

EGRB

ORAL ROBERTS UNIVERSITY DEGREE PLAN SHEET 2009-2010
 Engineering, Computer Science, Physics & Mathematics Department
 DEGREE: Bachelor of Science
 MAJOR: BIOMEDICAL ENGINEERING
 CONCENTRATION: None

TOTAL HOURS REQUIRED 137
 Hours in Major 81
 Hours in General Education 56

Name _____
 ID _____ Date _____
 Telephone _____ Email _____
 Advisor _____

SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS
<u>FRESHMAN Semester 1</u>				<u>FRESHMAN Semester 2</u>			
_____	HPER 001	Health Fitness I	1	_____	HPER 002	Health Fitness II	1
_____	COMP 102	* Reading/Writing in Liberal Arts	3	_____	BLIT 120	Survey of New Testament Literature	3
_____	THE 103	Charismatic Life & Healing Ministry	3	_____	CHE 112	General Chemistry II	3
_____	MAT 201	++ Calculus I	4	_____	CHE 112	General Chemistry II Lab	1
_____	CHE 111	General Chemistry I	3	_____	MAT 202	Calculus II	4
_____	CHE 111	General Chemistry I Lab	1	_____	PHY 111	++ Physics I	3
_____	EGR 101	Introduction to Engineering	2	_____	PHY 111	++ Physics I Lab	1
_____	HPER 070	Swimming Proficiency	0	_____	EGR 140	Engineering Graphics	2
_____	EGR 100	Engineering/Physics Seminar	0	_____	EGR 100	Engineering /Physics Seminar	0
_____	GEN 099	Whole Person Assessment	0				18
			17				
<u>SOPHOMORE Semester 3</u>				<u>SOPHOMORE Semester 4</u>			
_____	HPER _____	HPER Activity	0.5	_____	HPER _____	HPER Activity	0.5
_____	MAT 321	Calculus of Functions of Several Variables	4	_____	MAT 211	Differential Equations	3
_____	PHY 112	Physics II	3	_____	EGR 210	Network Analysis I	3
_____	PHY 112	Physics II Lab	1	_____	EGR 210	Network Analysis I Lab	1
_____	CHE 211	Organic Chemistry I	3	_____	CHE 212	Organic Chemistry II	3
_____	CHE 211	Organic Chemistry I Lab	1	_____	CHE 212	Organic Chemistry II Lab	1
_____	BLIT 110	Survey of Old Testament Literature	3	_____	HUM 101	Humanities: Humanitas	3
_____		+ Social Science Elective	3	_____	COM 101	Oral Communication	3
_____	EGR 100	Engineering/Physics Seminar	0	_____	EGR 100	Engineering/Physics Seminar	0
			18.5				17.5
				SUMMER			
				_____	HUM _____	+++ Humanities Options	3
<u>JUNIOR Semester 5</u>				<u>JUNIOR Semester 6</u>			
_____	HPER _____	HPER Activity	0.5	_____	HPER _____	HPER Activity	0.5
_____	HUM _____	+++ Humanities Options	3	_____	COMP 303	Critical Reading and Writing	3
_____	BIO 111	Introduction to Biology I	3	_____	HUM _____	+++ Humanities Options	3
_____	BIO 111	Introduction to Biology I Lab	1	_____	BE 310	Biomed Engineering Survey OR	3
_____	EE 311	Network Analysis II	3	_____	GOV 101	American Government	
_____	EGR 252	Engineering Computational Methods	3	_____	PHS 223	Human Anatomy	3
_____	EE 321	Electronics I	3	_____	PHS 223	Human Anatomy Lab	1
_____	EE 321	Electronics I Lab	1	_____	EE 322	Electronics II	3
_____	EGR 100	Engineering/Physics Seminar	0	_____	EE 322	Electronics II Lab	1
			17.5	_____	EGR 100	Engineering/Physics Seminar	0
							17.5
<u>SENIOR Semester 7</u>				<u>SENIOR Semester 8</u>			
_____	HPER _____	HPER Activity	0.5	_____	HPER _____	HPER Activity	0.5
_____	HIS 101	American History	3	_____	GOV 101	American Government OR	3
_____	EGR 221	Mechanics I: Statics	3	_____	BE 310	Biomedical Engineering Survey	
_____	EE 360	Electromagnetic Theory	3	_____	EGR 222	Mechanics II: Dynamics	3
_____	PHS 224	Human Physiology	3	_____	BIO 112	Introduction to Biology II	3
_____	PHS 224	Human Physiology Lab	1	_____	BIO 112	Introduction to Biology II Lab	1
_____	EGR 498	Senior Design & Research I	2	_____	EGR 499	Senior Design & Research II	2
_____	EGR 100	Engineering/Physics Seminar	0	_____	EGR 100	Engineering/Physics Seminar	0
			15.5			Participation in Graduation Exercises	0
							12.5

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 101 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.
- +++ See list of Humanities (HUM) options on the back.

Bachelor Science in Biomedical Engineering (EGRB)
Concentration: None

2009-2010

General Education

Credit Hours

Whole Person Assessment (GEN 099)	0
English (COMP 102, 303)	6
Oral Communication (COM 101)	3
Humanities (HUM 101 plus three of the following: HUM 222*, 233*, 244*, 250, 255, 260, 270, 301*, 333*, ART 103, ART 104, MUS 300, DRAM 215, COMP 101) *At least one course must be chosen from courses marked with asterisks.	12
Biblical Literature (BLIT 110, 120)	6
Theology (THE 103)	3
Chemistry (CHE 111 lecture and lab)	4
Physics (PHS 111 lecture and lab)	4
Mathematics (MAT 201)	4
American History (HIS 101)	3
American Government (GOV 101)	3
Social Sciences Elective (BUS 101 recommended)	3
Health, Physical Education, and Recreation (Health Fitness I & II, swimming course or proficiency, six electives)	5

General Education Total

56

Cognate

MAT	202	Calculus II	4
MAT	211	Differential Equations	3
MAT	321	Calculus of Functions of Several variables	4

Cognate Total

11

Major

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	222	Mechanics II: Dynamics	3
EGR	252	Engineering Computational Methods	3
EGR	498	Senior Design and Research I	2
EGR	499	Senior Design and Research II	2
BE	310	Biomedical Engineering Survey	3
EE	311	Network Analysis II	3
EE	321	Electronics I	4
EE	322	Electronics II	4
EE	360	Electromagnetic Theory	3
EGR	100	Engineering/Physics Seminar	0
CHE	112	General Chemistry I (lecture & lab)	4
CHE	211	Organic Chemistry I (lecture & lab)	4
CHE	212	Organic Chemistry II (lecture & lab)	4
PHY	112	Physics II (lecture & lab)	4
BIO	111	Introduction to Biology I (lecture & lab)	4
BIO	112	Introduction to Biology II (lecture & lab)	4
PHS	223	Human Anatomy & Physiology I (lecture & lab)	4
PHS	224	Human Anatomy & Physiology II (lecture & lab)	4

Major Total

70

DEGREE TOTAL

137

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