

**BACHELOR OF SCIENCE:
MATHEMATICS MAJOR**

FRESHMAN YEAR		F	S
MATH 231, 232	Calculus I, II	4	4
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
HIST 101, 102	History of Civilization	3	3
² UNIV 100	University Success	2	
³ FORN LNG	Foreign Lang Option	3	3
Totals 16-18		17	

SOPHOMORE YEAR

MATH 233	Calculus III	4	
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
CSC 118	Programming Fund Lab		1
Totals		14	15

JUNIOR YEAR

MATH 355	Probability		3
MATH 331	Lin. Alg. & Matrix Thry.	3	
MATH 368	Ordinary Differential Eqs.	3	
MATH 321W	Modern Geometry		3
SPCH 301	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

**BACHELOR OF SCIENCE IN
EDUCATION:
MATHEMATICS EDUCATION
MAJOR**

FRESHMAN YEAR		F	S
MATH 231, 232	Calculus I, II	4	4
He 102	Health for Teachers		3
ENG 104, 105	Composition	3	3
BIO 101	Introduction to Biology		2
BIOL 101	Intro to Biology Lab		1
HIST 101, 102	History of Civilization	3	3
² UNIV 100	University Success	2	
ART 206	Art Appreciation		3
or			
MUS 205	Music Appreciation		3
³ FR 101, 102	Elementary French	3	3
Totals		18	19

SOPHOMORE YEAR

MATH 233	Calculus III	4	
MATH 303W	Set Theory & Logic		3
PSY 201	General Psychology		3
ENG 205	World Literature	3	
ENG 206	Literature of Science		3
EDCI 100	Intro to Education	3	
EDFL 203	Historical & Cultural Foundtn of Educ.		3
SPCH 201	Speech Arts	3	
CSC 117	FORTRAN		3
Totals		13	15

JUNIOR YEAR

MATH 368	Differential Equations	3	
MATH 331	Lin. Alg & Matrix Thry		3
MATH 311W	Abstract Algebra	3	
MATH 321W	Modern Geometry		3
MATH 355	Prob & Statistics	3	
MATH 493W	History Mathematics		3
EDFL 367	Measurement & Eval		3
GUID 215	Hum. Grth & Develop	3	
PHY 201	Basic Physic I	3	
and			
PHYL 201	Basic Physics Lab I		1
or			
PHY 211	Gen Physics II	4	
and			
PHYL 211	Gen Physics Lab I		1
Totals		16-17	12

SENIOR YEAR

MATH 402W	Math in the Secnd Schls	3	
MATH 403S	Mathematics Seminar	3	
RE 455	Diagnostic Reading		
	Instrn on in Secnd Schl	3	
EDCI 402	Research Theory & Clinical Practice	3	
SS 301	Law & social Systems	3	
EDCI 402	Clinical Internship in Student Teaching		12
PHIL 301	Intro to Philosophy	3	
or			
PHIL 416	Logic	3	
	Total	18	12

TOTAL HOURS: 123-124

1. See list of Science Options.
2. Students who transfer 12 or more hours of college credits are exempt from this course, but must meet the minimum degree requirements.
3. Students who have completed two years of a foreign language in high school with a "C" or above are exempt from the foreign language requirement **but must take six additional semester hours of course work.** See list of Foreign Language Options.
4. Must be from list of Concentration-Specialization and courses must be from the 300 - 400 level.
5. See list of Social Science Options

*Concentration-Specialization

Pure Mathematics

Algebra
Analysis
Complex Variables
Geometry
Number Theory
Set Theory and Logic

Applied Mathematics

Differential Equations
Financial Mathematics
Mathematical Modeling
Numerical Analysis
Probability and Statistics

- * Students should consult an advisor for courses in these areas.

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 201 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 Gen. Physics I or II and Labs
PHY 241 Introduction to Astronomy
MET 200 Introduction to Meteorology

Social Science Options

SS 201 or 202 Social Institutions
GEO 115 Introduction to Cultural Geography
GEO 209 World Regional Geography
SOC 214 Introduction to Sociology
SOC 325 Cultural Anthropology
PS 344 Introductions to Political Science
PS 335 American Government
PS 336 State and Local Government
ECO 211 or 212 Principles of Economics
PSY 201/111-112 Psychology

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

Elementary Education Majors

Elementary Education majors who are seeking a content knowledge area in mathematics must complete the following courses:

MATH 111, MATH 112, MATH 226,
MATH 227, MATH 306, MATH 401W,
MATH 493W.

Substitute courses must be approved by the Department of Mathematics.

