

**CALIFORNIA UNIVERSITY
OF PENNSYLVANIA**

Program: Master of Arts Teaching: Secondary Education Mathematics

Start: Fall (August) Start

Total Credits: 45 Graduate Credits for Master's degree

Required Content Courses: A grade of C or better is required for certification	Credits
MAT 199 Pre-Calculus	3
MAT 272 Discrete Mathematics	3
MAT 281 Calculus I	3
MAT 282 Calculus II	3
MAT 290 Technology for Math	3
MAT 303 Geometry	3
MAT 304 History of Mathematics	3
MAT 305 Theory of Equations	3
MAT 341 Linear Algebra I	3
MAT 351 Abstract Algebra I	3
MAT 381 Calculus III	3
MAT 400 Mathematical Modeling	3
MAT 461 Statistical Analysis	3
MAT Elective	3
Cal U Required Courses	
Fall	
MSE 641 Orientation to 7-12 Ed.	3
MSE 642 Standards-Based Instruction in 7-12 Ed	3
ESP 610 Sp. Ed. Foundations & Collaboration	3
	9
Spring	
MSE 643 Content Area Literacy in 7-12 Ed.	3
MSE 644 Instructional Strategies in 7-12 Ed.	3
ESP 701 Introduction to Behavior Analysis	3
	9
Summer	
MSE 652 Methods of Mathematics Teaching K-12*	3
MSE 646 Assessments and Interventions*	3
MSE 645 Technology in 7-12 Education*	3
	9
* 2-day on-campus July residency will be integrated into the summer MSE courses	
Fall	
MSE 647 Classroom Management in 7-12 Ed.	3
ESP 613 Evidence-Based Practices for Sec Inclusion	3
EDU 650 Supporting the English Language Learner	3
	9
Spring (Must earn a Recommendation for Student Teaching)	
MSE 661 Student Teaching & School Law	9
	9
Total Graduate Credits	45