ADVANCED PROGRAMS – UNIT ASSESSMENT ALIGNMENT
Conceptual Framework

MSE Mathematics Program – **COE CONCEPTUAL FRAMEWORK**

CONCEPTUAL FRAMEWORK					
	Professional Identity	Diversity	Advanced Knowledge/Skills	Ecological Dispositions (Collaboration, Family, Stakeholder Involvement)	Evidence-Based Performance (Student assessment data; impact of learning)
STANDARDS					
The graduate of the M.S.E. Mathematics degree will employ advanced mathematical terminology and notation accurately.			X		
The graduate of the M.S.E. Mathematics degree program will communicate advanced mathematics with clarity and effective exposition.			X		
The graduate of the M.S.E. Mathematics degree program will read and interpret written material in advanced mathematics effectively.			X		
The graduate of the M.S.E. Mathematics degree program			X		

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will possess the skills to read, interpret, and analyze advanced mathematical problems.					
The graduate of the M.S.E. Mathematics degree program will demonstrate competence transferring mathematical reasoning to written statements of mathematical proof through the use of definitions, theorems, and formal mathematical statements.			X		
The graduate of the M.S.E. Mathematics degree program will possess the ability to employ appropriate techniques, methods, and procedures in solving advanced mathematical problems.			X		
The graduate of the M.S.E. Mathematics degree program will possess technical skills in completing the mathematical processes for solving advanced			X		

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mathematical problems.					
The graduate of the M.S.E. Mathematics degree program will experience interconnections within mathematics through employing mathematical proof, mathematical reasoning, and abstract thinking in advanced mathematics.			X		
The graduate of the M.S.E. Mathematics degree program will understand how philosophies in the western world impact education and its implications on student learning.	X	X		X	X
The graduate of the M.S.E. Mathematics degree program will have an in-depth understanding of secondary school curriculum that includes design, implementation and assessment of learning	X	X	X	X	X
The graduate of the M.S.E. Mathematics degree program will plan and			X		X

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conduct research studies within the classroom setting and analyze the results					
The graduate of the M.S.E. Mathematics degree program will understand the basic principles of learning and their applications to classroom management and instructional design	X	X		X	X