## Electrical Engineering, BS

all Term				Spring Ter	m		
	Course		Required Credit		Course		Required
Course	Number	Course Group/Description	Hours	Course	Number	Course Group/Description	Credit Hou
ENGR	1301	Foundations in Engineering I	3	ENGR	1302	Foundations in Engineering II	3
ENGR	1001	Foundations in Engineering I Lab	0	ENGR	1002	Found in Engineering II Lab	0
MATH	2211	Precalculus A	2	MATH	2313	Calculus I	3
MATH	2011	Precalculus A Lab	0	MATH	2113	Calculus I Lab	1
MATH	2212	Precalculus B	2	CSCI	1302	Computer Science Principles	3
MATH	2012	Precalculus B Lab	0	ENGL	1302	Research and Argument	3
PHYS PHYS	1308 1008	Introduction to Engineering/Physics Introduction to Engineering/Physics Lab	3	HIST	1302	United States History II	3
ENGL	1301	Rhetoric and Composition	3				
HIST	1301	United States History I	3				
-		Total Semester Hours				Total Semester Hours	16
				-			
econd	Year						
ll Term				Spring Ter			
_	Course	• • • • •	Required Credit		Course		Require
Course	Number	Course Group/Description	Hours	Course	Number	Course Group/Description	Credit Ho
ENGR	2305	Linear Circuit Analysis I	3	ENGR	3343	Digital Systems	3
ENGR	2105	Linear Circuit Analysis I Lab	1	ENGR	3043	Digital Systems Laboratory	0
PHYS	2325	Technical Physics I	3	PHYS	2326	Technical Physics II	3
PHYS	2125	Technical Physics I Laboratory	1	PHYS	2126	Technical Physics II Laboratory	1
MATH	2314	Calculus II	3	MATH	3315	Calculus III	3
MATH GOVT	2114 2305	Calculus II Lab Federal Government	1 3	MATH GOVT	3115 2306	Calculus III Lab Texas Government	1
GOVI	2305	Federal Government	5	GOVI	2300	Core LPC	3
						COLCENC	
		Total Semester Hours	15			Total Semester Hours	17
all Term		Total Semester Hours	15	Spring Ter	m	Total Semester Hours	
all Term	Course	Total Semester Hours	15 Required Credit	Spring Ter	m Course	Total Semester Hours	17
all Term Course	Course Number	Total Semester Hours Course Group/Description		Spring Ter Course		Total Semester Hours Course Group/Description	17 Required
			Required Credit Hours 3		Course	Course Group/Description Electronic Circuit Analysis II	17 Required
<b>Course</b> ENGR ENGR	Number 3344 3044	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab	Required Credit Hours 3 0	Course ENGR ENGR	Course Number 3452 3052	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab	17 Required Credit Hou 4 0
Course ENGR ENGR ENGR	Number 3344 3044 3370	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II	Required Credit Hours 3 0 3	Course ENGR ENGR MATH	Course Number 3452 3052 3325	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra	17 Required Credit Hot 4 0 3
Course ENGR ENGR ENGR ENGR	Number 3344 3044 3370 3451	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I	Required Credit Hours 3 0 3 4	Course ENGR ENGR MATH CHEM	Course           Number           3452           3052           3325           1311	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I	17 Required Credit Hou 4 0 3 3
Course ENGR ENGR ENGR ENGR ENGR	Number 3344 3044 3370 3451 3051	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab	Required Credit Hours 3 0 3 4 0	Course ENGR ENGR MATH	Course Number 3452 3052 3325	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab	17 Required Credit Hou 4 0 3 3 1
Course ENGR ENGR ENGR ENGR ENGR MATH	Number 3344 3044 3370 3451 3051 3340	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling	Required Credit Hours 3 0 3 4 0 3 3	Course ENGR ENGR MATH CHEM	Course           Number           3452           3052           3325           1311	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH	17 Required Credit Hou 4 0 3 3 1 1 3
Course ENGR ENGR ENGR ENGR ENGR MATH	Number 3344 3044 3370 3451 3051	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab	Required Credit Hours 3 0 3 4 0	Course ENGR ENGR MATH CHEM	Course Number 3452 3052 3325 1311	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab	17 Required Credit Hou 4 0 3 3 1
Course ENGR ENGR ENGR ENGR ENGR MATH	Number 3344 3044 3370 3451 3051 3340	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling	Required Credit Hours 3 0 3 4 0 3 3 3 3	Course ENGR ENGR MATH CHEM	Course Number 3452 3052 3325 1311	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH	17 Required Credit Hou 4 0 3 3 1 3 3
Course ENGR ENGR ENGR ENGR ENGR	Number 3344 3044 3370 3451 3051 3340	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling Differential Equations	Required Credit Hours 3 0 3 4 0 3 3 3 3	Course ENGR ENGR MATH CHEM	Course Number 3452 3052 3325 1311	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS	17 Required Credit Hou 4 0 3 3 1 1 3 3 3
