ORAL ROBERTS UNIVERSITY
DEGREE: **Bachelor of Science**
MAJOR: **Mathematics (MAT)**
CONCENTRATION: NA

DEGREE PLAN SHEET 2016-2017

Computing and Mathematics Department

"Degree in Three"

TOTAL HOURS REQUIRED	127
Hours in general education	55
Hours in major	30
Hours in cognate	6
Hours in minor	18
Hours in electives	18

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

SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 1	
	MAT	201	Calculus I	4
	COMP	102	Composition II	3
	CSC	111	Introduction to Computing	3
	HUM	103 **	Christian Worldview & Culture	3
	THE	103	Spirit-Empowered Living	3
	PRFH	070	Swimming Proficiency	0
	HPE	001	Health Fitness I	1
	GEN	099 **	Whole Person Assessment	0
				17

******Required first semester for all Freshmen

SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 2	
	COMP	303	Critical Reading & Writing	3
	MAT	202	Calculus II	4
	COM	101 **	Oral Communication	3
	____	111	Laboratory Science	4
	CSC	206	Intermediate Programming	3
	HPE	002	Health Fitness II	1
				18

			SUMMER	
	HUM	____	Humanities Option I	3
	BLIT	110	Survey of Old Testament Literature	3
	HIS	101	American History	3
	____	____	Social Sciences Elective	3
				12

			Semester 3	
	MAT	207	Discrete Mathematics	3
	MAT	321	Calculus III	4
	_____	112	Laboratory Science	4
	_____	____	Minor	3
	_____	____	Elective	3
	HPE	026	Beginning Swimming[3] OR	0.5
	HPE	____	HPE Activity	
				17.5

			Semester 4	
	MAT	312	Linear & Matrix Algebra	3
	MAT	211	Differential Equations	3
	MAT	____	Mathematics Elective	3
	_____	____	Minor	3
	_____	____	Minor	3
	HPE	____ ^	HPE Activity	0.5
	MAT	498	Senior Paper Preperation	1
				16.5

[3]If swimming proficiency (PRFH 070) NOT yet passed

			SUMMER	
	HUM	____	Humanities Option II	3
	HUM	____	Humanities Option III	3
	GOV	101	American Government	3
	BLIT	120	Survey of New Testament Lit.	3
				12

			Semester 5	
	MAT	499	Senior Paper	2
	MAT	____	Mathematics Elective	3
	_____	____	Elective	3
	_____	____	Elective	3
	_____	____	Elective	3
	HPE	____ ^	HPE Activity	1
	_____	____	Minor	3
				18

			Semester 6	
	MAT	____	Mathematics Elective	3
	_____	____	Minor	3
	_____	____	Minor	3
	_____	____	Elective	3
	_____	____	Elective	3
	HPE	____ ^	HPE Activity	1
				16

==========

Recommended Laboratory Science General Education Requirement:
BIO 111, 112 (Biology--No prerequisite)
CHE 111, 112 (Chemistry--High School Chemistry prerequisite)
PHY 111, 112 (Physics--Calculus prerequisite/corequisite. This is strongly recommended.)

Student must take two of the following: Advanced Calculus I (MAT 421), Higher Algebra (MAT 401) and Probability and Statistics (MAT 325). (They should be taken as early as possible so the courses will be available as needed.)
Courses above calculus are offered according to the following schedule:

Differential Equations (MAT 211)	Spring of each year	Discrete Mathematics (MAT 207)	Fall of each year
Linear and Matrix Algebra (MAT 312)	Spring of each year	Senior Paper/Proj Prep (MAT 498)	Spring of each year
College Geometry (MAT 313)	Fall of odd numbered years	Higher Algebra (MAT 401)	Spring of even numbered years
Elementary Number Theory (MAT 318)	Fall of even numbered years	Advanced Calculus I (MAT 421)	Spring of odd numbered years
Probability and Statistics (MAT 325)	Fall of each year	Senior Paper/Project (MAT 499)	Fall of each year
Mathematical Methods in Physics (PHY 455)[F**]			

^Each HPE course is 1 credit hour, but students can petition to take them for .5 credits. Course work remains the same.

2016-2017

B.S. in Mathematics (MAT) "Degree in Three"

General Education	**Credit Hours**	**Semester to be taken**
Whole Person Assessment (GEN 099)	0	1
English (COMP 102, 303)	6	1,2
Oral Communication (COM 101)	3	2
[5]Humanities (HUM 103 plus three of the following: HUM 222*, 233*, 244*, 333*, 250, 255, 260, 270, COMP 101^, MAT 315) *At least one course must be chosen from courses marked with asterisks. ^Can count for humanities for students who have not yet taken COMP 102.	12	1,2.5,4.5,4.5
Discrete Mathematics (MAT 207)	3	3
Bible Literature (BLIT 110, 120)	6	2.5,4.5
Theology (THE 103)	3	1
Laboratory Science	8	
Choice of one of the following sequences:		
BIO 111, 112 (lecture & lab) OR		2,3
CHE 111, 112 (lecture & lab) OR		2,3
PHY 111, 112 (lecture & lab)		2,3
American History (HIS 101)	3	2.5
American Government (GOV 101)	3	4.5
Social Sciences (Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101, SOC 201, SOC 323, BUS 201, or FIN 244)	3	2.5
Health, Physical Education and Recreation (one course per full-time semester at ORU, including HPE 001 and 002, swimming course or proficiency, and electives)**	5	Each
General Education Total	**55**	
Major		
Calculus I (MAT 201)	4	1
Calculus II (MAT 202)	4	2
Differential Equations (MAT 211)	3	4
Senior Paper/Project Preparation (MAT 498)	1	4
Linear and Matrix Algebra (MAT 312)	3	4
Calculus III (MAT 321)	4	3
Choice of two of the following four courses:	6	
Probability and Statistics (MAT 325)		4,5,6
Higher Algebra (MAT 401)		4,5,6
Advanced Calculus (MAT 421)		4,5,6
Mathematical Methods in Physics (PHY 455)		5
Mathematics Elective (MAT 300-400)[4]	3	4,5,6
Senior Paper/Project (MAT 499)	2	5
[4]Biostatistics (MAT 332) does not count toward a major or minor in mathematics.		
Major Total	30	
Cognate		
Introduction to Computing (CSC 111)	3	1
Intermediate Programming (CSC 206)	3	2
Cognate Total	**6**	
Minor	**18**	4,5,6
Electives	**18**	4,5,6
Degree Total	**127**	

Mathematics Minor (MAT)

SEMESTER TAKEN	**COURSE CODE**		**COURSE TITLE**	**CREDIT HOURS**
_____	MAT	201	Calculus I	4
_____	MAT	202	Calculus II	4
_____	MAT	207	Discrete Mathematics	3
_____	MAT	312	Linear and Matrix Algebra	3
_____	MAT	_____	Elective (MAT 300 level or above)	3
	Minor Total			**17**

**Each HPE course is 1 credit hour, but students can petition to take it for .5 credits. Course work remains the same.