

**Curriculum Guide**  
**Department of Physics (F20 & Math 131 Start)**  
**Bachelor of Science in Atmospheric Sciences and Meteorology (ASME)**  
**Major Code: 0341 (ASMT)**

Freshman Year: First Semester		Freshman Year: Second Semester	
Course	CR	Course	CR
PHYS 100 (Phys Orientation)	1	FRST 101 (College Success)	1
ENGL 100 (Ideas & Expression I)	3	ENGL 101 (Ideas & Expression II)	3
MATH 131 (CAL I)	4	ASME 151 (Earth System Sci)	3
CHEM 106 (General Chem VI)	3	MATH 132 (CAL II)	4
CHEM 116 (General Chem VI Lab)	1	Humanities/Fine Arts (HFA) <sup>1</sup>	3
African-American Hist and Cult (AA) <sup>1</sup>	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		
Sophomore Year: First Semester		Sophomore Year: Second Semester	
Course	CR	Course	CR
ASME 251 (Fund MY/CY)	3	PHYS 305 (Math Phys)	3
ASME 252 (Fund MY/CY Lab)	1	ASME 231 (Atmos Thermo)	3
MATH 231 (CAL III)	4	MATH 224 (Into Prob & Statistics)	3
PHYS 241 (General Phys I)	3	PHYS 242 (General Phys II)	3
PHYS 251 (General Phys I Lab)	1	PHYS 252 (General Phys II Lab)	1
Social/Behavioral Sciences (SBS) <sup>1</sup>	3	Global Awareness (GL) <sup>1</sup>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
Junior Year: First Semester		Junior Year: Second Semester	
Course	CR	Course	CR
ASME 433 (Atmos Dyn I)	3	ASME 422 (Wea Anal & Forec)	4
ENGL 331 (Writing for Sci & Tech)	3	ASME 434 (Atmos Dyn II)	3
PHYS 400 (Phys Mech)	3	ASME 385 (Climatology)	3
PHYS 411 (Atmos Phys I)	3	PHYS 345 (Compu Phys)	3
Technical Elective <sup>4</sup>	3	ASME Elective <sup>2-1</sup>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
Senior Year: First Semester		Senior Year: Second Semester	
Course	CR	Course	CR
ASME 492 (Atmos Seminar)	1	ASME 492 (Atmos Seminar)	1
ASME Elective <sup>2-2</sup>	3	ASME 496 (Senior Project)	6
PHYS Elective <sup>3</sup>	3	ASME Elective <sup>2-3</sup>	3
Technical Elective <sup>4</sup>	3	PHYS Elective <sup>3</sup>	3
Free Elective	3	<b>Semester Total</b>	<b>13</b>
Free Elective	3		
<b>Semester Total</b>	<b>16</b>		

**Total Credit Hours: 120**

<sup>1</sup>Courses may only satisfy ONE general education requirement GL, AA, SBS, or HFA (e.g. LIBS202 can satisfy HFA or AA, but not both).

<sup>2-1</sup>ASME Elective: Course must be chosen from ASME: 211 (Compu MY), 234 (Wea & Clim Stu), 275 (WX Sys), or 285 (Broadcast MY).

[Note that: ASME 234 can be taken in earlier years as a free/tech elective.]

<sup>2-2</sup>ASME Elective: Course must be chosen from ASME: 423 (WX Anal II), 420 (Trop MY), 430 (Polar MY), or 440 (Atmos Chem).

<sup>2-3</sup>ASME Elective: Course must be chosen from ASME: 463 (Remote Sensing), 470 (Atmos Modeling), 480 (Syn Dyn), 481 (Atmos Fluid Dyn), or 491 (Chem & Opti Instru).

<sup>3</sup>PHYS Elective: Course must be chosen from PHYS 4xx: 401 (Phys Mech II), 412 (Atmos Phys II), 415 (E&M I), 416 (E&M II), 420 (Quan Phys I), 430 (Thermo & Stat Mech), 440 (Appl Geophys), 447 (Adv Lab), 475 (Compu Tech in Phys), 485 or 494 (Under Research).

<sup>4</sup>Technical Electives (6 credits): Courses must be in Mathematics, Science or Engineering.

\*ASME 496: Capstone Course

Free electives (6 credits)