Course ENGR ENGR ENGR ENGR MATH MATH	Number 3344 3044 3370 3451 3051 3340 3330	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling Differential Equations	Required Credit Hours 3 0 3 4 0 3 3 3 3	Course ENGR ENGR MATH CHEM CHEM	Course Number 3452 3052 3325 1311 1111	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS	17 Required Credit Hou 4 0 3 3 1 1 3 3 3
Course ENGR ENGR ENGR ENGR MATH MATH	Number 3344 3044 3370 3451 3051 3340 3330	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling Differential Equations	Required Credit Hours 3 0 3 4 0 3 3 3 3 16	Course ENGR ENGR MATH CHEM	Course Number 3452 3052 3325 1311 1111	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS	17 Required Credit Hou 4 0 3 3 1 1 3 3 1 1 7
Course ENGR ENGR ENGR ENGR MATH MATH	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours	Required Credit Hours           3           0           3           4           0           3           4           0           3           16	Course ENGR ENGR MATH CHEM CHEM	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours	17 Required Credit Hou 4 0 3 3 1 1 3 3 1 1 7 7 8 Required
Course ENGR ENGR ENGR ENGR MATH MATH MATH	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course           Number	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description	Required Credit Hours 3 0 3 4 0 3 3 3 3 16 Required Credit Hours	Course ENGR ENGR MATH CHEM CHEM Spring Ter Course	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description	17 Required Credit Hou 4 0 3 3 1 3 3 1 7 7 8 Required Credit Hou
Course ENGR ENGR ENGR ENGR MATH MATH MATH I Term Course ENGR	Number           3344           3044           3370           3451           3051           3340           3330           /ear           Course           Number           4260	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description Engineering Capstone Design I	Required Credit Hours 3 0 3 4 0 3 3 3 16 Required Credit Hours 2	Course ENGR ENGR MATH CHEM CHEM Spring Ter Course ENGR	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description Engineering Capstone Design II	17 Required Credit Hou 4 0 3 3 1 3 3 1 7 Required Credit Hou 2
Course ENGR ENGR ENGR ENGR MATH MATH MATH II Term Course ENGR ENGR	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course           Number           4260           4060	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description Engineering Capstone Design I	Required Credit Hours           3           0           3           4           0           3           4           0           3           4           0           3           4           0           3           16           Required Credit Hours           2           0	Course ENGR ENGR MATH CHEM CHEM Spring Ter Course ENGR ENGR	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description Engineering Capstone Design II Engineering Capstone Design II Lab	17 Required Credit Hou 4 0 3 1 3 1 3 3 1 7 Required Credit Hou 2 0
Course ENGR ENGR ENGR ENGR MATH MATH MATH	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course           Number           4260           4060           4353	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis I Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description Engineering Capstone Design I Enginerring Capstone Design I Lab Signals and Systems	Required Credit Hours           3           0           3           4           0           3           4           0           3           4           0           3           16           Required Credit Hours           2           0           3	Course ENGR ENGR MATH CHEM CHEM Spring Ter Course ENGR ENGR ENGR	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description Engineering Capstone Design II Engineering Capstone Design II Lab Communication Theory	17 Required Credit Hou 4 0 3 1 3 3 1 1 3 3 1 1 7 Required Credit Hou 2 0 3
Course ENGR ENGR ENGR ENGR MATH MATH MATH MATH Course ENGR ENGR ENGR ENGR ENGR	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course           Number           4260           4060           4353           4314	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description Engineering Capstone Design I Enginerring Capstone Design I Lab Signals and Systems Control Systems	Required Credit         Hours         3         0         3         4         0         3         4         0         3         4         0         3         16         Required Credit         Hours         2         0         3         3	Course ENGR ENGR MATH CHEM CHEM CHEM Spring Ter Course ENGR ENGR ENGR ENGR	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description Engineering Capstone Design II Engineering Capstone Design II Lab Communication Theory Electric Power Systems	17 Required Credit Hou 4 0 3 1 3 1 3 3 1 1 7 Required Credit Hou 2 0 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
