

EGRV

ORAL ROBERTS UNIVERSITY **DEGREE PLAN SHEET 2009-2010**
Engineering, Computer Science, Physics & Mathematics Department

DEGREE: Bachelor of Science
MAJOR: ENVIRONMENTAL ENGINEERING
CONCENTRATION: None

TOTAL HOURS REQUIRED 136
Hours in Major 80
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
FRESHMAN Semester 1				FRESHMAN Semester 2			
_____	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				

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	HPER _____	HPER Activity	0.5	_____	HPER _____	HPER Activity	0.5
_____	EGR 252	Engineering Computational Methods	3	_____	MAT 211	Differential Equations	3
_____	PHY 112	Physics II	3	_____	PSC 201	Earth Science	3
_____	PHY 112	Physics II Lab	1	_____	PSC 201	Earth Science 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 +++	Humanities Options	3
_____	HUM 101	Humanities: Humanitas	3	_____	COM 101	Oral Communication	3
_____	EGR 100	Engineering/Physics Seminar	0	_____	EGR 100	Engineering/Physics Seminar	0
			17.5				17.5

JUNIOR Semester 5				JUNIOR Semester 6			
_____	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	_____	EGR 210	Network Analysis	3
_____	MAT 332	Biostatistics	3	_____	EGR 210	Network Analysis Lab	1
_____	EVR 350	Environmental Science	3	_____	EGR 231	Heat and Thermodynamics	3
_____	EVR 350	Environmental Science Lab	1	_____	EGR 222	Mechanics II: Dynamics	3
_____	EGR 221	Mechanics I: Statics	3	_____	EGR 100	Engineering/Physics Seminar	0
_____	EGR 100	Engineering/Physics Seminar	0				
			17.5				16.5

SENIOR Semester 7				SENIOR Semester 8			
_____	HPER _____	HPER Activity	0.5	_____	HPER _____	HPER Activity	0.5
_____	HIS 101	American History	3	_____	GOV 101	American Government OR	3
_____	BIO 310	Microbiology	3	_____		Social Science Elective	3
_____	BIO 310	Microbiology Lab	1	_____	EVE 410	Environmental Engineering	3
_____	ME 321	Mechanics of Materials	3	_____	ME 441	Fluid Mechanics	3
_____	EGR 461	Engineering Management & Econ	2	_____	EGR 499	Senior Design & Research II	2
_____	EVE 420	Hydrology	3	_____	EGR 100	Engineering/Physics Seminar	0
_____	EGR 498	Senior Design & Research I	2				
_____	EGR 100	Engineering/Physics Seminar	0				
			17.5				14.5

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 of Science in Environmental Engineering (EGRV)

2009-2010

Concentration: None

<u>General Education</u>			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 (PHY 111 lecture and lab)			4
Calculus I (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
<u>General Education Total</u>			<u>56</u>
<u>Cognate</u>			
MAT	202	Calculus II	4
MAT	211	Differential Equations	3
MAT	323	Biostatistics	3
<u>Cognate Total</u>			<u>10</u>
<u>Major</u>			
PSC	201	Earth Science (lecture & lab)	4
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	232	Heat and Thermodynamics	3
EGR	252	Engineering Computational Methods	3
EGR	461	Engineering Management and Economy	2
EGR	498	Senior Design and Research I	2
EGR	499	Senior Design and Research II	2
EVR	350	Environmental Science	4
ME	321	Mechanics of Materials	3
ME	441	Fluid Mechanics	3
EVE	420	Hydrology	3
EVE	410	Environmental Engineering	3
EGR	100	Engineering/Physics Seminar	0
CHE	112	General Chemistry II (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	310	Microbiology (lecture & lab)	4
<u>Major Total</u>			<u>70</u>
<u>Degree Total</u>			<u>136</u>

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