

# Appendix A

## BS Program in Atmospheric & Climate Sciences, Accelerated Option; MS in Meteorology

JPB24264

BS Total Credits		Cognate	Science Core	Atmospheric & Climate Sci. Core	Gen. Ed.
120		18	12	44	46
<b>Semester 1</b>			<b>Semester 2</b>		
MTR 150	Meteorology (SI)	4 ACS core	BIO 150	Science of Climate Change (IL/SI)	4 ACS core
MAT 181	Calculus I (QR)	4 gen ed.	MAT 182	Calculus II (QR)	4 cognate
ES 103	Planet Earth (FY) [Team Taught]	3 ACS core	MTR 240	Climatology	3 ACS core
PHY/ENV 136	Energy (QR)	4 SCI core	XXX 111	General Education Elective (IC)	3 gen ed.
Semester Total		15	Semester Total		14
<b>Semester 3</b>			<b>Semester 4</b>		
PHY 110	General Physics I (calculus-based)	4 SCI core	PHY 111	General Physics II (calculus-based)	4 SCI core
MAT 281	Calculus III	4 cognate	CS 140	Introduction to Programming	4 cognate
CHE 110	Gen. Chemistry I	4 gen ed.	XXX 111	General Education Elective (W1)	3 gen ed.
XXX 111	General Education Elective (OC)	3 gen ed.	XXX 111	General Education Elective (CP)	3 gen ed.
Semester Total		15	Semester Total		14
<b>Semester 5</b>			<b>Semester 6</b>		
MTR 231	Weather Analysis & Forecasting	4 ACS core	XXX 111	General Education Elective (IC)	3 gen ed.
MAT 222	Introductory Statistics	3 cognate	ES 210	Physical Oceanography & Climate	4 ACS core
ACS 3XX	Acquisition & Analysis of Data	3 ACS core	MAT 282	Differential Equations	3 cognate
XXX 111	General Education Elective (CT)	3 gen ed.	XXX 111	General Education Elective (W2)	3 gen ed.
XXX 111	General Education Elective (IL)	3 gen ed.	XXX 111	General Education Elective (OC)	3 gen ed.
Semester Total		16	Semester Total		16
<b>Semester 7</b>			<b>Semester 8</b>		
ACS 4XX	Concepts in Climate Modeling (CE)	3 ACS core	MTR 430	Instrumentation & Remote Sensing	4 ACS core
MTR 310 (4AA/5AA)	Atmospheric Thermodynamics	3 ACS/Grad	MTR 311 (4BB/5BB)	Atmospheric Dynamics	3 ACS/Grad
PHY 520 (4CC)	Scientific Methods	3 ACS/Grad	EPS 530 (4DD)	Planetary Physics	3 ACS/Grad
XXX 111	General Education Elective (W3)	3 gen ed.	XXX 111	General Education Elective (CT)	3 gen ed.
XXX 111	General Education Elective (CP)	3 gen ed.	XXX 111	General Education Elective (HW)	2 gen ed.
Semester Total		15	Semester Total		15

**+1 Masters of Science Degree in Meteorology****Total Credits**

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**Semester 9**

MTR 440 (5VV)	Atmospheric Physics	3	graduate
EPS 590	Seminar in Meteorology & Climate	3	graduate
MAT 568	Partial Differential Equations	3	graduate
Semester Total		9	

**Semester 10**

MTR 340 (5ZZ)	Mesoscale Meteorology	3	graduate
PHY 599	Group Research Project	3	graduate
MAT 569	Num. Methods Differential Eqns.	3	graduate
Semester Total		9	