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M.S. Thesis Track Course Plan (04/04/2025) Atmospheric Sciences Graduate Group

A. Prerequisites:

Course Number	Course Title	Units	Completion Status (indicate if completed at another institution, at UC Davis or not yet)
MAT 21A	Calculus	4	
MAT 21B	Calculus	4	
MAT 21C	Calculus	4	
MAT 21D	Vector Analysis	4	
PHY 9B	Classical Physics	5	

B. Core Requirements (15-20 units)

M.S. students are required to take at least one class from each of the five categories below, which encompass the main areas of the atmospheric sciences. Within each category, students must take one of the courses marked by the asterisk (*) unless the equivalent course was taken in a prior program. Additional courses to those listed below may be available. A "B" grade average or better is required for the core courses.

Course Number	Course Title	Units	Term /Year	Grade
Dynamics emphas	is			
ATM 111	Weather Analysis and Prediction	3		
ATM 121A	Atmospheric Dynamics I (*)	4		
ATM 121B	Atmospheric Dynamics II (*)	4		
ATM 221	Advanced Atmospheric Dynamics	3		
ATM 250	Mesoscale Meteorology	3		
Climate emphasis				
ATM 115	Hydroclimatology	3		
ATM 116	Modern Climate Change	3		
ATM 215	Advanced Hydroclimatology	3		
ATM 240	General Circulation of the Atmosphere	4		
ATM 241	Climate Dynamics	3		
ATM 245	Climate Change Science and Impacts (*)	4		
Atmospheric Chei	mistry/Air Quality emphasis			
ATM 149	Air Pollution	4		
ATM 160	Introduction to Atmospheric Chemistry (*)	4		
ATM 231	Advanced Air Pollution Meteorology	3		
ATM 260	Atmospheric Chemistry	3		
ECI 242	Air Quality	4		
ECI 247	Aerosols	4		
ECI 241	Environmental Reactive Chemical Transport Modeling	4		
Biometeorological	/Boundary Layer emphasis			
ATM 124	Meteorological Instruments and Observations	3		
ATM 133	Biometeorology (*)	4		
ATM 158	Boundary Layer Meteorology (*)	4		
ATM 223	Advanced Boundary Layer Meteorology	3		
ATM 233	Advanced Biometeorology	3		
ECI 289I	Introduction to Turbulence	4		
Atmospheric Phys	ics emphasis			
ATM 120	Atmospheric Thermodynamics and Cloud Physics (*)	4		
ATM 128	Radiation and Satellite Meteorology (*)	4		
ATM 230	Atmospheric Turbulence	3		
ATM 244	Cloud and Precipitation Physics	3		
	-	Total U	J nits:	
		Averag	ge Grade:	

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eries) chosen to satistudents are required thesis serves as the care	(10-15 units) requires additional graduate and upper disfy the four requirements below. Depending to take between 10 and 15 units of elective apstone requirement. Research units (299) owing four elective course requirements re	ng on the total number of unit re courses, for a minimum of or equivalent) do not count to	s of core cour 30 total units.	ses taken, The research	
			Comp	letion Status	
i. Graduate and u total courses re consent of the					
instructed by a	ts of elective courses must be graduate-leven ASGG-affiliated faculty member, or apprecourses are part of requirement i. above.				
iii. A maximum o	3 units can be taken as S/U.				
one format in-	, and at most 4 units, of ATM 290 during class oral presentation. More details are prilable on the ASGG website (https://atm.u	ovided in the ASGG Seminar	r		
	ses successfully completed:	Ι	1 =		
Course Number	Course Title	Units	Term /Year	Grade	
		Total U	Jnits:		
D. Research Units (The research thesis so Course Number	ounits) erves as the capstone requirement. At least Course Title				
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		Total U	Jnits:		

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