		EGR/EE		
ORAL ROBERTS UNIVERSITY		DEGREE PLAN SHEET 2009-2010	TOTAL HOURS REQUIRED	137
	Engineering, Comput	ter Science, Physics & Mathematics Department	Hours in Major	41
			Hours in Concentration	40
DEGREE: MAJOR:	Bachelor of Science in Engine ENGINEERING - Electrical Co	•	Hours in General Education	56
Name				
ID _		Date		
Telephone		Email		

SEMESTER TAKEN	COURSE	COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE	Ī	COURSE TITLE	CREDIT HOURS
	THE 10	Reading/Writing in Liberal Charismatic Life & Healing ** Calculus I General Chemistry I General Chemistry I Lab Introduction to Engineerin Swimming Proficiency Engineering/Physics Sem	g Ministry 3 4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		HPER COM HUM MAT PHY PHY EGR EGR	002 101 101 202 111 ** 111 ** 140	FRESHMAN Semester 2 Health Fitness II Oral Communication Humanities: Humanitas Calculus II Physics I Physics I Lab Engineering Graphics Engineering /Physics Seminar	1 3 3 4 3 1 2 0
	PHY 1	2 Physics II 2 Physics II Lab 2 Engineering Computation 1 Mechanics I: Statics 0 Survey of Old Testament	0.5 eral Variables 4 3 1 al Methods 3 3 Literature 3		HPER MAT EGR EGR EGR CMPE CMPE EGR	211 210 210 231 222 340 340 100	SOPHOMORE Semester 4 HPER Activity Differential Equations Network Analysis I Network Analysis I Lab Heat & Thermodynamics Mechanics II: Dynamics Digital Systems Design Digital Systems Design Lab Engineering/Physics Seminar	0.5 3 3 1 3 3 3 1 0
				<u>SUMMER</u>	BLIT HUM	120	Survey of New Testament Literature Humanities Options	3 3
	HUM EE 3: EE 3: EGR 1:0	Electronics I Electronics I Lab U Control Systems	0.5 3 3 3 3 1 1 3 inar 0		HPER COMP HUM MAT EE EE	303 +++ 322 322 322 ++	JUNIOR Semester 6 HPER Activity Critical Reading and Writing Humanities Options Math Elective (upper division) Electronic II Electronic II Lab Technical Elective Engineering/Physics Seminar	0.5 3 3 3 1 3 0
	HPER HIS 10 EGR 40 EE 30 EGR 45 EGR 10	60 Electromagnetic Theory ++ Technical Elective ++ Technical Elective 80 Senior Design & Research	3 3 3 1 1		HPER GOV PHY PHY EGR	101 211 211 211 ++ 499 100	SENIOR Semester 8 HPER Activity American Government Modern Physics Modern Physics Lab Technical Elective Senior Design & Research II Engineering/Physics Seminar Participation in Graduation Exercises	0.5 3 3 1 3 2 0 0

KEY

- \* If the student is required to enroll in English (COMP 101), Reading and Writing in the Liberal Arts (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.
- BUS 201 Principles of Economics I (recommended), PSY 201 Principles of Psychology, SOC 101 Introduction in Sociology, FIN 244 Personal Financial Planning, SOC 201 Marriage and Family, MUS 208 Music in World Cultures, SWK 202 Introduction to Social Work, or SOC 323 Child and Family in the Social Context.
- ++ Please see back of degree plan sheet for listing of courses available as electives.
- # May be taken in fall of senior year (Switched with technical elective).
- +++ See list of Humanities (HUM) options on the back.

Advisor

## Bachelor of Science in Engineering 2009-2010 Electrical Engineering Concentration (EE)

General Education	on		Credit Hours				
Whole Person Ass		(GEN 099)	0				
English (COMP 10		·	6				
Oral Communicati	on (COM	101)	3				
Humanities (HUM	101 plus	three of the following: HUM 222*, 233*, 244*, 250, 255, 260, 270, 301*, 333*, ART	12				
103, ART 104, MUS 300, DRAM 215, COMP 101) *At least one course must be chosen from courses marked							
with asterisks.							
Biblical Literature		), 120)	6				
Theology (THE 10	•		3				
Chemistry (CHE 1		,	4				
Physics (PHS 111		nd lab)	4				
Mathematics (MA	-		4				
American History	-		3				
American Govern	•	·	3				
		US 101 recommended)	3				
-		and Recreation (Health Fitness I & II,	5				
swimming course	or proficie	silcy, six electives)					
		General Education Total	56				
<u>Cognate</u>							
MAT	202	Calculus II	4				
MAT	211	Differential Equations	3				
MAT	321	Calculus of Functions of Several variables	4				
MAT		Electives (upper division)	3				
		Cognate Total	14				
<u>Major</u>		oognato rotar					
EGR	100	Engineering/Physics Seminar	0				
EGR	101	Introduction to Engineering	2				
EGR	140	Engineering Graphics	2				
EGR	210	Network Analysis I (lecture & 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				
PHY	112	Physics II (lecture & lab)	4				
EGR	252	Engineering Computational Methods	3				
		Major Total	27				
		Electrical Engineering Concentration (EE)					
PHY	211	Introduction to Modern Physics	4				
EGR	222	Mechanics II: Dynamics	3				
EGR	330	Control Systems	3				
EE	311	Network Analysis II	3				
EE	321	Electronics I	4				
EE	322	Electronics II	4				
EE	360	Electromagnetic Theory	3				
CMPE	340	Digital Systems Design	4				
		Choice of four of the following:	12				
EE 	325	Design W/ Standard Components					
EE	361	Power Systems Analysis					
EE	363	Electromechanical Devices					
EE	450	Digital Signal Processing					
EE	462	Design of Power Systems					
EGR	331	Design of Control Systems					
CMPE	441	Microprocessor Systems Design					
CMPE	443	Computer Architecture Electrical Engineering Concentration Total	40				
		DEGREE TOTAL	137				
		DEGREE IVINE	107				

<sup>\*</sup>All students must pass the seminar course each semester they are enrolled in this major.