

**Objectives matrix of Mathematics Education Study Program**

	Knowledge 1 (PLO 1)	Knowledge 2 (PLO 2)	Knowledge 3 (PLO 3)	Knowledge 4 (PLO 4)	Knowledge 5 (PLO 5)	General Skill 1 (PLO 6)	General Skill 2 (PLO 7)	General Skill 3 (PLO 8)	Special Skill (PLO 9)	Affective 1 (PLO 10)	Affective 2 (PLO 11)
Religion Study					Medium					High	
Educational psychology					High					High	
Calculus	High									Low	
General Physics					High					Low	
Introduction Basic Mathematics	High									Low	
Basic Algebra and Trigonometry	High									Low	
Computer application								High		Low	
Pancasila Education					Medium					High	
Administration and Educational Supervision					High					Medium	
General biology					High					Low	
General Chemistry					High					Low	
Plane and Space Geometry	High									Low	
English for Mathematics					High		High			Low	

Advanced Calculus	High									Low	
Indonesian					High		High			Low	
Basics Educational Science					High					Low	
Plane and Spaces Geometry Analytic	High									Low	
Elementary Statistics	High									Low	
Psychology of Mathematical Instructions					High					Medium	
Elementary Linear Algebra	High									Low	
Number Theory	High									Low	
Civic education					Medium					High	
Introduction of Counseling					Medium					High	
Mathematics Instruction Strategies		High				High				Medium	
Abstract Algebra	High									Low	
Vektor Calculus	High									Low	
Study Middle School Math Curriculum					High					Low	
Algorithms and Programming	High							High		Low	
English					High		High			Low	

Schooling Field Practice 1		High	High			High	High		High	Low	High
Mathematics Learning Design		High				High				Medium	
Evaluation of Mathematics Learning		High				High				Medium	
Mathematics Learning Media		High	High			High				Medium	
Mathematical Statistics 1	High									Low	
Ordinary Differential Equations	High									Low	
Discrete Mathematics	High									Low	
Entrepreneurship						High				Low	Medium
University Elective Courses					Medium					Low	
Schooling Field Practice 2		High	High			High	High			Low	High
Micro Teaching		High	High			High	High			Low	
Educational Research Methods and Teaching Mathematics		High		High		Medium	Medium			Low	
Introduction to Operations Research	High									Low	
Real Analysis 1	High									Low	
Geometry Transformation	High									Low	
Advanced Computer Applications								High		Low	

History of Mathematics					High		Medium			Low	
Actuarial	High									Low	
Schooling Field Practice 3		High	High			High	High			Low	High
Undergraduate Thesis Seminar		High		High		High	High			Low	
Undergraduate Thesis		High	High	High		High	High			Low	Medium
Sampling Technique	High									Low	
Community Internship						High	High			Low	Medium
Applied Regression Analysis	High									Low	
Multivariate Analysis	High									Low	
Finite Group Theory	High									Low	
Introduction to Topology	High									Low	
Mathematical Statistics 2	High									Low	
TFV Complex 1	High									Low	
Mathematical Modeling	High									Low	
Databases								High		Low	
Real Analysis 2	High									Low	
Numerical Method	High									Low	