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

DEGREE PLAN SHEET 2016-2017
Mathematics Major
Computing and Mathematics Department

TOTAL HOURS REQUIRED	128
Hours in general education	55
Hours in major	30
Hours in cognate	6
Hours in minor	18
Hours in electives	19

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

SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 1	
	COMP	102	Composition II	3
	HUM	103	Christian Worldview & Culture	3
	MAT	201	Calculus I	4
	CSC	111	Introduction to Computing	3
	THE	103	Spirit-Empowered Living	3
	GEN	099	Whole Person Assessment	0
	PRFH	070	Swimming Proficiency	0
	HPE	001	Health Fitness I	1
				17
			FRESHMAN Semester 2	
		111	Laboratory Science[1]	4
	HUM		Humanities Options[5]	3
	MAT	202	Calculus II	4
	CSC	206	Intermediate Programming	3
			Social Sciences Elective[2]	3
	HPE	002	Health Fitness II	1
				18
			SOPHOMORE Semester 3	
	HUM		Humanities Options[5]	3
	HIS	101	American History	3
	MAT	207	Discrete Mathematics (Gen Ed)	3
		112	Laboratory Science	4
	BLIT	110	Survey of Old Testament Literature	3
	HPE	026	Beginning Swimming[3] **OR**	0.5
	HPE		^ HPE Activity	
				16.5
			SOPHOMORE Semester 4	
	COM	101	Oral Communication	3
	HUM		Humanities Options[5]	3
	GOV	101	American Government	3
	MAT	312	Linear and Matrix Algebra	3
	BLIT	120	Survey of New Testament Literature	3
	HPE		^ HPE Activity	0.5
				15.5
			JUNIOR Semester 5	
	MAT	321	Calculus III	4
			Elective	3
			Minor	3
			Elective	3
			Elective	3
	HPE		^ HPE Activity	0.5
				16.5
			JUNIOR Semester 6	
	COMP	303	Critical Reading & Writing	3
	MAT	211	Differential Equations	3
			Minor	3
			Minor	3
	MAT		Mathematics Elective	3
	MAT	498	Senior Paper/Project Preparation	1
	HPE		^ HPE Activity	0.5
				16.5
			SENIOR Semester 7	
	MAT	499	Senior Paper/Project	2
			Minor	3
			Elective	3
			Elective	3
	MAT		Mathematics Elective	3
	HPE		^ HPE Activity	0.5
				14.5
			SENIOR Semester 8	
			Minor	3
			Minor	3
	MAT		Mathematics Elective	3
			Elective	3
			Elective	1
	HPE		^ HPE Activity	0.5
				13.5

[1]PHY 111 recommended (followed by PHY 112). If science sequence other than Physics 111 and 112 is selected, take Oral Communication in semester 2 and second science class in semester 4.
[2]Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101, SOC 201, SOC 323, BUS 201, or FIN 244
[3]If swimming proficiency (PRFH 070) NOT yet passed.
[5]See list of Humanities (HUM) options on the back.

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

Courses above calculus are offered according to the following schedule (S - Spring, F - Fall, * Even years only, ** Odd years only):
Differential Equations (MAT 211)[S]
Linear and Matrix Algebra (MAT 312)[S]
College Geometry (MAT 313)[F]**
Elementary Number Theory (MAT 318)[F]*
Probability and Statistics (MAT 325)F
Mathematical Methods in Physics (PHY 455)[F]**
Discrete Mathematics (MAT 207)[F]
Senior Paper/Project Prep. (MAT 498)[S]
Higher Algebra (MAT 401)[S]*
Advanced Calculus I (MAT 421)[S]**
Senior Paper/Project (MAT 499)[F]

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

2016-2017
B.S. in Mathematics (MAT)

General Education	**Credit Hours**	**Semester to be taken**
Whole Person Assessment (GEN 099)	0	1
English (COMP 102, 303)	6	1,6
Oral Communication (COM 101)	3	2,4
[5]Humanities (HUM 103 plus three of the following: HUM 222*, 233*, 244*, 333*,250, 255, 260, 270, COMP 101^, MAT 315)	12	1, 2, 3, 4
*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.		
Discrete Mathematics (MAT 207)	3	5
Bible Literature (BLIT 110, 120)	6	1,3,4
Theology (THE 103)	3	1,3,4
Laboratory Science	8	
Choice of one of the following sequences:		
BIO 111, 112 (lecture & lab) **OR**		3, 4
CHE 111, 112 (lecture & lab) **OR**		3, 4
PHY 111, 112 (lecture & lab)		2, 3
American History (HIS 101)	3	3
American Government (GOV 101)	3	4
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
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	6
Linear and Matrix Algebra (MAT 312)	3	4
Calculus III (MAT 321)	4	5
Choice of two of the following four courses:	6	
Probability and Statistics (MAT 325)		6 or 8
Higher Algebra (MAT 401)		6 or 8
Advanced Calculus (MAT 421)		6 or 8
Mathematical Methods in Physics (PHY 455)		5 or 7
Mathematics Elective (MAT 300-400)[4]	3	5, 6, 7, 8
Senior Paper/Project Preparation (MAT 498)	1	6
Senior Paper/Project (MAT 499)	2	7
[4]MAT 332 (Biostatistics) does not count toward a major or minor mathematics.		
Major Total	**30**	
Cognate		
Introduction to Computing (CSC 111)	3	1
Intermediate Programming (CSC 206)	3	2
Cognate Total	**6**	
Minor	**18**	5, 6, 7, 8
Electives	**19**	5, 6, 7, 8
Degree Total	**128**	

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