  Total:  Sixth Semester (SPRING)  Arts or Humanities  CMPE 330 Electric Circuits I  Sixth Semester (SPRING)  Arts or Humanities  Arts or Humanities  CMPE 330 Electric Circuits II  Sixth Semester (SPRING)  Arts or Humanities  Arts or Humanities  CMPE 330 Electric Circuits II  ENGR 230.  MATH 235 Introduction to Differential Equations  MATH 331 with a grade C- or better.

Area A (9 u	EB General Breadth and Graduation Requirement Checklist
	nits): Communication in the English Language & Critical Thinking (Must earn passing grad
of C-/CR or	better)
☐ A1. COMM	100 or 104, MLL 111
A2. ENGL 1	01, 102, or 104
□ A3. PHIL 10	0
	Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
☐ B1. Physica	
☐ B2. Life Scie	
B3. Laborat	
	ative Reasoning (Must earn passing grade of C-/CR or better.)
Area C	(9 units): Arts & Humanities - Minimum of two different disciplines as designated by
	course prefix (e.g., ART, THEA, MUS)
C1. Arts	
C2. Humani	ities
	Lower-division Area C Course in Arts (C1) or Humanities (C2)
	D (6 units): Social Sciences - Minimum of two different disciplines as designated by
Alea	
_	course prefix (e.g., ANTH, ECON, POSC)
□ D1.	
□ D2.	
	Area E (3 units): Lifelong Learning and Self-Development
□ E.	
	Area F (3 units): Ethnic Studies
□ F.	
	cond Composition : Requires completion of GE A2 with a C-/CR or better. Must be
Sec	completed before attaining junior standing.
	completed before attaining junior standing.
☐ Second Cor	
	nposition University Writing Requirement
☐ Second Cor	
□ UWR	
□ UWR	University Writing Requirement  erican Institutions Requirement) - Two courses (6 units) covering three U.S. Code
□ UWR	University Writing Requirement  erican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California
□ UWR U.S. Code (Am Requirements State & Local (	University Writing Requirement  erican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California
□ UWR  U.S. Code (Am Requirements State & Local ( □ Code 1.	University Writing Requirement  erican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California
U.S. Code (Am Requirements State & Local ( Code 1.	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).
U.S. Code (Am Requirements State & Local ( Code 1.	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR)	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR)	University Writing Requirement  Lerican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  A GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning  r-division Arts OR Humanities
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C.Uppe	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Description of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning r-division Arts OR Humanities ear-division Social Sciences
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C.Uppe	University Writing Requirement  Lerican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  A GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning  r-division Arts OR Humanities
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Divisior (CR) UD-B. Uppe UD-C.Uppe UD-C.Uppe UD-D. Uppe Overlay Requi	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Description of Exequirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning redivision Arts OR Humanities er-division Social Sciences rements (9 units): Courses may be upper or lower division, and GE or major
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C.Uppe UD-D. Uppe Overlay Requi	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Def Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with er-division Science Inquiry and Quantitative Reasoning r-division Arts OR Humanities er-division Social Sciences rements (9 units): Courses may be upper or lower division, and GE or major
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C. Uppe UD-D. Uppe Diversity (D Social Justic	University Writing Requirement  University Writing Requirement  Proceedings of Us-1 (U.S. History), Us-2 (U.S. Constitution), and Us-3 (California Government).  Of GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning  r-division Arts OR Humanities  er-division Social Sciences  rements (9 units): Courses may be upper or lower division, and GE or major  Divious CS(SI)
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C.Uppe UD-D. Uppe Overlay Requi	University Writing Requirement  University Writing Requirement  Proceedings of Us-1 (U.S. History), Us-2 (U.S. Constitution), and Us-3 (California Government).  Of GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning  r-division Arts OR Humanities  er-division Social Sciences  rements (9 units): Courses may be upper or lower division, and GE or major  Divious CS(SI)
