

# COMPUTER ENGINEERING

## Curriculum Guide effective Fall 2010 ~ North Dakota State University

STUDENT \_\_\_\_\_

ID # \_\_\_\_\_

ADVISOR \_\_\_\_\_

	Fall					Spring				
	Course		Crs	Grade	Gen Ed	Course		Crs	Grade	Gen Ed
Freshman (<27 crs)	CHEM 121	General Chemistry I	3		S	ECE 173	Intro to Computing	3		
	ECE 111	Intro to E & C Engr	3			ENGL 120	College Composition II	3		C
	ECE 275	Digital Systems I	3			MATH 129	Basic Linear Algebra	2		
	ENGL 110	College Composition I	3		C	MATH 166	Calculus II	4		
	MATH 165	Calculus I	4		R	PHYS 251	Univ Physics I	4		S
	UNIV 189	Skills for Success	1		F	Science Lab		1		L
			17					17		
Sophomore (27-59 crs)	EE 206	Circuit Analysis I	4			COMM 110	Fund Public Speaking	3		C
	Math 265	Calc III (w/vectors)	4			CSCI 161	Comp Science II	4		
	PHYS 252	Univ Physics II	4			ECE 311	Circuit Analysis II w/Lab	4		
	CSCI 222	Discrete Math	3			MATH 266	Intro Differential Equations	3		
	ME 221	Engineering Mech I	3			Gen Ed Elective		3		A or B
			18					17		
Junior (60 - 89 crs)	ECE 321	Electronics I w/Lab	5			ECE 341	Random Processes	3		
	ECE 343	Signals & Systems w/ Lab	4			ECE 374	Computer Organiz.	3		
	ECE 376	Embedded Sys w/Lab	4			ECE 351	Applied EM w/Lab	4		
	Gen Ed Elective		3		A or B	ECE 401	Design I (capstone)	1		
						CprE Core Elec		3		
						ENGL	Upper Level Writing*	3		C
			16					17		
Senior (90 + crs)	CSCI 474	Operating Syst Concepts	3			ECE 405	Design III (capstone)	3		
	ECE 403	Design II (capstone)	2			ENGR 402	Engr Ethics & Soc Resp	1		
	ECE/Engr Sci E		3			CprE Core Elec		3/4		
	CprE Core Elec		3			ECE 423	VLSI	3		
	Gen Ed Elective		3		A or B	Gen Ed Elective		3		A or B
	Wellness Elec		2		W					
			16					13 / 14		
						TOTAL CREDITS		131/132		

### General Education Electives

Approved courses are listed in the center section of the Registration Schedule published each semester.

Gen Ed	Course	Crs	Grade
A		3	
A		3	
B		3	
B		3	
D ■	(double-count with A or B above)		
G ●	(double-count with A or B above)		
L		1	
W		2	

### General Education Categories:

A - Humanities/Fine Arts  
 B - Social/Behavioral Sciences  
 C - Communication  
 D - Cultural Diversity ■  
 F - First-Year Experience  
 G - Global Perspectives ●  
 L - Co-requisite Lab  
 R - Quantitative Reasoning  
 S - Science & Technology  
 W - Wellness

\*Select from ENGL 320, 321, 324 or 459 to satisfy the Upper Level Writing for General Education.

First year students with a composite ACT score of >21 should register for Engl 120 unless transfer credit for Engl 120 is received. If "C" or better in Engl 120, three credits will be awarded for Engl 110 w/grade of "P"

### Transfer Students:

"T" indicates requirement satisfied with transfer credits.

Grades less than "C" in Biology, Chemistry, Computer Science, all engineering disciplines, Math, and Physics in transfer courses will not be accepted for credit.

### All Students:

Students are required to attain a grade of "C" or better in ECE 111, 173, 275, EE 206, & all required math classes

CprE Core classes: ECE 373, ECE 375, ECE 443, ECE 470