#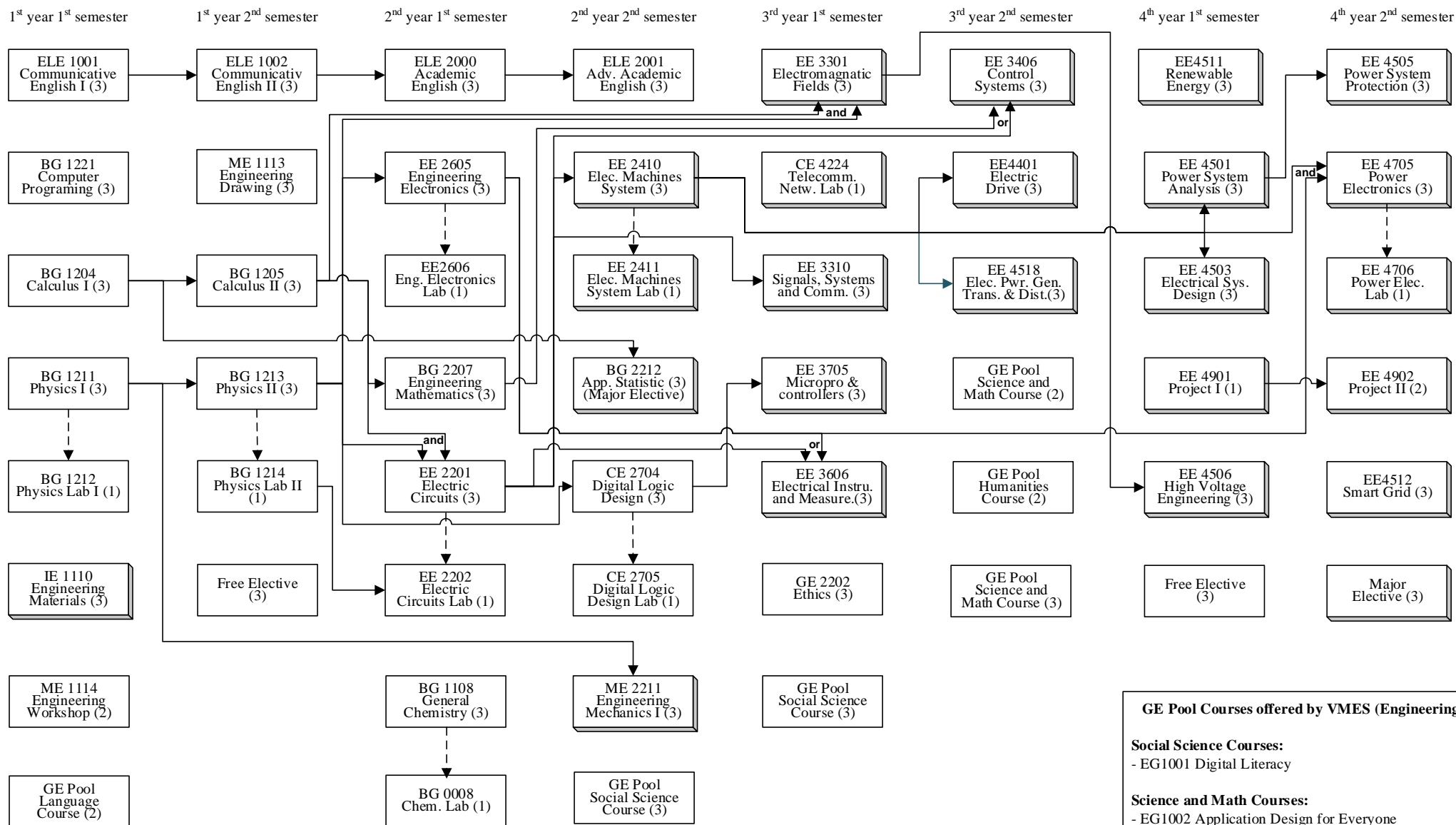 Bachelor of Electrical and Computer Engineering (Major Electrical Engineering) – Curriculum for 651-XXXX to 69X-XXXX Students (140 Credits)

1st year 1st semester	1st year 2nd semester	2nd year 1st semester	2nd year 2nd semester	3rd year 1st semester	3rd year 2nd semester	4th year 1st semester	4th year 2nd semester
ELE 1001 Communicative English I (3)	ELE 1002 Communicativ English II (3)	ELE 2000 Academic English (3)	ELE 2001 Adv. Academic English (3)	EE 3301 Electromagnatic Fields (3)	EE 3406 Control Systems (3)	EE4511 Renewable Energy (3)	EE 4505 Power System Protection (3)
BG 1221 Computer Programing (3)	ME 1113 Engineering Drawing (3)	EE 2605 Engineering Electronics (3)	EE 2410 Elec. Machines System (3)	CE 4224 Telecomm. Netw. Lab (1)	EE4401 Electric Drive (3)	EE 4501 Power System Analysis (3)	EE 4705 Power Electronics (3)
BG 1204 Calculus I (3)	BG 1205 Calculus II (3)	EE2606 Eng. Electronics Lab (1)	EE 2411 Elec. Machines System Lab (1)	EE 3310 Signals, Systems and Comm. (3)	EE 4518 Elec. Pwr. Gen. Trans. & Dist.(3)	EE 4503 Electrical Sys. Design (3)	EE 4706 Power Elec. Lab (1)
BG 1211 Physics I (3)	BG 1213 Physics II (3)	BG 2207 Engineering Mathematics (3)	BG 2212 App. Statistic (3) (Major Elective)	EE 3705 Micropro & controllers (3)	GE Pool Science and Math Course (2)	EE 4901 Project I (1)	EE 4902 Project II (2)
BG 1212 Physics Lab I (1)	BG 1214 Physics Lab II (1)	EE 2201 Electric Circuits (3)	CE 2704 Digital Logic Design (3)	EE 3606 Electrical Instru. and Measure.(3)	GE Pool Humanities Course (2)	EE 4506 High Voltage Engineering (3)	EE4512 Smart Grid (3)
IE 1110 Engineering Materials (3)	Free Elective (3)	EE 2202 Electric Circuits Lab (1)	CE 2705 Digital Logic Design Lab (1)	GE 2202 Ethics (3)	GE Pool Science and Math Course (3)	Free Elective (3)	Major Elective (3)
ME 1114 Engineering Workshop (2)		BG 1108 General Chemistry (3)	ME 2211 Engineering Mechanics I (3)	GE Pool Social Science Course (3)			
GE Pool Language Course (2)		BG 0008 Chem. Lab (1)	GE Pool Social Science Course (3)				

and / or

GE Pool Courses offered by VMES (Engineering)

Social Science Courses:
- EG1001 Digital Literacy

Science and Math Courses:
- EG1002 Application Design for Everyone
- EG1003 Introduction to Internet of Things (IoTs)
- EG1004 Artificial Intelligence for begineers
- BG1005 3D Modelling and 3D Printing Technology

Special Pre-requisites:
For CE4224, completion of 60 credits
For EE4901, completion of 100 credits

Nov. 1st, 2024