

MATHEMATICS

ACADEMIC CONCENTRATION FOR MIDDLE GRADES MATHEMATICS

Select one of the following two:		
MAT 111 – 112	College Algebra – Trigonometry	6 hours
MAT 115	Precalculus (Preferred)	3 hours
CORE COURSES		
MAT 142	Basic Concepts of Mathematics II	3 hours
MAT 161	Calculus with Analytic Geometry	4 hours
MAT 243	Concepts and Applications of Discrete Mathematics *	3 hours
MAT 345	Modern College Geometry**	3 hours
MAT 346	Historical Development of Mathematics***	3 hours
STT 215	Introduction to Statistics****	3 hours
Suggested additional mathematics courses if more credit hours are needed to total 24:		
MAT 275	Axiomatic Structures	3 hours
MAT 162	Calculus with Analytic Geometry II	4 hours
MAT 335	Linear Algebra with Matrices	3 hours

Total Hours = 24 including Basic Studies

* Prerequisite: MAT 142; MAT 151 or MAT 161

** Prerequisite: MAT 275

*** Corequisite: MAT 275 or consent of instructor

**** Prerequisite: MAT 111 or 115

ADDITIONAL TEACHING FIELD FOR MIDDLE GRADES MATHEMATICS

MAT 142	Basic Concepts of Mathematics II	3 hours
MAT 111 – 112	College Algebra – Trigonometry	6 hours
MAT 161	Basic Calculus with Applications	3 hours
MAT 243	Concepts and Applications of Discrete Mathematics *	3 hours
STT 215	Introduction to Statistics**	3 hours
Suggested additional mathematics courses if more credit hours are needed to total 18:		
MAT 275	Axiomatic Structures	3 hours
MAT 152	Basic Calculus with Applications II	3 hours
MAT 335	Linear Algebra with Matrices	3 hours

Total Hours = 18 including Basic Studies

** Prerequisite: MAT 111 or 115

* Prerequisite: MAT 142; MAT 151 or MAT 161