

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

DEGREE PLAN SHEET 2013-2014
**Engineering, Computing, Physics 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 _____
Z# _____ Date _____
Phone _____ Email _____
Advisor _____

SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS
FRESHMAN Semester 1				FRESHMAN Semester 2			
_____	COMP 102	Reading/Writing in Liberal Arts	3	_____	111	Laboratory Science ¹	4
_____	HUM 103	Christian Worldview and Culture	3	_____	HUM _____	Humanities Options ⁵	3
_____	MAT 201	Calculus I	4	_____	MAT 202	Calculus II	4
_____	CSC 111	Introduction to Computing	3	_____	CSC 255	Data Structures	3
_____	THE 103	Spirit-Empowered Living	3	_____	_____	Social Sciences elective ²	3
_____	GEN 099	Whole Person Assessment	0	_____	HPE 002	Health Fitness II	1
_____	HPE 001	Health Fitness I	1				18
			17				

¹PHY 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.

²Choice of one of the following: PSY 201, MUS 208, SWK 202, SOC 101, SOC 201, SOC 323, BUS 201, or FIN 244

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	HUM _____	Humanities Options ⁵	3	_____	COM 101	Oral Communication	3
_____	HIS 101	American History	3	_____	HUM _____	Humanities Options ⁵	3
_____	MAT 207	Discrete Mathematics (Gen Ed)	3	_____	GOV 101	American Government	3
_____	_____ 112	Laboratory Science	4	_____	MAT 312	Linear and Matrix Algebra	3
_____	BLIT 110	Survey of Old Testament Literature	3	_____	BLIT 120	Survey of New Testament Literature	3
_____	HPE 026	Beginning Swimming ³ OR		_____	HPE _____	HPE Activity^	0.5
_____	HPE _____	HPE Activity^	0.5				15.5
			16.5				

³If swimming proficiency (PRF 070) NOT yet passed

⁵See list of Humanities (HUM) options on the back.

JUNIOR Semester 5				JUNIOR Semester 6			
_____	MAT 321	Calculus of functions of Several Variables	4	_____	COMP 303	Critical Reading and Writing	3
_____	_____	Elective	3	_____	MAT 211	Differential Equations	3
_____	_____	Minor	3	_____	_____	Minor	3
_____	_____	Elective	3	_____	_____	Minor	3
_____	_____	Elective	3	_____	MAT _____	Mathematics Elective	3
_____	HPE _____	HPE Activity^	0.5	_____	MAT 300	Senior Paper/Project Preparation	1
			16.5	_____	HPE _____	HPE Activity^	0.5
							16.5

SENIOR Semester 7				SENIOR Semester 8			
_____	MAT 499	Senior Paper/Project	2	_____	_____	Minor	3
_____	_____	Minor	3	_____	_____	Minor	3
_____	_____	Elective	3	_____	MAT _____	Mathematics Elective	3
_____	_____	Elective	3	_____	_____	Elective	3
_____	MAT _____	Mathematics Elective	3	_____	_____	Elective	1
_____	HPE _____	HPE Activity^	0.5	_____	HPE _____	HPE Activity^	0.5
			14.5				13.5

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 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). (These 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 300)	Spring of each year
College Geometry (MAT 313)	Fall of EVEN numbered years	Higher Algebra (MAT 401)	Spring of EVEN numbered years
Elementary Number Theory (MAT 318)	Fall of ODD numbered years	Advanced Calculus I (MAT 421)	Spring of ODD numbered years
Probability and Statistics (MAT 325)	Spring of each year	Senior Paper/Project (MAT 499)	Fall of each year

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

2013-2014

BS in Mathematics (MAT)

			Credit Hours
General Education			
Whole Person Assessment (GEN 099)			0
English (COMP 102, COMP 303)			6
Oral Communication (COM 101)			3
⁵ Humanities (HUM 103 plus three of the following: HUM 222*, 233*, 244*, 333*, 250, 255, 260, 270, COMP 101)			12
*At least one course must be chosen from courses marked with asterisks.			
Discrete Mathematics (MAT 207)			3
Bible Literature (BLIT 110, 120)			6
Theology (THE 103)			3
Laboratory Science			8
Choice of one of the following sequences:			
BIO 111, 112 (lecture and lab)			
CHE 111, 112 (lecture and lab)			
PHY 111, 112 (lecture and lab)			
American History (HIS 101)			3
American Government (GOV 101)			3
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)			3
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
General Education Total			55
Major			
MAT	201	Calculus I	4
MAT	202	Calculus II	4
MAT	211	Differential Equations	3
MAT	300	Senior Paper/Project Preparation	1
MAT	312	Linear and Matrix Algebra	3
MAT	321	Calculus of Functions of Several Variables	4
Choice of two of the following courses:			6
MAT	325	Probability and Statistics	
MAT	401	Higher Algebra	
MAT	421	Advanced Calculus	
MAT	_____	Elective (MAT 300 or above)*	3
MAT	499	Senior Paper/Project	2
* MAT 332 Biostatistics does not count toward a major or minor in mathematics.			
Major Total			30
Cognate			
CSC	111	Introduction to Computing	3
CSC	255	Data Structures	3
Cognate Total			6
Minor			18
Electives			19
Degree Total			128