

The Bachelor of Science Degree in Meteorology

General Education	Units 39
(Of the 51 units required by University, 12 units satisfied by completion of supporting courses for major; Area B1-B4).	
Physical Education	2
Requirements for Major	52
Metr 10, 40 (2), 50 (2), 51 (2), 61 (4), 100W, 121A, 121B, 123, 124, 125, 136, 163, 170A (1), 170B (1), 171A, 171B, 172, 179 (2 units; taken over two semesters)	
Plus three units from the following: Metr 120A, 131, 150, 160, or 185	
Supporting Courses Required	32
Chem 1A	5 units
Math 30P, 31, 32, 133A	14 units
Phys 50, 51, 52	13 units
Total Units Required for Degree	125

Undergraduate Meteorology Courses

Course Number	Title (units)	Minimum Prerequisite(s)
METR 010	Weather and Climate (3)	
METR 040	Weather Seminar (1)	
METR 050	Computers in Meteorology I (2)	<i>Math 31</i>
METR 051	Computers in Meteorology II (2)	<i>Metr 50; Coreq: Metr 61</i>
METR 061	Introduction to Meteorology (4)	<i>Metr 50, Phys 52; Coreq: Math 133A, Metr 51</i>
METR 100W	Writing Workshop: Meteorological Reports (3)	<i>Complete Core GE; WST, Upper division standing</i>
METR 110	Aviation Meteorology (3)	<i>Upper division standing</i>
METR 111	Atmospheric Science Laboratory	<i>Metr 10, 112, or 113</i>
METR 112	Global Climate Change (3)	<i>Complete Core GE; WST, Upper division standing</i>
METR 113	Atmospheric Pollution (3)	<i>Complete Core GE; WST, Upper division standing</i>
METR 120A	Laboratory Electronics for Scientists I (3)	<i>Phys 2B or 52</i>
METR 120I	Laboratory Electronics for Scientists II (3)	<i>Phys 120A; CS 43</i>
METR 121A	Dynamic Meteorology (3)	<i>Metr 51, 61; Math 133A</i>
METR 121B	Dynamic Meteorology (3)	<i>Metr 121A,</i>
METR 123	Advanced Climatology (3)	<i>Metr 61</i>
METR 124	Thermodynamics and Radiation (3)	<i>Chem 11A or 1A; Coreq. Metr 121A or instr. consent</i>
METR 125	Physical Meteorology (3)	<i>Metr 124 or instr. consent</i>
METR 130	Boundary Layer Meteorology	<i>Metr 121B or instr. consent</i>
METR 131	Air Pollution Meteorology (3)	<i>Metr 121B or instr. consent</i>
METR 136	Empirical Techniques in Meteorology (3)	<i>Metr 61</i>
METR 150	Computers in Meteorology III (3)	<i>Metr 51, or instr. consent</i>
METR 160	Tropical Meteorology (3)	<i>Metr 121B</i>
METR 163	Remote Sensing (3)	<i>Metr 61, 136</i>
METR 170A	Weather Briefing (1)	<i>Coreq: Metr 121A</i>
METR 170B	Weather Briefing (1)	<i>Coreq. Metr 121B</i>
METR 171A	Synoptic Weather Analysis & Forecasting (3)	<i>Metr 100W, 121B, and 125 or instr. consent</i>
METR 171B	Synoptic Weather Analysis & Forecasting (3)	<i>Metr 171A</i>
METR 172	Mesoscale Meteorology (3)	<i>Metr 171A</i>
METR 179	Senior Thesis (2)	<i>Metr 100W; Coreq. Metr 171A,B</i>
METR 182	Tutor Assistant in Meteorology (1)	<i>Upper division standing, instr. Consent</i>
METR 185	Special Topics (1-3)	<i>Metr 121B or instr. consent</i>

Undergraduate Program in Meteorology

[For students qualified to enter first semester calculus (Math 30P), Phy 50, & Chem 1A; other require pre-calculus math, summer school, and/or additional semester(s).]

Fall	Units	Spring	Units	
Freshman				
Metr 10 (Weather/Climate)	3	Metr 40 (Weather Seminar).	1	
Math 30P (Calc 1).	5	Math 31 (Calc 2).	4	
Chem 1A	5	Phys 50 (Mechanics).	4	
GE #1	3	GE #2, #3 and #4	<u>2</u>	
Sci 2 . . (Success in Science).	<u>(3)⁺</u>			
Total	16	Total	18	34
Sophomore				
Metr 50 (Computing – Fortran).	2	Metr 51 (Computing – C++).	2	
Math 32 (Calc 3).	3	Metr 61 (Intro to Met).	4	
Phys 52 (Heat and Light).	4	Math 133A (Ordinary Diff Eq.).	3	
GE # 5, #6 and #7	<u>2</u>	Phy 51 (Electricity & Magnetism)	4	
		GE #8	3	
		Kin (Phys Ed)	<u>1</u>	
Total	18	Total	17	35
Junior				
Metr 121A (Dynamics)	3	Metr 100W (Writing Workshop)	3	
Metr 124 (Thermo & Radiation)	3	Metr 121B (Dynamics)	3	
^x Metr 136 (Statistics)	3	Metr 125 (Physical Met.)	3	
Metr 170A (Wx Briefing)	1	Metr 170B (Wx Briefing)	1	
GE #9 and #10	6	^o Metr 163 (Remote Sensing)	<u>3</u>	
Kin (Phys Ed)	<u>1</u>			
Total	17	Total	13	30
Senior				
^x Metr 123 (Advanced Climatology)	3	Metr 171B (Dynamics)	3	
Metr 171A (Synoptic Analysis)	3	Metr 172 (Mesoscale Met.)	3	
Metr 179 (Senior Thesis)	1	Metr 179 (Senior Thesis)	1	
ADV GE #1 and #2	<u>6</u>	^o Metr Elective	3	
		ADV GE #3	<u>3</u>	
Total	13	Total	13	26
				125

Total Units for Major: 125

()^x and ()^o Course pairs may be given in alternate years.
 ()⁺ Strongly recommended (not included in 125 unit degree requirement).