ORAL ROBERTS UNIVERSITY	**DEGREE PLAN SHEET 2014-2015**	TOTAL HOURS REQUIRED	128
DEGREE: **Bachelor of Science**	**Mathematical Finance Major**	Hours in general education	55
MAJOR: **Mathematical Finance (MFN)**	**Computing and Mathematics Department**	Hours in major	39
		Hours in cognate	27
		Hours in electives	7

Name _____

ID _____ Date _____

Telephone _____ 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
	ACT	215	Principles of Financial Accounting I	3		ACT	216	Principles of Financial Accounting II	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		FIN	244	Personal Financial Planning	3
	GEN	099	Whole Person Assessment	0		HPE	002	Health Fitness II	1
	HPE	001	Health Fitness I	1					18
				17					

[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.

SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS
			SOPHOMORE Semester 3					**SOPHOMORE Semester 4**	
	HUM	103	Christian Worldview & Culture	3		COM	101	Oral Communication	3
	BUS	201	Principles of Economics I	3		HUM		Humanities Options[5]	3
	MAT	232	Elementary Statistics (Gen Ed)	3		BUS	202	Principles of Economics II	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**	0.5		HPE	^	HPE Activity	0.5
	HPE	^	HPE Activity	0.5					15.5
				16.5					

[3]If swimming proficiency (PRF 070) NOT yet passed.   [5]See list of Humanities (HUM) options on the back.

SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS
			JUNIOR Semester 5					**JUNIOR Semester 6**	
	MAT	321	Calculus of Functions of Several Variables	4		COMP	303	Critical Reading & Writing	3
	HUM		Humanities Options[5]	3		MAT	211	Differential Equations	3
	HIS	101	American History	3		HUM		Humanities Options[5]	3
	MKT	130	Principles of Marketing	3		GOV	101	American Government	3
	FIN	418	Investments	3		MGT	130	Principles of Management	3
	HPE	^	HPE Activity	0.5		MAT	300	Senior Paper/Project Preparation[2]	1
				16.5		HPE	^	HPE Activity	0.5
									16.5

SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE		COURSE TITLE	CREDIT HOURS
			SENIOR Semester 7					**SENIOR Semester 8**	
	MAT	499	Senior Paper/Project	2		MGT	431	Strategic Management	3
	ACT	320	Quantitative Analysis	3		FIN	438	Advanced Financial Management	3
	FIN	338	Financial Management	3		MAT		Elective	3
	BUS	325	Business Law I	3				Elective	3
	MAT		Mathematical Finance 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)   PHY 111, 112 (Physics--Strongly recommended. Calculus prerequisite/corequisite)

CHE 111, 112 (Chemistry--High School Chemistry prerequisite)

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]	Discrete Mathematics (MAT 207)[F]
Linear and Matrix Algebra (MAT 312)[S]	Senior Paper/Project Prep. (MAT 300)[S]
College Geometry (MAT 313)[F**]	Higher Algebra (MAT 401)[S*]
Elementary Number Theory (MAT 318)[F*]	Advanced Calculus I (MAT 421)[S**]
Probability and Statistics (MAT 325)F	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.

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) *At least one course must be chosen from courses marked with asterisks.	12	3,4,5,6
Elementary Statistics (MAT 232)	3	3
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 (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

	Credit Hours	Semester to be taken
Introduction to Computing (CSC 111)	3	1
Data Structures (CSC 255)	3	2
Calculus I (MAT 201)	4	1
Calculus II (MAT 202)	4	2
Linear and Matrix Algebra (MAT 312)	3	4
Calculus of Functions of Several Variables (MAT 321)	4	5
Investments (FIN 418)	3	5
Differential Equations (MAT 211)	3	6
Senior Paper/Project Preparation (MAT 300)	1	6
Senior Paper/Project (MAT 499)	2	7
Financial Management (FIN 338)	3	7
Advanced Financial Management (FIN 438)	3	8
Mathematical Finance Elective: Choose one of the following courses[2]	3	
Probability and Statistics (MAT 325) F		5 or 7
Advanced Calculus (MAT 421) S**		6 or 8
Mathematical Methods in Physics (PHY 455) F**		5 or 7
Money and Banking Finance (FIN 303) F		5 or 7
Capital Markets (FIN 461) S		6 or 8
Major Total	39	

Cognate

	Credit Hours	Semester to be taken
Principles of Financial Accounting I (ACT 215)	3	1
Principles of Financial Accounting II (ACT 216)	3	2
Quantitatice Analysis (ACT 320)	3	7
Principles of Economics I (BUS 201)	3	3
Principles of Economics II (BUS 202)	3	4
Business Law I (BUS 325)	3	7
Principles of Management (MGT 130)	3	6
Strategic Management (MGT 431)	3	8
Principles of Marketing (MKT 130)	3	5
Cognate Total	27	
Electives	7	8
Degree Total	128	

[2]For students double majoring in Mathematical Finance and Quantitative Business Administration, an additional upper-division, three-credit-hour course must be taken, either from this list or with the approval of the department chair.

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