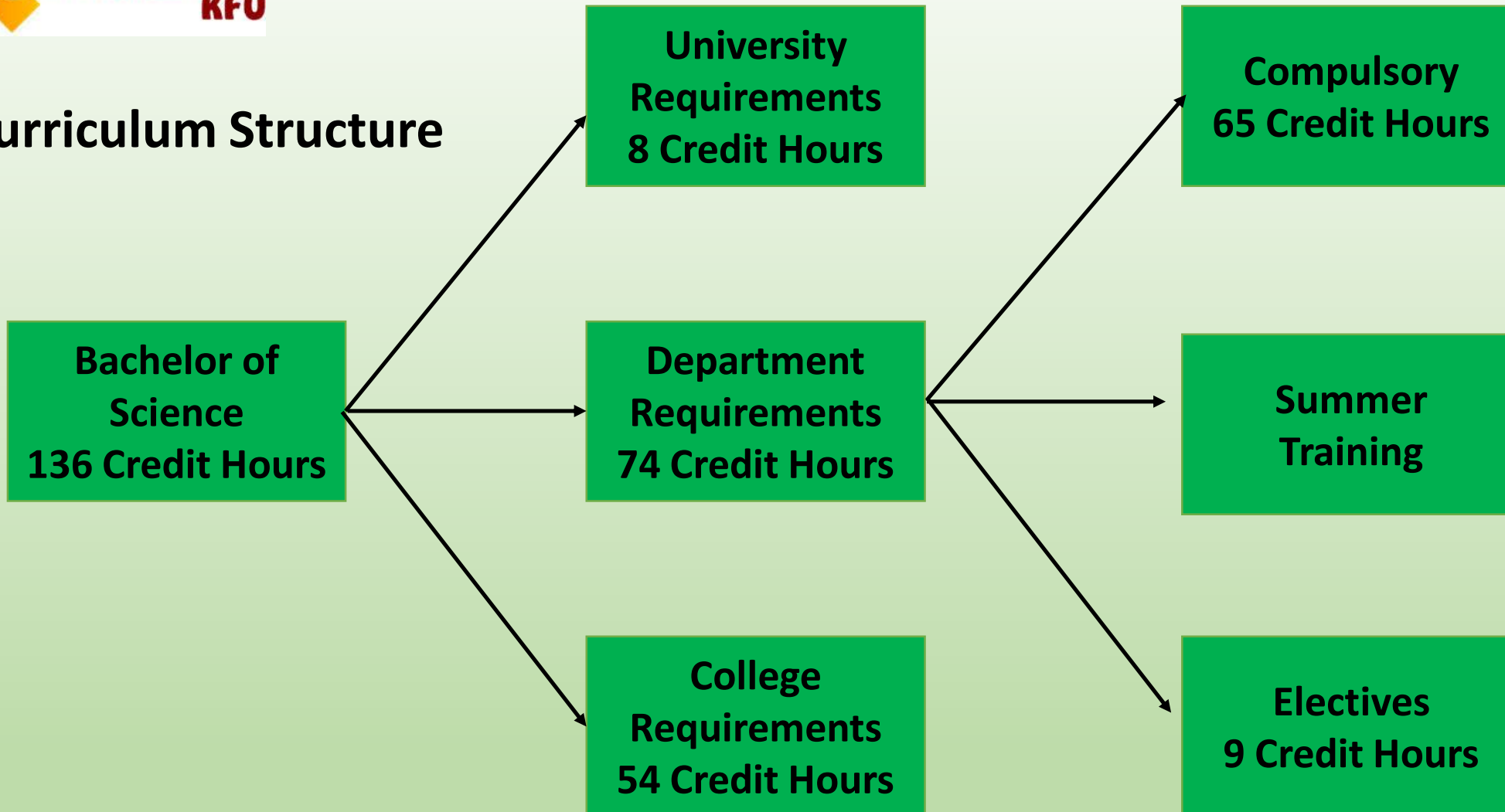


Curriculum Structure



EE Curriculum

1st Semester 16 CHs

2nd Semester 18 CHs

3rd Semester 18 CHs

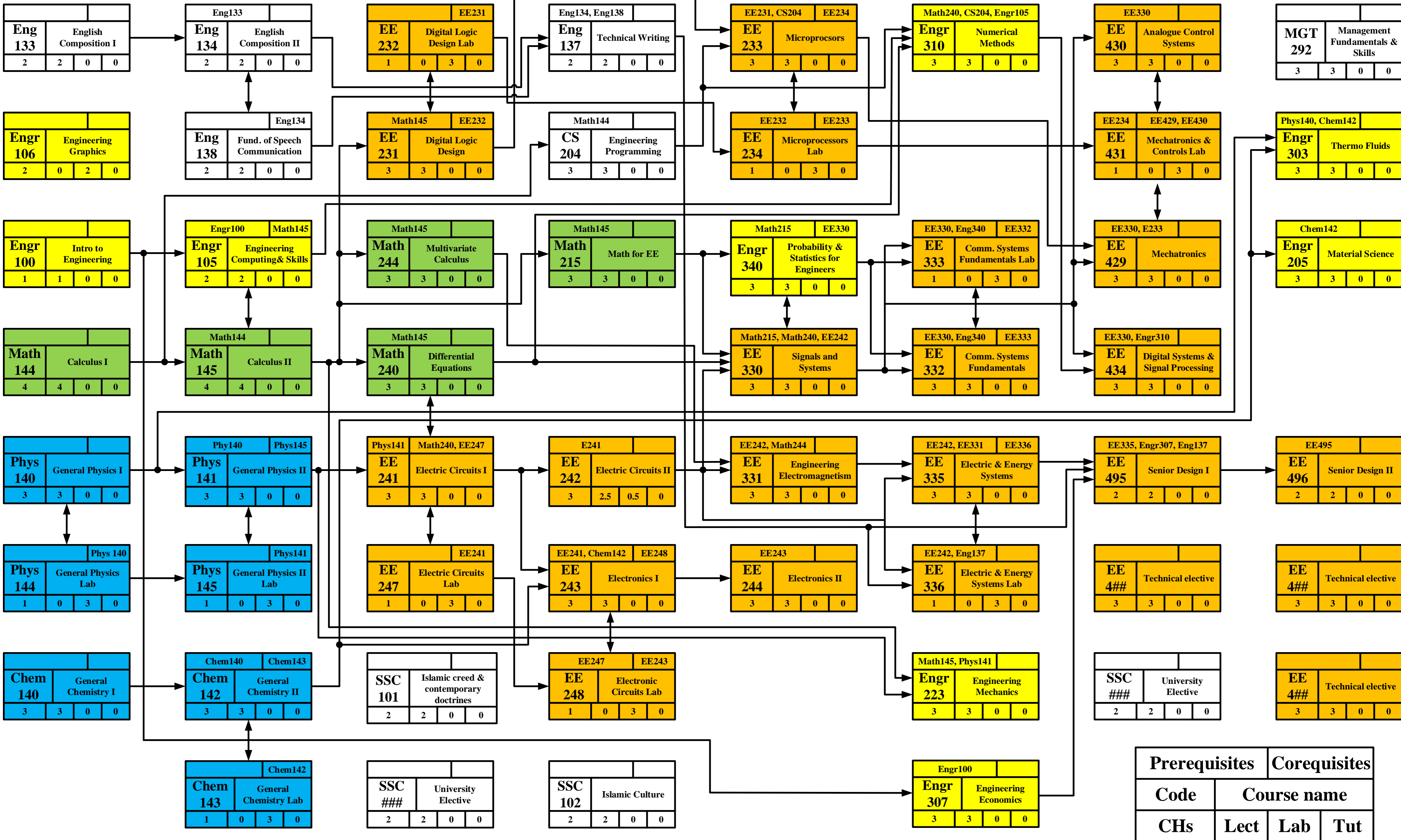
4th Semester 17 CHs

5th Semester 16 CHs

6th Semester 17 CHs

7th Semester 17 CHs

8th Semester 17 CHs



Study Plan of the Electrical Engineering Program

First Year/First Semester				
Course Code	Course Title	CH	Pre-Requisites	Co-Requisites
Chem 140	General Chemistry I	3		
Eng 133	English Composition I	2		
Engr 100	Introduction to Engineering	1		
Engr 106	Engineering Graphics	2		
Math 144	Calculus I	4		
Phys 140	General Physics I	3		Math 144, Phys 144
Phys 144	General Physics I Lab.	1		Phys 140
Total		16 CH		
First Year/Second Semester				
Course Code	Course Title	CH	Pre-Requisites	Co-Requisites
Chem 142	General Chemistry II	3	Chem 140	Chem 143
Chem 145	General Chemistry Lab	1		Chem 142
Eng134	English Composition II	2	Eng133	
Eng138	Fundamentals of Speech Communication	2		Eng 134
Engr105	Engineering Computing & Skills	2	Engr 100	Math 145
Math 145	Calculus II	4	Math 144	
Phys 141	General Physics II	3	Phys 140	Phys 145
Phys 145	General Physics II Lab.	1		Phys 141
Total		18 CH		
Second Year/First Semester				
Course code	Course title	CH	Pre-requisites	Co-requisites
