MS in Physics with Concentration on Atmospheric Sciences

The Atmospheric Sciences Concentration is proposed for Physics MS students who want to pursue atmospheric sciences as a career and do Thesis or Project in Atmospheric Sciences. Students interested in Atmospheric Chemistry will have to follow the regular Physics MS required courses with electives to be selected by the faculty advisor.

A.	Required Courses:	Credits
	1. PHYS 600 Classical mechanics	3
	2. (a) PHYS 630 Statistical Mechanics or	3
	(b) PHYS 615 Electromagnetism I	
	3. PHYS 651 ¹ Dynamic Meteorology	3
	4. (a) PHYS 650 ¹ Physical Meteorology or	3
	(b) EES 785 Advanced Synoptic Analysis	
	5. PHYS 740 Graduate Seminar	3
	6. PHYS 792 MS Thesis or	6
	PHYS 791 MS Project	3
	Total required credits	21 (18 for project option ²)
R.	Physics/EES Electives:	
2.	PHYS 605 Mathematical Methods	
	PHYS 650 ¹ Physical Meteorology	
	PHYS 715 Electromagnetism I	
	PHYS 715 Electromagnetism II	
	PHYS 740 Graduate Seminar	
	PHYS 745 Computational Physics	
	PHYS 770 Research	
	EES 785 Advanced Survey of Atmospheric Sciences	
	EES 785 Numerical Weather Prediction	
	EES 785 Climate Variability and Prediction	
	EES 785 Advanced Synoptic Analysis	
	EES 785 Mesoscale Meteorology	
	EES 785 Tropical Meteorology	
	EES 785 Storm Dynamics	
	EES 785 Mesoscale Dynamics	
	EES 785 Advanced Synoptic Analysis	
	EES 785 Advanced Remote Sensing	
	EES 785 Advanced Mesoscale Analysis	2
	Total Elective credits	9 (12 for project option ²)

¹PHYS 650 (Physical Meteorology) and PHYS 651 (Dynamic Meteorology) need to be created and colisted with EES 750 (Physical Meteorology) and EES 751 (Dynamic Meteorology), respectively. ²Total of 30 (33) credit hours are required to graduate for thesis (project) option.