DEGREE: Bachelor of Science in Engineering

## MAJOR: Engineering—Computer

**Engineering Concentration (EGR/CEC)** 

TOTAL HOURS REQUIRED	138
Hours in Major	27
Hours in Concentration	40
Hours in Cognate	14
Hours in General Education	57

Name									_	
Z#				Date					_	
Telephon	е			Email					-	
Advisor									-	
SEMESTER TAKEN	R COURSI CODE	Ξ	COURSE TITLE		CREDIT HOURS	SEMESTER TAKEN	COURSI CODE	Ξ	- COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 1						FRESHMAN Semester 2	
	COMP	102	Composition II*		3		СОМ	101	Oral Communication	3
	THE	102	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		Physics I Lab++	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	150	Intro to Whole Person Education		1		HPE	001	Health Fitness I	1
	PRFH	070	Swimming Proficiency		0		HFE.	001	Health Filless I	17
	r Ni Ti	070	Swimming Pronciency		17					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	112L	Physics II Lab		1		EGR	210L	Network Analysis I Lab	1
	EGR	252	Engineering Computational Metho	ods	3		EGR	231	Heat and Thermodynamics	3
	EGR	221	Mechanics I: Statics		3		CSC	206	Intermediate Programming	3
	BLIT	110	Survey of Old Testament Literatur	re	3		CMPE	340	Digital Systems Design	3
	EGR	100	Engineering/Physics Seminar		0		CMPE	340L	<b>o i</b>	1
	HPE	002	Health Fitness II		1		EGR	100	Engineering/Physics Seminar	0
					17		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 III		4		COMP	303	Critical Reading and Writing	3
	HUM		Humanities Options+++		3		HUM		Humanities Options+++	3
	CMPE	441	Microprocessor Systems Design		3		MAT		Math Elective (Upper Division)	3
	EE	321	Electronics I		3		EE	322	Electronics II	3
	EE	321L	Electronics I Lab		1		EE		Electronics II Lab	1
			Technical Elective		3		CMPE	443	Computer Architecture	3
	EGR	100	Engineering/Physics Seminar		0		EGR	100	Engineering/Physics Seminar	0
<u> </u>	HPE		HPE Activity^		0.5		HPE		_HPE Activity^	0.5
					17.5					16.5
		101	SENIOR Semester 7		2		<u> </u>	101	SENIOR Semester 8	2
	HIS	101	American History		3		GOV		American Government	3
	EGR	461	EGR Management and Economy		2		PHY PHY	211	Introduction to Modern Physics Introduction to Modern Physics Lab	3
			Technical Elective Technical Elective		3 3			ZIIL	Technical Elective	1
	EGP	100	Senior Design and Research I						=	3 3
<u> </u>	EGR EGR	498 100	Engineering/Physics Seminar		2 0		EGR	/00	_Technical Elective Senior Design and Research II	3 2
<u> </u>	HPE	100	HPE Activity^				EGR		-	
	NFE				0.5		PRFR	100 001	Engineering/Physics Seminar FE Exam Proficiency	0 0
					13.3		HPE	001	HPE Activity <sup>^</sup>	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)

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

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

			2017-2018				
BS in Er	ngineer	ing - Com	puter Engineering Concentration (EGR/CEC)				
General				Credit Hours			
			son Education (GEN 150)	1			
		102, 303)		6			
		ation (CON		3 12			
Humanities (HUM 103 plus three of the following: HUM 222*, 233*, 244*, 250, 255, 260, 270, 333*,							
			east one course must be chosen from courses marked with asterisks.				
			s for students who have not yet taken COMP 102.				
		e (BLIT 11	10, 120)	6			
Theology	3						
	•	111 lectu	,	4			
	•	111L lab	,				
•		11 lecture)		4			
Physics							
Mathema				4			
		y (HIS 101		3			
		rnment (G		3			
			Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101,	3			
			3, BUS 201 or FIN 244-recommended.)	_			
			n, and Recreation (one course per full-time semester at ORU, including	5			
Н	IPE 00	1 and 002	2, swimming course or proficiency, and electives.)				
			General Education Total	57			
	lajor						
	GR	100	Engineering/Physics Seminar	0			
	GR	101	Introduction to Engineering	2			
	GR	140	Engineering Graphics	2			
	GR	210	Network Analysis I (lecture)	4			
	GR	210L	Network Analysis I (lab)	_			
	GR	221	Mechanics I: Statics	3			
	GR	231	Heat and Thermodynamics	3			
	GR	461	Engineering Management and Economy	2			
	GR	498	Senior Design and Research I	2			
	GR	499	Senior Design and Research II	2			
	RFR	001	FE Exam Proficiency	0			
	ΗY	112	Physics II (lecture and lab)	4			
E	GR	252	Engineering Computational Methods	3			
			Major Total	27			
	-		ering Concentration (CE)				
	ΗY	211	Introduction to Modern Physics (lecture and lab)	4			
	SC	206	Intermediate Programming	3			
	MPE	340	Digital Systems Design (lecture and lab)	4			
	MPE	441	Microprocessor Systems Design	3			
	MPE	443	Computer Architecture	3			
E		321	Electronics I (lecture and lab)	4			
E	E	322	Electronics II (lecture and lab)	4			
			he following technical elective courses:	15			
	MPE	312	Computer Networks and Communications				
	MPE	450	Special Topics: Artificial Intelligence				
E		311	Network Analysis II				
E		325	Design with Standard Components				
E		450	Special Topics: Digital Signal Processing				
	GR	330	Control Systems				
С	SC	255	Data Structures				
-			Computer Engineering Concentration Total	40			
	ognate						
	IAT	202	Calculus II	4			
	IAT	211	Differential Equations	3			
	IAT	321	Calculus III	4			
M	1AT		Elective (upper division)	3			
			Cognate Total	14			

\*All students must pass the seminar course each semester they are enrolled in this major. EGR-CEC Degree Plan Sheet 2017-18.xls Revised 6/19/2017

Degree Total

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