DEGREE: Bachelor of Science in Engineering

MAJOR: Engineering—Computer

Engineering Concentration (EGR/CEC)

Name									<u>.</u>	
Z# Telephone				Date					-	
				Email					-	
Advisor_									-	
SEMESTE TAKEN	R COURSE CODE	=	COURSE TITLE		CREDIT HOURS	SEMESTER TAKEN	COURSI CODE	-	COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 1						FRESHMAN Semester 2	
	COMP	102	Reading/Writing in Liberal Arts*		3		COM	101	Oral Communication	3
	THE	103	Spirit-Empowered Living		3		HUM	103	Christian Worldview and Culture	3
	MAT	201	Calculus I++		4		MAT	202	Calculus II	4
	CHE	111	General Chemistry I		3		PHY	111	Physics I++	3
	CHE		General Chemistry I Lab		1		PHY	111L	,	1
	EGR	101	Introduction to Engineering		2		EGR	140	Engineering Graphics	2
	EGR	100	Engineering/Physics Seminar		0		EGR	100	Engineering/Physics Seminar	0
	GEN	099	Whole Person Assessment		0		HPE	002	Health Fitness II	1
·	PRF	070	Swimming Proficiency		0					17
	HPE	001	Health Fitness I		1 17					
			SOPHOMORE Semester 3						SOPHOMORE Semester 4	
			Social Sciences Elective+		3		MAT	211	Differential Equations	3
	PHY	112	Physics II		3		EGR	210	Network Analysis I	3
	PHY		Physics II Lab		1		EGR		Network Analysis I Lab	1
	CSC	111	Introduction to Computing		3		EGR	231	Heat and Thermodynamics	3
	EGR BLIT	221 110	Mechanics I: Statics Survey of Old Testament Literature		3 3		CSC CMPE	255 340	Data Structures Digital Systems Design	3 3
	EGR	100	Engineering/Physics Seminar		0		CMPE	340 340L		3 1
	HPE	100	HPE Activity^		0.5		EGR	100	Engineering/Physics Seminar	0
					16.5		HPE		_HPE_Activity^	0.5
						SUMMER				17.5
							BLIT	120	Survey of New Testament Literature	3
							HUM		Humanities Options+++	3
			JUNIOR Semester 5						JUNIOR Semester 6	
	MAT	321	Calculus of Functions of Several Va	ariable			COMP	303	Critical Reading and Writing	3
	HUM	444	Humanities Options+++		3		HUM		Humanities Options+++	3
	CMPE EE	441 321	Microprocessor Systems Design Electronics I		3 3		MAT EE	322	_Math Elective (Upper Division) Electronics II	3 3
	EE		Electronics I Lab		1		EE		Electronics II Lab	1
		02.2	Technical Elective		3		CMPE	443	Computer Architecture	3
	EGR	100	Engineering/Physics Seminar		0		EGR	100	Engineering/Physics Seminar	0
	HPE		HPE Activity^		0.5		HPE		HPE Activity^	0.5
					17.5					16.5
		101	SENIOR Semester 7	_	0			101	SENIOR Semester 8	_
	HIS EGR	101 461	American History EGR Management and Economy		3		GOV PHY		American Government	3
	EGK	461	Technical Elective		2 3		PHY	211 211	Modern Physics Modern Physics Lab	3
			Technical Elective		3			211L	Technical Elective	3
	EGR	498	Senior Design and Research I		2				Technical Elective	3
	EGR	100	Engineering/Physics Seminar		0		EGR	499	Senior Design and Research II	2
	HPE		_HPE Activity^		0.5		EGR	100	Engineering/Physics Seminar	0
					13.5		HPE		HPE Activity^	0.5
										15.5

* 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)

++ Students who need Precalculus in semester I should take Calculus I in the spring and Physics I in the summer.

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

A HPE courses are 1 credit hour each, but students can petition to take them for .5 credits. Course work remains the same.

BS in Engineering - Computer Engineering Concentration (EGR/CEC)

General Educa	Credit Hours 0									
Whole Person Assessment (GEN 099)										
English (COMP 102, 303) Oral Communication (COM 101)										
	Humanities (HUM 103 plus three of the following: HUM 222*, 233*, 244*, 250, 255, 260, 270, 333*,									
COMP 101) *At least one course must be chosen from courses marked with asterisks.										
Biblical Literature (BLIT 110, 120)										
Theology (THE 103)										
Chemistry (CHE 111 lecture)										
Chemistry (CHE 111L lab)										
Physics (PHY 111 lecture) Physics (PHY 1111 leb)										
Physics (PHY 111L lab)										
Mathematics (MAT 201)										
American History (HIS 101)										
American Government (GOV 101)										
Social Sciences Elective (Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101, SOC 201, SOC 323, BUS 201 or FIN 244-recommended.)										
		on, and Recreation (one course per full-time semester at ORU, including	5							
		2, swimming course or proficiency, and electives.)								
	Ji and 00	General Education Total	EC							
Maiar		General Education Total	56							
Major	100	Engineering/Dhysics Comingr	0							
EGR	100	Engineering/Physics Seminar	0							
EGR	101	Introduction to Engineering	2							
EGR	140	Engineering Graphics	2							
EGR	210	Network Analysis I (lecture)	4							
EGR	210L	Network Analysis I (lab)	2							
EGR EGR	221 231	Mechanics I: Statics	3 3							
		Heat and Thermodynamics								
EGR	461	Engineering Management and Economy	2 2							
EGR	498	Senior Design and Research I	2							
EGR	499	Senior Design and Research II	2 4							
PHY	112	Physics II (lecture and lab)								
CSC	111	Introduction to Computing Major Total	<u> </u>							
-	-	eering Concentration (CE)	_							
PHY	211	Introduction to Modern Physics (lecture and lab)	4							
CSC	255	Data Structures	3							
CMPE	340	Digital Systems Design (lecture and lab)	4							
CMPE	441	Microprocessor Systems Design	3							
CMPE	443	Computer Architecture	3							
EE	321	Electronics I (lecture and lab)	4							
EE	322	Electronics II (lecture and lab)	4							
Choice	of five of	the following technical elective courses:	15							
CMPE	312	Computer Networks and Communications								
CMPE	450	Special Topics: Artificial Intelligence								
EE	311	Network Analysis II								
EE	325	Design with Standard Components								
EE	450	Special Topics: Digital Signal Processing								
EGR	330	Control Systems								
		Occurrent on Francisco Occurrent of the Francisco								
0	_	Computer Engineering Concentration Total	40							
			4							
MAT	202	Calculus II	4							
MAT	211	Differential Equations	3							
MAT	321	Calculus of Functions of Several variables	4							
MAT		Elective (upper division)	<u> </u>							
		Cognate Total	14							
		Degree Total	137							
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*All students must pass the seminar course each semester they are enrolled in this major.