

BACHELOR OF SCIENCE: Proposed Curriculum 2012/2013
MAJOR: MATHEMATICS

FRESHMAN YEAR

		F	S
MATH 241, 242	Calculus I, II	3	3
PE OPT	2-100 Level Courses	1	1
or			
HE 101	Health	3	
ENG 104, 105	Composition	3	3
¹ SCI OPT	Science Option		3/4
HIST 101, 102	History of Civilization	3	3
² UNIV 100	University Success	2	
³ FORN LNG	Foreign Lang Option	3	3
	Totals	15-17	15-17

SOPHOMORE YEAR

MATH 243, 244	Calculus III, IV	3	3
MATH 303W	Set Theory & Logic		3
ENG 205	World Literature I	3	
or			
ENG 206	Literature of Science	3	
ART 206	Art Appreciation		3
or			
MUS 205	Music Appreciation		3
⁵ SS OPT	Social Science Option	3	
¹ SCI OPT	Science Options w Labs	4	5
CSC 118	Programming Fund		3
CSCL 118	Programming Fund Lab		1
	Totals	13	18

JUNIOR YEAR

MATH 355	Prob. & Statistics		3
MATH 331	Lin. Alg. & Matrix Thry.	3	
MATH 368	Ordinary Differential Eqs.	3	
MATH 321W	Modern Geometry		3
SPCH 201	Speech Arts	3	
ELEC	General Elective	3	3
⁴ MATH ELEC	Mathematics Elective		3
¹ SCI OPT	Science Option	3/4	
	Totals	15-16	12

SENIOR YEAR

MATH 311W	Abstract Algebra I	3	
MATH 351	Advanced Calculus	3	
MATH 403S	Mathematics Seminar		3
MATH 451	General Topology		3
PHIL 301	Intro. to Philosophy		3
or			
PHIL 416	Logic		3
ELEC	General Elective	3	6
⁴ MATH ELEC	Mathematics Elective	3	
¹ SCI OPT	Science Option	4/5	
	Totals	16-17	15

TOTAL HOURS: 120-124

APPROVED: Office of Academic Affairs

DATE: M 6/4/12

Science Options:

BIO 101 Biological Science and Lab
BIO 103 Environmental Science and Lab
BIO 105 Introductory Botany and Lab
BIO 106 Marine Science and Lab
BIO 107 Introduction to Zoology and Lab
BIO 111 Introduction to Biology and Lab
SCI 201 or 202 Physical Science and Lab
SCI 205 Earth and Space Science
CHEM 201 Chemistry and Society and Lab
CHEM 131 Introduction to Chemistry and Lab
CHEM 141 or 142 General Chemistry I or II and Labs
PHY 151 Introduction to Physics
PHY 201 or 202 Basic Physics I or II and Labs
PHY 211 or 212 General Physics I or II and Labs
PHY 241 Introduction to Astronomy
MET 200 Introduction to Meteorology

Foreign Language Options:

FR 101 & 102 Elementary French
GR 101 & 102 Elementary German
SP 101 & 102 Elementary Spanish
LAT 101 & 102 Elementary Latin
POR 101 & 102 Elementary Portuguese
CHI 101 & 102 Mandarin Chinese

Concentration-Specialization Courses:**Pure Mathematics**

Algebra
Analysis
Complex Variables
Geometry
Number Theory
Set Theory and Logic

Applied Mathematics

Differential Equations
Financial Mathematics
Mathematical Modeling
Numerical Analysis
Operations Research
Probability and Statistics