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C. Uppe UD-D. Uppe Diversity (D Social Justic	University Writing Requirement  University Writing Requirement  Proceedings of Us-1 (U.S. History), Us-2 (U.S. Constitution), and Us-3 (California Government).  Of GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with ear-division Science Inquiry and Quantitative Reasoning  r-division Arts OR Humanities  er-division Social Sciences  rements (9 units): Courses may be upper or lower division, and GE or major  Divious CS(SI)
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C. Uppe UD-D. Uppe Diversity (D Social Justic	University Writing Requirement  University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Defermine the Government of Science Inquiry and Quantitative Reasoning Tedivision Arts OR Humanities Tedivision Social Sciences Tements (9 units): Courses may be upper or lower division, and GE or major Tolivior (S.)  Elective Courses
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C. Uppe UD-D. Uppe Diversity (D Social Justic	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Description of A1, A2, A3, and B4 with extendivision Science Inquiry and Quantitative Reasoning redivision Arts OR Humanities extendivision Social Sciences rements (9 units): Courses may be upper or lower division, and GE or major  Div) to (SI) tity (S)
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C.Uppe UD-C.Uppe UD-D. Uppe Overlay Requi	University Writing Requirement  University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Derivative Service Ser
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C. Uppe UD-D. Uppe Diversity (D Social Justic Sustainabili Students shall CS 401 - Softw.	University Writing Requirement  University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Description of A1, A2, A3, and B4 with Der-division Science Inquiry and Quantitative Reasoning Der-division Arts OR Humanities Der-division Social Sciences Derements (9 units): Courses may be upper or lower division, and GE or major Divider (SI) Description Social Sciences Description Science Description Scie
U.S. Code (Am Requirements State & Local ( Code 1. Code 2. Upper Division (CR) UD-B. Uppe UD-C.Uppe UD-D. Uppe Diversity (D Social Justic Students shall CS 401 - Softw. CS 421 - Opera	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Def Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with cer-division Science Inquiry and Quantitative Reasoning r-division Arts OR Humanities er-division Social Sciences rements (9 units): Courses may be upper or lower division, and GE or major only ter (SI) tity (S)  Elective Courses seelect a minimum of 6 units from the following. 3 units must be CMPE are Engineering Units: 3 ting Systems Units: 3
U.S. Code (Am Requirements State & Local (  Gode 1.  Code 2.  Upper Division (CR)  UD-B. Uppe  UD-C.Uppe  UD-D. Uppe  Diversity (D  Social Justic  Sustainabili  Students shall  CCS 401 - Softw.  CS 421 - Opera CS 441 - Comp	University Writing Requirement  University Writing Requirement  Description Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Description Institution of A1, A2, A3, and B4 with Description Science Inquiry and Quantitative Reasoning Description Arts OR Humanities Description Arts OR Humanities Description Social Sciences Description Science Inquiry and Quantitative Reasoning Description A1, A2, A3, and B4 with Description A1, A2, A3,
U.S. Code (Am Requirements State & Local (  Gode 1.  Code 2.  Upper Division (CR)  UD-B. Uppe  UD-C.Uppe  UD-D. Uppe  Diversity (D  Social Justic  Sustainabili  Students shall  CCS 401 - Softw.  CS 421 - Opera CS 441 - Comp	University Writing Requirement  Derican Institutions Requirement) - Two courses (6 units) covering three U.S. Code of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California Government).  Def Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with er-division Science Inquiry and Quantitative Reasoning r-division Arts OR Humanities er-division Social Sciences rements (9 units): Courses may be upper or lower division, and GE or major only te (SI) tity (S)  Elective Courses seelect a minimum of 6 units from the following. 3 units must be CMPE are Engineering Units: 3 ting Systems Units: 3

Seventh Semester (FALL)					
UD Major	CMPE 492	Senior Design I	All of: CMPE 344, CMPE 323	3	
UD Major	CMPE 370	Digital Signal Processing I	CMPE 330.	3	
UD Major		Elective		3	
D1/Code 1		Social Science/US Code		3	
UD-B/Overlay		UD Science	Completion of GE areas A1, A2, A3 and	3	
			Total:	15	
		Eighth Semester (SPR	ING)		
UD Major	CMPE 493	Senior Capstone: Senior Design II	CMPE 492.	3	
UD Major	CMPE 480	VLSI Circuit Design/Layout		4	
UD Major	CMPE 421	Computer Architecture II	CS 321 and CMPE 322.	3	
D2/Code 2		Social Science/US Code		3	
UD Major		Elective		3	
UD-D/Overlay		UD Social Science	Completion of GE areas A1, A2, A3 and B4.	3	
			Total:	19	
Total Units:				127	

\*Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.