



Courses for Master of Arts in Science Education

		2017/2018				2018/2019				2019/2020				2020/2021			
		Fall	Spr	S1	S2	Fall	Spr	S1	S2	Fall	Spr	S1	S2	Fall	Spr	S1	S2
Required Core	6145 - Intro to History and Philosophy of Science for Teachers		■			■					■			■			
	6155 - Sci Ed: Historical/Philosophical Perspectives for Teachers	■					■				■				■		
	6165 - Cognition and Teaching					■				■					■		
	6260 - Curriculum Studies in Science Education			■				■				■				■	
Science Content	5600 - Integrated Science		■					■					■			■	
	5700 - Cell Biology: Structures and Functions				■					■							
	5700 - General Biology: Organisms and their Environments		■				■							■			
	5800 - Chemistry: Building on the Theory of the Atom					■					■						
	5800 - Chemistry: Applications to Life, Industry, and Environment	■					■									■	
	5850 - Physics: Motion, Force, and Energy			■				■				■			■		
	5850 - Physics: Matter, Waves, and Light		■						■					■			
	5850 - Intro to Astronomy					■					■						■
	5900 - Earth Science: Land and Water Systems			■			■				■					■	
	5900 - Earth Science: The Atmosphere and Space				■			■							■		
	6210 - Evolution for Teachers			■					■			■					
6250 - Environmental Science Seminar				■								■				■	
Science Education	6200 - Evidence Based Science Teaching			■				■				■				■	
	6200 - Integrated Science Teaching				■			■				■					■
	7100 - Research/Study	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

At least 15 of 30 required credits must be at 6000 level

9/26/17

Mallinson Institute for Science Education Course Requirements for M.A. in Science Education

Science Education Core 12 credits	Science Content/ Science Education 6-12 credits	Electives 0-6 credits
SCI 6145 Intro to Hist. & Phil of Sci.* SCI 6155 Sci. Ed.: History & Philosophy* SCI 6165 Cognition & Teaching* SCI 6260 Science Curriculum	Any 5000-6000 level science course Up to 6 credits at 3000-4000 level Up to 6 credits at the graduate level transferred from another institution.	6 elective credits (with advisor approval) or 6 credits of SCI 7100 (independent project) or 6 credits of SCI 7000 (thesis)
Total: 30 credits		

*The following courses offered as traditional classroom courses at the WMU Main Campus may be used in place of the corresponding online courses:

- SCI 6140 Hist/Phil of Science
- SCI 6150 Hist/Phil of Sci Ed
- SCI 6160 Models of Teaching & Learning

At least 15 of 30 required credits must be at 6000 level