

COMPUTER ENGINEERING

Curriculum Guide effective Fall 2012 ~ 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 ECE	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		0	1	0
		17				17				
Sophomore (27-59 crs)	EE 206	Circuit Analysis I/lab	4			COMM 110	Fund Public Speaking	3		C
	MATH 265	Calculus 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	0	3	0	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 Organization	3		
	ECE 376	Embedded Systems w/Lab	4			ECE 351	Applied EM w/Lab	4		
	Gen Ed Elective	0	3	0	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 Sys 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		A or B
	CprE Core Elec		3			ECE 423	VLSI	3		A or B
	Gen Ed Elective ^y	0	3	0	A or B	Gen Ed Elective	0	3	=S11	
	Wellness Elec	0	2	0	W					
		16				13				
TOTAL CREDITS							131			

General Education Electives			
<i>Approved courses listed in the registration schedule centerfold.</i>			
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

Transfer Students: "T" indicates requirement satisfied with transfer credits. Transfer courses with grades less than "C" are not accepted in biology, chemistry, computer science, any engineering class, mathematics or physics.

All students: No grades less than a C accepted in ECE 173, ECE 275, EE 206 & all required Math courses.

CprE Core Classes: ECE 373, ECE 375, ECE 443, & ECE 470