

Certificate in Mathematics

This certificate is designed primarily for students who require 18 hours of graduate mathematics content in order to teach at the community college level or to teach dual-credit courses at the secondary level.

Admission Requirement – GPA of 2.5 in last 60 hours

Course Requirements

MA 701 Mathematical Proofs	3
Any course in the algebra area*	3
Any course in the analysis area**	3
Any course in the statistics and applied mathematics area***	3
Two additional graduate mathematics courses, which must be approved by the advisor and the Graduate Committee.	6

Total 18

*Algebra courses include: Hours

MA 728 Vector Spaces	3
MA 740 Number Theory	3
MA 741 Group Theory	3
MA 742 Ring Theory	3
MA 743 Field Theory	3
Special topic course approved by the graduate committee.	

**Analysis courses include:

MA 715 Topology	3
MA 734 Complex Variables.....	3
MA 735 Advanced Calculus I	3
MA 736 Advanced Calculus II	3
Special topic courses approved by the graduate committee	

***Statistics and Applied Mathematics courses include:

MA 532 Mathematical Statistics I	3
MA 732 Categorical Data Analysis	3
MA 733 Mathematical Statistics II	3
MA 738 Applied Differential Equations	3
MA 758 Wavelets	3
MA 760 Numerical Analysis	3
MA 762 Optimization Techniques	3
MA 763 Simulation Techniques	3
MA 764 Regression Analysis	3
MA 765 Numerical Linear Algebra	3
Special topic courses approved by the graduate committee	