

MATHEMATICS (MATHEMATICS EDUCATION CONCENTRATION), B.S.

This program is designed for students interested in mathematics education and certification to teach secondary mathematics; upon graduating students will be certified to teach in Texas.

Requirements for a Major in Mathematics (Mathematics Education Concentration)

Code	Title	Hours
Thirty-three semester hours including the following:		
Required Courses		
MTH 1321	Calculus I	3
MTH 1322	Calculus II	3
MTH 2311	Linear Algebra	3
MTH 2321	Calculus III	3
MTH 3300	Foundations of Mathematics	3
MTH 3312	Foundations of Combinatorics and Algebra	3
MTH 3323	Introduction to Analysis	3
MTH 3350	Structure of Modern Geometry	3
STA 3381	Probability and Statistics	3
Three semester hours of 3000-4000 level MTH or STA courses		3
Three semester hours of 4000 level MTH or STA courses		3
A grade of "C" or better in thirty-three hours of MTH and STA courses used for the major.		
Subtotal		33
Required Courses in Other Fields		
MTH 3340	Mathematics through Technology	3
Eight semester hours of science courses with appropriate labs (with no more than 4 hours from GEO) selected from the following:		8
BIO 1305 & BIO 1105	Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory	
BIO 1306 & BIO 1106	Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory	
CHE 1301 & CHE 1101	Basic Principles of Modern Chemistry I and General Chemistry Laboratory I	
CHE 1302 & CHE 1102	Basic Principles of Modern Chemistry II and General Chemistry Laboratory II	
ENV 1301 & ENV 1101	Exploring Environmental Issues and An Introduction to Environmental Analysis (Lab)	
GEO 1306 & GEO 1106 or GEO 1307 & GEO 1106	The Earth Through Time and The Earth Through Time, Laboratory Evolution and Extinction and The Earth Through Time, Laboratory	
GEO 1401	Earthquakes and Other Natural Disasters	
GEO 1402	World Oceans	
GEO 1403	Environmental Geology	

GEO 1405	The Dynamic Earth
GEO 1408	Earth Science
NSC 1306 & NSC 1106	Introduction to Neuroscience and Introduction to Neuroscience Laboratory
PHY 1420	General Physics I
PHY 1430	General Physics II
Completion of the Minor in Mathematics Education (School of Education)	
Total Hours	44