EE 231	Digital Logic Design	3	Math 145	EE 232
EE 232	Digital Logic Design Lab	1		EE 231
EE 241	Electric Circuits I	3	Phys 141	Math240, EE247
EE 247	Electric Circuits Lab	1		EE 241
Math 240	Differential Equations	3	Math145	
Math 244	Multivariate Calculus	3	Math145	
SSC 101	Islamic Creed and Contemporary Doctrines	2		
SSC ###	University Elective	2		
Total		18 CH		

Second Year/Second Semester				
Course code	Course title	CH	Pre-requisites	Co-requisites
CS 204	Engineering Programming	3	Math 144	
EE 242	Electric Circuits II	3	Phys 141	Math240, EE247
EE 243	Electronics I	3	EE241, Chem142	EE 248
EE 248	Electronic Circuits Lab	1	EE 247	EE 243
Eng 137	Technical Writing	2	Eng134 Eng138	
Math 215	Math for EE	3	Math145 Math141	
SSC 102	University Elective	2		
Total		17 CH		
Third Year/First Semester				
Course code	Course title	CH	Pre-requisites	Co-requisites
EE 233	Microprocessors	3	EE 231, CS 204	EE 234
EE 234	Microprocessors Lab	1	EE 232	EE 233
EE 244	Electronics II	3	EE 243	
EE 330	Signals and Systems	3	Math240, Math215, EE242	
EE 331	Engineering Electromagnetics	3	Math 244, EE242	
Engr 340	Probability & Statistics for Engineers	3	Math215	EE 330
Total		16 CH		
Third Year/Second Semester				
Course code	Course title	CH	Pre-requisites	Co-requisites
