ELECTRICAL ENGINEERING

Curriculum Guide effective Fall 2018 ~ North Dakota State University

TUDENT	ID #	ADVISOR

	Fall						Spring				
	Course	Э		Crs	Grade	Gen Ed	Course		Crs	Grade	Gen Ed
(<27 crs)	CHEM	121	General Chemistry I	3		S	ECE 111 [∀]	Intro to ECE	3		
	Wellness	Elec		2		W	ENGL 120	College Composition II	3		С
	ECE	173	Intro to Computing	4			MATH 129	Basic Linear Algebra	3		
man	ENGL	110	College Composition I	4		С	MATH 166	Calculus II	4		
Freshman	MATH	165	Calculus I	4		R	PHYS 251	Univ Physics I	4		S
Ы				17					17		
crs)	EE	206	Circuit Analysis I/lab	4			COMM 110	Fund Public Speaking	3		С
(27-59 crs)	MATH	265	Calculus III (w/vectors)	4			ECE 311	Circuit Analysis II/lab	4		
	PHYS	252	Univ Physics II	4		S	MATH 266	Intro Differential Equations	3		
Sophomore	ECE	275	Digital Design/lab	4			Tech Elective		3		
phor	Gen Ed E	lective	Science Lab	1		L	Gen Ed Elective		3		A or B
Sol				17					16		
()	ECE	320	Electronics I/lab	3			ECE 341	Random Processes	3		
9 crs	ECE	321	Electronics II/lab	2			ECE 401	Design I (capstone)	1		
(60 - 89 crs)	ECE	376	Embedded Systems/lab	4			ECE 331	Energy Conversion/lab	4		
	ECE	351	Applied EM/lab	4			Tech Elective		3		
Junior	ENGL		Upper Level Writing*	3		С	ECE 343	Signals & Systems	4		
				16					15		
	ECE	403	Design II (capstone)	2			ECE 405	Design III (capstone)	3		
(S	ENGR	402	Engr Ethics/Social Resp	1			ECE Elective		3		
) + crs)	ECE Elec	tive		3			ECE Elective		3		
Senior (90	Tech Elec	ctive		3			Gen Ed Elective		3		A or B
	Gen Ed E	lective [∓]		3		A or B	Tech Elective		3		
	Gen Ed E	lective [†]		3		A or B					
				15					15		
								TOTAL CREDITS	128		

General Education Electives									
App	Approved courses listed in the registration schedule centerfold.								
Gen Ed	Course	Crs	Grade						
Α		3							
Α		3							
В		3							
В		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

*Suggested to take either ECON 105, ECON 201, or ECON 202

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

^TSuggested to take ENGR 312 and ENGR 311

ECE Elective: any didactic ECE 4xx course², (not x93, 494,496)

Tech Elective: ECE 374, any didactic ECE 4xx course², ECE x93 or 494 (max 6 credits total between x93 and 494), ECE 496 (max 3 credits) or any course from accompanying list

[∀]Students must take ECE 111 prior to enrolling in ECE courses listed above in the Junior or Senior year; otherwise, students must take an additional ECE Elective in lieu of ECE 111

Students must earn a "C" or better in ECE 173, ECE 275, EE 206, and all required MATH courses, before enrolling in ECE courses listed above in the Junior or Senior years

¹ Students must have at least a 2.0 GPA in all required EE and ECE courses taken at NDSU, in order to graduate. Elective ECE courses are not included in this GPA requirement.

² See http://bulletin.ndsu.edu/course-catalog/descriptions/ece/ for the full list of ECE courses.

Electrical Engineering Curriculum Flowchart

