## MATHEMATICS, B.S.

## **Requirements for a Major in Mathematics**

Code Title Hour
Thirty-nine semester hours, six of which must be at the 4000level including the following:

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Required Cour	rses		
MTH 1321	Calcul	us I	3
MTH 1322	Calcul	us II	3
MTH 2311	Linear	Algebra	3
MTH 2321	Calcul	us III	3
MTH 3300	Found	ations of Mathematics	3
MTH 3323	Introdu	uction to Analysis	3
or MTH 432	26 Advan	ced Calculus I	
MTH 3312	Found	ations of Combinatorics and Algebra	3
or MTH 431	14 Abstra	ct Algebra	
MTH 3325	Ordina	ry Differential Equations	3
or MTH 431	12 Crypto	logy	
or MTH 432	22 Numer	ical Analysis	
Fifteen semester hours of 3000-4000 level MTH or STA courses <sup>1</sup>			
A grade of "C"	or better in thi	rty-nine hours of MTH and STA	
courses used	for the major.		
Subtotal			39
Required Cour	rses in Other Fi	elds	
CSI 1401	Introdu	uction to Programming I	4
or CSI 1430	) Introdu Labora	uction to Computer Science I with Itory	
or STA 245		uction to Computing for the Mathematica atistical Sciences	al

Eight semester hours of science courses with appropriate

Laboratory

Laboratory

Analysis (Lab)

World Oceans

Earth Science

The Earth Through Time

**Evolution and Extinction** 

**Environmental Geology** 

The Dynamic Earth

following: BIO 1305

& BIO 1105

BIO 1306

& BIO 1106

CHE 1301

& CHE 1101

& CHE 1102

& ENV 1101

GEO 1306 & GEO 1106

GEO 1401

GEO 1402

GEO 1403

GEO 1405

GEO 1408

or GEO 1307

& GEO 1106

CHE 1302

ENV 1301

labs (with no more than 4 hours from GEO) selected from the

Modern Concepts of Bioscience

and Modern Concepts of Bioscience

and Modern Concepts of Bioscience

and General Chemistry Laboratory I

and General Chemistry Laboratory II

and An Introduction to Environmental

and The Earth Through Time, Laboratory

and The Earth Through Time, Laboratory

Earthquakes and Other Natural Disasters

**Exploring Environmental Issues** 

Basic Principles of Modern Chemistry I

Basic Principles of Modern Chemistry II

Modern Concepts of Bioscience, continued

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Total Hours		51
PHY 1430	General Physics II	
PHY 1420	General Physics I	
NSC 1306 & NSC 1106	Introduction to Neuroscience and Introduction to Neuroscience Laboratory	

Excluding: MTH 3318 Data and Chance, MTH 3340 Mathematics through Technology, and MTH 4343 Topics in Mathematics for Prospective Teachers