Bachelor of Science in Engineering

Electrical Engineering Concentration | 4-Year Sample Sequence

2022-2023 Sample Course Schedule -- This is a recommended schedule and may be altered as needed. Consult your adviser when making changes. See degree audit for Christian Service requirements.

Year 1 Summer ENGL 101	Critical Thinking in Acad. Rdg/Wrtg I	3			
Fall			Winter		
ENGR 122	Introduction to Engineering & Design	2	ENGR 149	Intro to Mechanical Drawing and CADD	3
MATH 191	Calculus I	4	ENGR 200	Digital Logic & Design	3
CHEM 151	j ,	4	MATH 192	Calculus II	4
	Intro to Public Speaking	3	CPTR 124	Fundamentals of Programming	4
ENGL 102	Critical Thinking in Acad. Rdg/Wrtg II Total:	3 16	MATH 200	Elementary Linear Algebra Total:	2 16
Year 2 Summer					
R-1	Spiritual Development	3			
Fall			Winter		
MATH 218	Calculus III	4	MATH 315	Differential Equations	3
PHYS 221	Physics for Scientists and Engineers I	4	PHYS 222	Physics for Scientists and Engineers II	4
PHYS 223	Physics for Scientists & Engineers Lab I	1	PHYS 224	Physics for Scientists & Engineers Lab II	1
ENGR 220	Introduction to Signal Processing	4	ENGR 224	Circuit Analysis	4
ENGR 211	Engineering Mechanics: Statics	<u>3</u>	ENGR 212	Engineering Mechanics: Dynamics	3
			PEAC 125	Fitness for Collegiate Life	<u>1</u>
	Total:	16		Total:	16
Year 3					
Fall			Winter		
ENGR 328	Analog Electronics	3	ENGR 385	Robotics	4
ENGR 380	Microcontroller Design	4	ENGR 435	Electromagnetic Fields	3
ENGR 393	Electrical Energy Conversion	4	ENGR 415	Power Electronics	3
MATH 327	Probability and Statistics	3	ENGR UD	EE Approved Elective	3
CPTE 100	Computer Concepts	1	R-3	Biblical Studies (W)	<u>3</u>
P-1b	PEAC Activity Course Total:	16		Total:	16
	i otai.	10		i otai.	10
Year 4			****		
Fall			Winter		
ENGR 460	Engineering Ethics and Management	2	ENGR 462	Engineering Economy	2
ENGR 481	Senior Design I (W)	1	ENGR 482	Senior Design II	2
ENGR 450	Power System Analysis and Design	3	IN-8	Human Development	3
ENGR 390	Engineering Measurements Seventh-day Adventist Teachings	3	R-4	Biblical Studies (W) Fit for Hire	3
R-2 IN-10	Aesthetic Analysis	3	PEAC 425 IN-6	History	1
P-1b	PEAC Activity Course	3 <u>1</u>	11N-O	1115(01)	<u>3</u>
1-10	Total:	16		Total:	14

Grand Total: 132

Bachelor of Science in Engineering

Electrical Engineering Concentration | 5-Year Sample Sequence

2022-2023 Sample Course Schedule -- This is a recommended schedule and may be altered as needed. Consult your adviser when making changes. See degree audit for Christian Service requirements.

Year 1					
Fall			Winter		
ENGR 122	Introduction to Engineering & Design	2	ENGR 149	Intro to Mechanical Drawing and CADD	3
MATH 191	Calculus I	4	MATH 192	Calculus II	4
CHEM 151	General Chemistry I	4	R-1	Spiritual Development	3
ENGL 101	Critical Thinking in Acad. Rdg/Wrtg I	<u>3</u>	ENGL 102	Critical Thinking in Acad. Rdg/Wrtg II	3
			PEAC 125	Fitness for Collegiate Life	<u>1</u>
	Total:	13		Total:	14
Year 2					
Fall			Winter		
MATH 218	Calculus III	4	ENGR 200	Digital Logic & Design	3
PHYS 221	Physics for Scientists and Engineers I	4	MATH 200	Elementary Linear Algebra	2
PHYS 223	Physics for Scientists & Engineers Lab II	1	CPTR 124	Fundamentals of Programming	4
R-2	Seventh-day Adventist Teachings	3	PHYS 222	Physics for Scientists and Engineers II	4
P-1b	PEAC Activity Course	1	PHYS 224	Physics for Scientists & Engineers Lab II	1
	Total:	13		Total:	14
Year 3					
Fall			Winter		
ENGR 211	Engineering Mechanics: Statics	3	ENGR 212	Engineering Mechanics: Dynamics	3
ENGR 220	Introduction to Signal Processing	4	ENGR 224	Circuit Analysis	4
COMM 135	Intro to Public Speaking	3	MATH 315	Differential Equations	3
IN-8	Human Development	<u>3</u>	R-3	Biblical Studies (W)	3
			P-1b	PEAC Activity Course	<u>1</u>
	Total:	13		Total	14
Year 4					
Fall			Winter		
ENGR 328	Analog Electronics	3	ENGR 385	Robotics	4
ENGR 380	Microcontroller Design	4	ENGR 415	Power Electronics	3
ENGR 393	Electrical Energy Conversion	4	ENGR 435	Electromagnetic Fields	3
MATH 327	Probability and Statistics	<u>3</u>	ENGR UD	EE Approved Elective	<u>3</u>
	Total:	14		Total:	13
Year 5					
Fall			Winter		
ENGR 390	Engineering Measurements	3	ENGR 462	Engineering Economy	2
ENGR 450	Power System Analysis and Design	3	ENGR 482	Senior Design II	2
ENGR 460	Engineering Ethics and Management	2	IN-6	History	3
ENGR 481	Senior Design I (W)	1	CPTE 100	Computer Concepts	1
IN-10	Aesthetic Analysis	<u>3</u>	R-4	Biblical Studies (W)	3
			PEAC 425	Fit for Hire	<u>1</u>
	Total:	12		Total:	12
Vicit couther	n.edu/engineering for more information.			Grand Total:	132
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