School of Education & Human Development

UNIVERSITY OF COLORADO **DENVER**

MA in STEM Education: Math & Science - Online

For Math & Science, there are 5 required courses (15 credits hours). In consultation and with approval from your faculty advisor, select 4 elective courses to customize your learning (12 credits). For instance, you may want to earn a certificate in Learning Design and Technology to complement your degree. Finally, take a research course (3 credits) for a total of 30 credits. ***This degree plan does <u>not</u> include a license or an endorsement.**

Degree Components	Courses	Credits	Semester Completed
Concentration Core; 12 credits required			
Core Course 1	**Choose one:** MTED 5621: A World of (Different) Numbers MTED 5622: Expanding Conceptions of Algebra MTED 5623 Geometrical Ways of Reasoning	3	
Core Course 2	**Choose one:** MTED 5621: A World of (Different) Numbers MTED 5622: Expanding Conceptions of Algebra MTED 5623 Geometrical Ways of Reasoning	3	
Core Course 3	SCED 5350: Issues and Trends in Science Education	3	
Core Course 4	STME 6110: Science and Math Curriculum Studies	3	
Core Course 5	**Choose one:** MTED 5030: Theories of Mathematical Learning MTED 5050: Critique of Mathematics Education Literature MTED 5070: (Re)Humanizing Mathematics Teaching and Learning	3	
Total Concentration Core		**12**	
Choice of 4 elective courses; 12 credits required			
The following are things to think about when selecting your thematic courses: 1. Use this opportunity to explore additional subjects and develop a well-rounded general knowledge of your area of study. 2. Choose courses that will help you develop a deeper understanding of a specific subject area within your degree discipline. 3. Choose courses that are relevant to your personal and professional goals. 4. Select classes that appeal to your interests and strengths. 5. Consider courses that will build or increase a specific skill set. 6. If you're considering a PhD, consider taking a statistics course. 7. Opt for a course that addresses your weaknesses. 8. Find courses that embrace your passions. 9. Choose classes that will help you hone your skills in research or where you can learn a new skill to enhance your abilities beyond your current skill set. 10. Consult with your faculty advisor to ensure you're selecting a coherent group of courses that will enhance your learning.			
Course 1		3	
Course 2		3	
Course 3		3	
Course 4		3	
Total Elective Credits		**12**	
Research Course	**RSEM ____** To be decided by student with their Faculty Advisor	3	
Total Credit Hours		**30 minimum**	