

K-5 Mathematics Certificate - Program Planner

Course Number	Title	Credits	Semester Offered*
MAED 7110	Number Operations and Base Ten Development	4 credits	Fall
MAED 7120	Fractions and Decimals - Geometry and Measurement	4 credits	Spring
MAED 7130	Assessment and Intervention - Summer School Practicum	4 credits	Summer

**Subject to change, please check Pipeline for current course offerings.*

Course Description: MAED 7110 Number Operations and Base Ten Development

The content focus of this course is on understanding various developmental frameworks of how K-5 students construct their mathematical knowledge on single and multi-digit number operations, including exploring algebraic properties that underlie the mathematics. Developing instructional strategies, discourse practices, and reflective teaching disposition along with documenting student case studies are core elements threaded throughout this course.

Course Description: MAED 7120 Fractions and Decimals - Geometry and Measurement

The content focus of this course is on understanding various developmental frameworks of how K-5 students construct their mathematical knowledge of fractions and decimals as well as shape, space, and measurement. Continued development of instructional, discourse, and reflective teaching practices, along with further documentation of student case studies is threaded throughout the course.

Course Description: MAED 7130 Assessment and Intervention - Summer School Practicum

This course is scheduled in two blocks of time. This first is four full days with a focus on assessment and intervention practices. The second block is seven full days embedded in a summer school classroom working with children in the morning then debriefing, analyzing, and planning for instruction. The intent is to use this experience to focus intently on one's instructional and discourse practices while working only with small groups of students.