EE 332	Communication Systems Fundamentals	3	EE 330, Engr 340	EE 333
EE 333	Communication Systems Fundamentals Lab	1	EE 330, Engr 340	EE 333
EE 335	Electric Energy & Power Systems	3	EE331, EE242	EE 336
EE 336	Electric Energy & Power Systems Lab	1	EE242	EE 335 Eng 137
Engr 223	Engineering Mechanics	3	Math145, Phys140	
Engr 307	Engineering Economics	3	Engr100	
Engr 310	Numerical Methods	3	Math240, CS204, Engr105	
Total		17 CH		
Third Year/Summer				
Course code	Course title	CH	Pre-requisites	Co-requisites
Engr 399	Engineering Training	0	Senior Level, Eng 137	

Fourth Year/First Semester				
Course code	Course title	CH	Pre-requisites	
EE 429	Mechatronics	3	EE 330, EE 233	
EE 430	Analogue Control Systems	3	EE 330	
EE 431	Mechatronics & Controls Lab	1	EE 234	
EE 434	Digital Systems & Signal Processing	3	EE 330, Engr 310	
EE 495	Senior Design I	2	EE335, Engr 307, Eng 137	
EE 4xx	Technical Elective I	3		
SSC ###	University Elective	2		
Total		17 CH		
Fourth Year/Second Semester				
Course code	Course title	CH	Pre-requisites	
EE 496	Senior Design II	2	EE 495	
EE 4xx	Technical Elective II	3		
EE 4xx	Technical Elective III	3		
Engr 205	Materials Science	3	Chem 142	
Engr 303	Thermo-Fluids	3	Phys140, Chem142	
Mgt 292	Management Fundamentals & Skills	3		
Total		17 CH		