ORAL ROBERTS UNIVERSITY DEGREE: Bachelor of Science in Engineering MAJOR: Engineering CONCENTRATION: Electrical Engineering (EGR/EEC) Name Z#				, Dub				TOTAL HOURS REQUIRED Hours in Major Hours in Concentration Hours in Cognate Hours in General Education	130 27 37 18 48
Z# Telepho	ne			En					
Advisor									_
SEMEST TAKEN	E COURSE CODE		COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	R COURSI CODE	≣	COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 1					FRESHMAN Semester 2	
	COMP THE MAT CHE CHE EGR EGR GEN PRFH MAT PHY EGR EGR BLIT EGR HPE	101 100 150 070 321 112	Composition II* Spirit-Empowered Living Calculus I++ General Chemistry I General Chemistry I Lab Introduction to Engineering Engineering/Physics Seminar Intro to Whole Person Education Swimming Proficiency SOPHOMORE Semester 3 Calculus III Physics II Physics II Lab Engineering Computational Methods Mechanics I: Statics Christian Life I Engineering/Physics Seminar HPE Activity^	3 2 4 3 1 2 0 1 0 16		COM THE MAT PHY PHY EGR EGR HPE Every st MAT EGR EGR EGR CMPE CMPE EGR HPE	101 105 202 111 111L 140 100 155 udent m 211 210 210L 231 222 340 340L 100	Heat and Thermodynamics Mechanics II: Dynamics Digital Systems Design	3 2 4 3 1 2 0 1 16
	MAT EE EE EGR EGR HPE	325 311 321 321L 330 100	JUNIOR Semester 5 Foreign Language ~ Probability and Statistics Network Analysis II Electronics I Electronics I Lab Control Systems # Engineering/Physics Seminar HPE Activity^	3 3 3 3 1 3 0		BLIT COMP PHY PHY EE EE MAT EGR	122 303 211 211L 322 322L 312 100	JUNIOR Semester 6 Christian Life II Critical Reading and Writing Introduction to Modern Physics # Introduction to Modern Physics Lab# Electronics II Electronics II Lab Linear and Matrix Algebra Engineering/Physics Seminar	2 3 3 1 3 1 3

 HPE	400	Lifelong Wellness^	0.5	 GOV/HIS		Civics Elective **	3
 HUM		Humanities Options+++	3	 		Social Sciences Elective+	3
 EGR	461	Engineering Management and Economy	2	 HUM		Humanities Options+++	3
 EE	360	Electromagnetic Theory	3	 	-	Technical Elective	3
 		Technical Elective	3	 EGR	499	Senior Design and Research II	2
 		Technical Elective	3	 PRFR	001	FE Exam Proficiency	0
 EGR	498	Senior Design and Research I	2	 EGR	100	Engineering/Physics Seminar	0
 EGR	100	Engineering/Physics Seminar	0	 HPE		HPE Activity^	0.5
			16.5				14.5

HPE

HPE Activity^

SENIOR Semester 8

16.5

- * If the student is required to enroll in COMP 101, then COMP 102 must be taken before semester 6 and one of the other General Education courses will be taken by correspondence or summer school.
- ++ Students who need Precalculus in semester I should take Calculus I in the spring and Physics I in the summer.
- PSY 201 Principles of Psychology, MUS 208 Music in World Cultures, SWK 202 Introduction to Social Work, SOC 101 Introduction in Sociology, SOC 201 Marriage and Family, SOC 323 Child and Family in the Social Context, BUS 201 Principles of Economics I, or FIN 244 Personal Financial Planning (recommended)
- ** See list of Civics options on the back.
- +++ See list of Humanities (HUM) options on the back.
- # May be taken in senior year (switched with technical elective.)

SENIOR Semester 7

~ Foreign Language 101 or 102 will require an additional credit hour.

0.5 16.5

BS in Engineering - Electrical Engineering Concentration (EGR/EEC)

General Educa	tion		Credit Hours			
		rson Education (GEN 150) Counts as HPE Activity	1			
	6					
1 \	Composition (COMP 102, 303) Oral Communication (COM 101)					
•	Jmanities (HUM: 201*, 202*, 203*, 204*,333,342; ART: 103,104,307; DANP 125; DRAM:215,304;					
·	AUS 130) *At least one course must be chosen from courses marked with asterisks.					
,	vics (GOV 101, GOV, 103, HIS 110, HIS 111, or HIS 200) preign Language (101, 102, 203 or 204) * fulfills "GO" course requirement					
	• .		3 4			
Biblical Literacy Theology (THE			4			
•••						
Chemistry (CHE		,	4			
Physics (PHY 1		e and lab)	4			
Mathematics (M		(Obelies of assertible fallocies - POV 004 - MHO 000 - OMIX 000 - OOO 404	3			
		(Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101, 3, BUS 201 or FIN 244-recommended.)	3			
		se per full-time semester at ORU, including HPE 155 and 400, swimming	4			
	course or proficiency, and electives.)					
		General Education Total	48			
Major						
EGR	100	Engineering/Physics Seminar	0			
EGR	101	Introduction to Engineering	2			
EGR	140	Engineering Graphics	2			
EGR	210	Network Analysis I (lecture and lab)	4			
EGR	221	Mechanics I: Statics	3			
EGR	231	Heat and Thermodynamics	3			
EGR	461	Engineering Management and Economy	2			
EGR	498	Senior Design and Research I	2			
EGR	499	Senior Design and Research II	2			
PRFR	001	FE Exam Proficiency	0			
PHY	112	Physics II (lecture and lab)	4			
EGR	252	Engineering Computational Methods	3			
		Major Total	27			
	Floatrical Funite coning Composition (FF)					
	Electrical Engineering Concentration (EE)					
PHY	211	Introduction to Modern Physics (lecture and lab)	4			
EGR	222	Mechanics II: Dynamics	3			
EGR	330	Control Systems	3			
EE	311	Network Analysis II	3			
EE 	321	Electronics I (lecture and lab)	4			
EE	322	Electronics II (lecture and lab)	4			
EE	360	Electromagnetic Theory	3			
CMPE	CMPE 340 Digital Systems Design (lecture and lab)		4			
Choice o	Choice of three of the following technical elective courses:					
EE	325	Design with Standard Components	9			
EE	450	Digital Signal Processing				
EGR	331	Design of Control Systems				
CMPE	312	Computer Networks and Communications				
CMPE	441	Microprocessor Systems Design				
CMPE	443	Computer Architecture				
CMPE	450	Special Topics: Artificial Intelligence				
OWII L	400	Electrical Engineering Concentration Total	37			
Cognate			Ψ.			
MAT	201	Calculus I	4			
MAT	202	Calculus II	4			
MAT	211	Differential Equations	3			
MAT	312	Linear and Matrix Algebra	3			
MAT	321	Calculus III	4			
IVI/A I	Cognate Total					
			18			
		Degree Total	130			

^{*}All students must pass the seminar course each semester they are enrolled in this major.