

# Bachelor of Science in Atmospheric Sciences

Requires 120 credits (36 of which must be number 300 or above) including:

I. Essential Studies Requirements (see University ES listing).

II. Center for Aerospace Sciences requirements.

III. The Following Curriculum:

## Freshman Year

First Semester		Credits
ATSC 100	Atmospheric Sciences Orientation	1
ATSC 110	Meteorology I <sup>+</sup>	3
ATSC 110L	Meteorology I Laboratory <sup>+</sup>	1
ENGL 110	College Composition I	3
MATH 165	Calculus I	4
ES Elective		3
<b>Credits</b>		<b>15</b>

## Second Semester

MATH 166	Calculus II	4
CSCI 160	Computer Science I	4
ENGL 130	Composition II: Writing for Public Audiences	3
ES Elective		3
General Elective		1
<b>Credits</b>		<b>15</b>

## Sophomore Year

First Semester		Credits
ATSC 210	Introduction to Synoptic Meteorology <sup>+</sup>	4
MATH 265	Calculus III	4
PHYS 251	University Physics I	4
ES Elective		3
<b>Credits</b>		<b>15</b>

## Second Semester

ATSC 240	Meteorological Instrumentation <sup>+</sup>	4
ATSC 270	Computer Concepts in Meteorology <sup>+</sup>	3
PHYS 252	University Physics II	4
CHEM 121	General Chemistry I	3
CHEM 121L	General Chemistry I Laboratory	1
<b>Credits</b>		<b>15</b>

## Junior Year

First Semester		Credits
ATSC 345	Remote Sensing of the Atmosphere <sup>+</sup>	3
ATSC 350	Atmospheric Thermodynamics <sup>+</sup>	3
MATH 266	Elementary Differential Equations	3
Career Electives <sup>*#</sup>		3
ES Elective		3
<b>Credits</b>		<b>15</b>

## Second Semester

MATH 321 or ECON 210	Applied Statistical Methods or Introduction to Business and Economic Statistics	3
ATSC 353	Physical Meteorology <sup>+</sup>	3
ATSC 360	Dynamic Meteorology <sup>+</sup>	4
ES Elective		3
ES Elective		3
<b>Credits</b>		<b>16</b>

## Senior Year

First Semester		Credits
ATSC 405	Numerical Methods in Meteorology <sup>+</sup>	3
ATSC 411	Synoptic Meteorology <sup>+</sup>	4
ATSC 492	Senior Project I <sup>+</sup>	1
Career Electives		4
ES Elective		3
<b>Credits</b>		<b>15</b>

## Second Semester

ATSC 460	Mesoscale Dynamics <sup>+</sup>	4
ATSC 493	Senior Project II <sup>+</sup>	2
Career Electives <sup>*#</sup>		5
General Electives		3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>120</b>

\* Career Electives are courses that students take to gain additional knowledge and skills that would allow them to develop their chosen career interest. A total of 12 credit hours are required from an approved list of Career Electives.

# A maximum combined limit of 6 credit hours of ATSC 397 Cooperative Education, and ATSC 497 Internship, may be used as Career Electives.

+ Grade of 'C' or higher required.