

Appendix B

Bachelor of Science in Atmospheric & Climate Sciences

JPB24264

| BS Total Credits | | Cognate | Science Core | Atmospheric & Climate Sci. Core | Gen. Ed. |
|-------------------|-----------------------------------|------------|--------------------|--------------------------------------|------------|
| 120 | | 10 | 12 | 40 | 58 |
| Semester 1 | | | Semester 2 | | |
| MTR 150 | Meteorology (SI) | 4 ACS core | BIO 150 | Science of Climate Change (IL/SI) | 4 ACS core |
| MAT 100 or 133 | Intermediate Math or Pre-Calculus | 3 gen ed. | MAT 118 (or 133) | Elementary Applied Math (QR) | 3 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) | 4 gen ed. |
| Semester Total | | 14 | Semester Total | | 14 |
| Semester 3 | | | Semester 4 | | |
| PHY 120 | General Physics I (algebra-based) | 4 SCI core | PHY 121 | General Physics II (algebra-based) | 4 SCI core |
| CS 140 | Introduction to Programming | 4 cognate | ACS 2XX | Quant. Concepts in Atm. & Cli Sci. | 4 ACS core |
| CHE 110 | Gen. Chemistry I | 4 gen ed. | XXX 111 | General Education Elective (HW) | 3 gen ed. |
| XXX 111 | General Education Elective (OC) | 3 gen ed. | XXX 111 | General Education Elective (W1) | 3 gen ed. |
| | | | XXX 111 | General Education Elective (CP) | 3 gen ed. |
| Semester Total | | 15 | Semester Total | | 17 |
| Semester 5 | | | Semester 6 | | |
| MTR 231 | Weather Analysis & Forecasting | 4 ACS core | XXX 111 | General Education Elective | 4 gen.ed. |
| MAT 120 | Statistics (QR) | 3 cognate | ES 210 | Physical Oceanography & Climate | 4 ACS core |
| ACS 3XX | Data Acquisition and Analysis | 3 ACS core | XXX 111 | General Education Elective (IC) | 3 gen.ed. |
| 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 | | 17 |
| Semester 7 | | | Semester 8 | | |
| ACS 4XX | Concepts in Climate Modeling (CE) | 3 ACS core | MTR 430 | Instrumentation & Remote Sensing | 4 ACS core |
| XXX 111 | General Education Elective (OC) | 4 gen ed. | MTR 370 or MTR 450 | Capstone: Intern or Research (CE/W3) | 4 ACS core |
| 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) | 3 gen ed. |
| Semester Total | | 13 | Semester Total | | 14 |