

Bachelors of Science in Meteorology

Required Departmental Courses

Course #	Course Title	Hours	Prerequisites
METR 1102	Introduction to Meteorology	3	
ESCI 3101	Global Environmental Change	3	ESCI 1101 or METR 1102
METR 3140	Fundamentals of Meteorology	3	ESCI 1101+L or METR 1102
METR 3210	Atmospheric Thermodynamics	3	METR 3140 with C or better, MATH 1241
METR 3220	Physical Meteorology	3	METR 3210 with C or better, CHEM 1251
METR 3245	Synoptic Meteorology + Lab	4	METR 3210 with C or better
METR 3250	Dynamic Meteorology	3	METR 3245 with C or better, MATH 1242, PHYS 2101
METR 4105	Meteorological Computer Applications	3	METR 3140 with C or better, MATH 1241
METR 4205	Climate Dynamics	3	METR 4105 with C or better, ESCI 3101, METR 3250 (Pre or Co)
METR 4245	Advanced Synoptic Meteorology	3	METR 3250 with C or better
METR 4250	Advanced Dynamic Meteorology	3	METR 3250 with C or better, MATH 2171, MATH 2241

Major Elective Courses (9 total credits - select from list below)

Course #	Course Title	Hours	Prerequisites
METR 3330	Weather Forecasting (W)	3	METR 3245
METR 3340	Weather Communications	3	METR 3245 (Pre or Co)
METR 4110	Atmospheric Instrumentation	3	METR 3210
METR 4150	Applied Climatology (W)	3	METR 3250
METR 4220	Atmospheric Chemistry	3	MATH 1242, CHEM 1251
METR 4240	Boundary Layer Meteorology	3	METR 3210
METR 4320	Tropical Meteorology	3	METR 3250
METR 4350	Mesoscale Meteorology	3	METR 3250 (Pre or Co)
METR 4000	Topics in Meteorology	3	
METR 4400	Internship in Meteorology	3	
METR 4800	Individual Study in Meteorology	3	
ESCI 3105	Oceanography	3	ESCI 1101+L or GEOL 1200+L
ESCI 3205	Water Resources	3	ESCI 1101+L or GEOL 1200+L
ESCI 4140	Hydrologic Processes + Lab	4	ESCI 1101+L or GEOL 1200+L
ESCI 4155	Fluvial Processes + Lab	4	ESCI 1101+L or GEOL 1200+L
ESCI 4170	Fundamentals of Remote Sensing	4	ESCI 1101+L or METR 1102 and GEOL 1200+L
ESCI 4180	Digital Image Processing in Remote Sensing	4	ESCI 4170
ESCI 4222	Watershed Science	3	ESCI 4140 or ESCI 4155
GEOG 3190	Biogeography	3	ESCI 1101 or BIOL 2120
GEOG 3215	Environmental Planning (W)	3	
GEOG 4110	GIS for Non-Majors	3	
GEOG 4131	Environmental Modeling with GIS	4	GEOG 4110 and/or permission of the instructor
GEOG 4132	Spatial Modeling with GIS	4	GEOG 4110 and/or permission of the instructor
GEOG 4150	Spatial Databases with GIS	4	GEOG 4110 and/or permission of the instructor
GEOG 4215	Urban Ecology	3	
GEOG 4216	Landscape Ecology	3	
GEOL 4105	Geomorphology	4	ESCI 1101+L or GEOL 1200+L

Required Extra-Departmental Courses

Course #	Course Title	Hours	Prerequisites
CHEM 1251	Principles of Chemistry + Lab	4	
MATH 1241	Calculus I	3	
MATH 1242	Calculus II	3	MATH 1241
MATH 2171	Differential Equations	3	MATH 1242
MATH 2241	Calculus III	3	MATH 1242
PHYS 2101	Physics for Science I + Lab	4	MATH 1241
PHYS 2102	Physics for Science II + Lab	4	PHYS 2101, MATH 1242
STAT 2122/31	Intro to Probability and Statistics	3	MATH 1242