ORAL RO				DEGREE PLAN SHEET 2018-2019				TOTAL HOURS REQUIRED	129
DEGREE:	Bachel	or of	Science in Engineering	Engineering Department				Hours in Major	27
MAJOR:	Engine	ering	—Mechanical					Hours in Concentration	36
			Concentration (EGR/MEC)					Hours in Cognate	18
Name								Hours in General Education	48
Z#								Tiodio III Conordi Eddeallon	—
Telephone									
Advisor									
SEMESTER TAKEN	COURSE COURSE TITLE		CREDIT			E		CREDIT	
			COURSE TITLE	HOURS	TAKEN	CODE		COURSE TITLE	HOURS
			FRESHMAN Semester 1					FRESHMAN Semester 2	
	COMP	102	Composition II*	3		THE	105	Spirit-Empowered Living II	2
	THE	104	Spirit-Empowered Living I	2		COM	101	Oral Communication	3
	MAT	201	Calculus I++	4	-	MAT	202	Calculus II	4
	CHE	111	General Chemistry I	3	2	PHY	111	Physics I++	3
-	CHE		General Chemistry I Lab	1	-	PHY		Physics I Lab++	1
	EGR	100	Engineering/Physics Seminar	0		EGR	100	Engineering/Physics Seminar	0
	EGR	101	Introduction to Engineering	2	-	EGR	140	Engineering Graphics	2
	GEN	150	Intro to Whole Person Education	1	-	HPE	155	Health Fitness	1
	PRFH	070	Swimming Proficiency	0 16					16
			SOPHOMORE Semester 3					SOPHOMORE Semester 4	
	BLIT	111	Bible I: Old Testament	2		BLIT	122	Bible II: New Testament	•
*****	MAT	321	Calculus III	4	-	MAT	211	Differential Equations	2
	PHY	112	Physics II	3		EGR	100	Engineering/Physics Seminar	3
-	PHY	112L	-	1	-	EGR	225	Circuits and Electronics	0 3
	EGR	100	Engineering/Physics Seminar	Ö	-	EGR		Circuits and Electronics Circuits and Electronics Lab	3
	EGR	221	Mechanics I: Statics	3	-	EGR	222	Mechanics II: Dynamics	1
	EGR	252	Engineering Computational Method			EGR	231	Heat and Thermodynamics	3
	HPE		_ HPE Activity^	_ 0.5		HPE	201	HPE Activity [^]	3 0.5
	–		,	16.5	-			_TILE MORNINY	15.5
			JUNIOR Semester 5	_				JUNIOR Semester 6	
	111.13.4	-	Social Sciences Elective+	3	-	HUM		_ Humanities Options+++	3
	HUM	204	_ Humanities Options+++	3		MAT	312	Linear and Matrix Algebra	3
	ME	321	Mechanics of Materials	3	-	ME	381	Principles of Design	3
	ME	331	Applied Thermodynamics	3	-	ME	441	Fluid Mechanics	3
	EGR	100	Engineering/Physics Seminar	0	-	ME	444	Experimental Methods	3
	MAT	325	Probability and Statistics	3	-	EGR	100	Engineering/Physics Seminar	0
	HPE		_ HPE Activity^	0.5	-	COMP	303	Critical Reading and Writing	3
				15.5		HPE		_ HPE Activity^	0.5
									18.5
	00.//.!!	,	SENIOR Semester 7					SENIOR Semester 8	
9	GOV/HI		_Civics Elective ***	3	-		101	Foreign Language	3
-	EGR	330	Control Systems	3			400	Technical Elective**	3
	ME	447	Finite Element Method	3	2	ME		Heat Transfer	3
	ME	461	Manufacturing Processes	3		EGR	100	Engineering/Physics Seminar	0
	EGR	100	Engineering/Physics Seminar	0	-	FOR	400	Technical Elective**	3
	EGR	461	Engineering Management and Ecol	•	-	EGR		Senior Design and Research II	2
	EGR HPE	498 400	Senior Design & Research I	2	-	PRFR	001	FE Exam Proficiency	0
	HE	400	Lifelong Wellness [^]	0.5 16.5	-	HPE		_ HPE Activity^	0.5

++ Students who need Trigonometry in semester 1 should take Calculus I in the spring and Physics I in the summer.

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

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.

⁺ 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)

^{**} EGR 321 Design of Control Systems, ME 371 Theory of Machines and Mechanisms, or ME 450 Special Topics

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

^{***} See list of Civics options on the back.

0 151			Credit Hours				
General Education							
Introduction to Whole Person Education (GEN 150) Counts as HPE Activity							
Composition (COMP 102, 303)							
Oral Communication (COM 101) Humanities (HLIM 201*, 202*, 203*, 204*, 333, APT 103, 104, 207; DAND 125; DRAM 215, 204; MUS 300)							
Humanities (HUM 201*, 202*, 203*, 204*; 333, ART 103, 104, 307; DANP 125; DRAM 215, 304; MUS 300) * At least one course must be chosen from courses marked with asterisks.							
Civics (GOV 101, GOV 103, HIS 110, HIS 111, or HIS 200)							
Foreign Language (101, 102, 203 or 204)							
Biblical Literacy (BLIT 111, 122)							
Theology (THE 104, 105)							
Chemistry (CHE 111 lecture and lab)							
Physics (PHY 111 lecture and lab)							
Mathematics (MAT 325)							
		Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101,	3				
		3, BUS 201 or FIN 244-recommended.)	4				
Health Science (one course per full-time semester at ORU, including							
HPE 1	55 and 400	, swimming course or proficiency, and electives.)					
		General Education Total	48				
Major	400	F : ' 'B' : 0 !	_				
EGR	100	Engineering/Physics Seminar	0				
EGR	101	Introduction to Engineering	2				
EGR	140	Engineering Graphics	2				
EGR	225	Circuits and Electronics (lecture and 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				
PRFR	001	FE Exam Proficiency	0				
PHY	112	Physics II (lecture and lab)	4				
EGR	252	Engineering Computational Methods	3				
Masha	-i!-	Major Total	27				
EGR	nicai Engin 222	neering Concentration	•				
		Mechanics II: Dynamics	3				
EGR ME	330	Control Systems	3				
ME	321 331	Mechanics of Materials	3				
ME	381	Applied Thermodynamics	3				
ME	433	Principles of Design Heat Transfer	3 3				
ME	433 441	Fluid Mechanics					
ME	444	Experimental Methods	3				
ME	447	Finite Element Method	3				
ME	461	Manufacturing Processes	3 3				
IVIL	701	Manuacturing 1 rocesses	3				
Choice	of two of t	the following technical elective courses:	6				
EGR	331	Design of Control Systems					
ME	371	Machines and Mechanisms					
ME	450	Special Topics					
		Mechanical Engineering Concentration Total	36				
Cognat	te		30				
MAT	201	Calculus I	4				
MAT	202	Calculus II	4				
MAT	211	Differential Equations	3				
MAT	312	Linear and Matrix Algebra	3				
MAT	321	Calculus III	4				
Cognate Total							
· ·							
		Degree Total	129				
*All etudente n	nuet nace th	as comings course each competer they are enrelled in this major					

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