## Master's (MS) in Curriculum & Instruction with a major in Science Education

Categor and suggested courses	SCHe	Category Description
Curriculum  SCE 5336. Instructional Strategies that Promote Learning in Science	3	This category addresses critical issues of PK-12 curriculum. A broad range of scope, sequence, and integration issues would include: 1.) The historical, philosophical, psychological, and social foundations upon which curriculum is constructed; 2.) The development and use of national and state standards; and 3.) Applications in contemporary design (aims, goals, implementation, and assessment alternatives).
Teaching and Learning	3	This category addresses considerations and decisions addressing the needs of learners, selection of teaching
SCE 5430 Science		methods, and the social interactions necessary to enhance
Learning and Teaching		the quality of the learning environment. Tenets of learning theory applied as best practice (e.g., Universal Design for Learning, Response to Intervention, etc.) would be represented in this core category.
<b>Instructional Technology</b>	3	This category addresses considerations, decisions, and
MAE 5658 Using		critical issues relevant to enhancing instructional effectiveness and efficiency through the use of web tools,
Technology STEM		social media, and immersive environments, productivity tools, project-based learning, et al. Consideration is also
		given to effective online/asynchronous teaching and learning best practices.
Research and Scholarship	3-6	This category broadly addresses the interpretation, use, and conduct of research. Masters candidates will design studies,
EDF 5481 Methods of Educational Research, SCE 5905 Directed Indivudal Studies		collect relevant information in a field-based environment, and interpret results that lead to instructional improvement and enhanced student achievement. Candidates specifically interested in continuing studies at the doctoral level will, in addition, complete EDF5481 (Methods of Educational
		Research, 3 SCH).
Majors- 18-21 semester credit hours		
Specialization courses in Science Education, Sciences (min 9 hours, 18 required for eligibility for community college teaching) or other	18-21	In addition to core program categories (required of all students), master's degree candidates will complete a major that reflects an individual specialty area (e.g., Science Education).
areas (e.g., GRADUATE courses in SCE, EDF, EDG, etc.)		
SCE 8966 Comp Exams		