Course ENGR ENGR ENGR ENGR MATH MATH MATH	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course           Number           4260           4060           4353	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description Engineering Capstone Design I Enginerring Capstone Design I Lab Signals and Systems Control Systems Technical and Scientific Writing	Required Credit         Hours         3         0         3         4         0         3         4         0         3         4         0         3         16         Required Credit         Hours         2         0         3         3         3         3         3         3         3         3         3         3	Course ENGR ENGR MATH CHEM CHEM Spring Ter Course ENGR ENGR ENGR	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description Engineering Capstone Design II Engineering Capstone Design II Lab Communication Theory Electric Power Systems Introduction to Electricity & Magnetism	17 Require Credit Hou 3 3 1 3 3 1 17 Require Credit Hou 2 0 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
Course ENGR ENGR ENGR ENGR MATH MATH MATH MATH MATH	Number           3344           3044           3370           3451           3051           3340           3330           (car           Course           Number           4260           4060           4353           4314	Course Group/Description Microcomputer Interfacing Microcomputer Interfacing Lab Linear Circuit Analysis II Electronic Circuit Analysis I Lab Probability Modeling Differential Equations Total Semester Hours Course Group/Description Engineering Capstone Design I Enginerring Capstone Design I Lab Signals and Systems Control Systems	Required Credit         Hours         3         0         3         4         0         3         4         0         3         4         0         3         16         Required Credit         Hours         2         0         3         3	Course ENGR ENGR MATH CHEM CHEM CHEM Spring Ter Course ENGR ENGR ENGR ENGR	Course Number 3452 3052 3325 1311 1111 	Course Group/Description Electronic Circuit Analysis II Electronic Circuit Analysis II Lab Computational Linear Algebra General Chemistry I General Chemistry I Lab Core SPCH Core S/BS Total Semester Hours Course Group/Description Engineering Capstone Design II Engineering Capstone Design II Lab Communication Theory Electric Power Systems	17 Required Credit Hou 4 0 3 1 3 1 3 3 1 1 7 Required Credit Hou 2 0 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1

Course Group Key							
Course Group Name	Credit Hours	Courses in Group					
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Core SPCH	3						
Public Speaking		SPCH	1315				
Interpersonal Communication		SPCH	1318				
Teamwork and Group Communication		SPCH	2333				
Core S/BS	3						
Cultural Anthropology	_	ANTH	2351				
Principles of Macroeconomics		ECON	2301				
Principles of Microeconomics		ECON	2302				
Intro to Human Dimensions and Recreation	on	FORS	2351				
World Regional Geography		GEOG	1303				
Survey of Mass Communication		MCOM	1307				
General Psychology		PSYC	2301				
Introduction to Sociology		SOCI	1301				
Core LPC	3						
Literary Genres	-	ENGL	2335				
Introduction to Mythology		ENGL	2309				
Introduction to wythology		ENGL	2309				
British Literature to 1800		ENGL	2322				
British Literature from 1800		ENGL	2323				
American Literature to 1865	ENGL	2327					
American Literature from 1865		ENGL	2328				
World Literature to 1650	ENGL	2332					
World Literature from 1650	ENGL	2333					
Introduction to Literature	ENGL	2341					
Western Civilization I	HIST	2311					
Western Civilization II		HIST	2312				
World Civilizations I		HIST	2321				
World Civilizations II	HIST	2322					
Introduction to Philosophy		PHIL	1301				
Introduction to World Religions	PHIL	1304					
Introduction to Ethics	PHIL	2306					
Core CA	3						
Art Appreciation		ARTS	1301				
Art History I (Prehistoric to the 14th centu	ARTS	1303					
Art History II (14th Century to the present	ARTS	1304					
Dance Appreciation	DANC	2303					
Theatre Appreciation	DRAM	1310					
Film and Culture		DRAM	2366				
Intro to Music Literature	MUMH	1307					
Music Appreciation		MUSI	1306				
Elective Option	3						
General Chemistry II		CHEM	1312				
General Chemistry II Lab		CHEM	1112				
Special Problems		ENGR	4175				
Computer Programming Principles		CSCI	2302				
Comparer Programming Principles CSCI 2.							
Geometric Modeling for Mechanical Desig	ENGR	1310					
Geometric Modeling for Mechanical Designation	gn LaB	ENGR	1010				