

**SOIL, ENVIRONMENTAL & ATMOSPHERIC SCIENCES B.S. DEGREE WITH  
EMPHASIS IN ATMOSPHERIC SCIENCE  
(128 credit hours)**

**University Requirements (32-34 credits)**

Eng 1000 -Exposition and Argumentation (3 cr) FWS  
Course to fulfill State Law Requirement (3 cr)  
*(History 1100, 1200, or 1400 or Political Science 1100 or 1700)*  
Economics/Business Elective (3 cr)  
Comm 1200 – Introduction To Speech and Communication (3 cr) FWS  
Humanistic Studies and Fine Arts electives (9 cr)  
Math 1100 – College Algebra (3 cr) FWS **or**  
Math 1160 - Precalculus Mathematics (5 cr) FW  
Stat 1400 - Statistical Analysis (3 cr) FWS  
Chem 1310 - General Chemistry I (2 cr) FWS  
Chem 1320 - General Chemistry II (3 cr) FWS

**Departmental Quantitative Skills (19 credits)**

Math 1500...Analytical Geometry and Calculus I (5 cr) FWS  
Math 1700 - Calculus II (5 cr) FW  
Math 2300 - Calculus III (3 cr) FW  
Math 4100 - Differential Equations (3 cr) FW  
AtmSci 4800 - Numerical Methods in Atmospheric Sci. (3 hr) F

**Departmental Sciences (10 credits)**

Phys 2750 - University Physics I (5 cr) FW  
Phys 2760 - University Physics II (5 cr) FW

**Departmental Requirements (48-53 credits)**

Soil and Atmospheric Sciences (6 cr)

Atm Sci 1050 - Introduction to Meteorology (3 cr) FW **or**  
Atm Sci 1110 - Introduction to Atmospheric Science (3 cr) W  
Soils 2100 - Introduction to Soil Science (3 cr) FW **or**  
Soils 3290 - Soils and the Environment (3 cr) F

Computer Science (3 cr)

Agric 1111 - Computing and Information Systems I (3 cr) FW **or**  
Natr 1080 – Computer Applications in Natural Resources (2 cr) FW **and**  
Natr 1090 – Beginning GIS for Natural Resources (1 cr) FW

Capstone Experience (3 cr)

Atm Sci 4990 – Weather Analysis and Forecasting (3 cr) W

Communications (3 cr) *Choose one from the following (See your advisor for other courses)*

Engl 2030 - Professional Writing (3 cr) FWS  
Comm 3575 - Business and Professional Speech Comm. (3 cr) F  
Comm 3576 - Persuasive Speaking (3 cr) FW  
Ag Jour 3210 - Fundamentals of Communications (3 cr)

*Those desiring a career in broadcast meteorology should consider the following:  
(See your advisor for more offerings)*

Thea 1400 - Acting for Non-majors (3 cr)

Comm 2100 - Media communication in Society (3 cr)

Comm 2315 - Basic Audio Production and Performance (3 cr)

Comm 3390 - Television Studio Production (3 cr)

Comm 3395 - Television Field Production (3 cr)

Additional Emphasis Area Requirements (33-38 cr)

AtmSci 2720 - Weather Briefing (1 cr) W

AtmSci 4710 - Synoptic Meteorology I (4 cr) F

AtmSci 4720 - Synoptic Meteorology II (4 cr) W

AtmSci 4500 - Instrmnt., Exprmnt., and Observ. (3 cr) bian. **or**

AtmSci 4510 - Remote Sensing for Met. and Nat. Res. (3 cr)

AtmSci 4550 - Atmospheric Physics (3 cr) biannually

AtmSci 4350...Mesoscale Meteorology and Dynamics (3 cr)

AtmSci 4310 - Atmospheric Thermodynamics (4 cr) F

AtmSci 4320 - Atmospheric Dynamics (4 cr) W

*Additional credit in meteorology (choose two) (4 - 9 cr)*

AtmSci 3000 - Independent Study (1 - 3 cr) arranged

AtmSci 4050 - Fundamentals of Meteorology (3 cr)

AtmSci 3600 - Climates of the World (3 cr) biannually

AtmSci 4949 - Internship in Meteorology (1 - 6 cr) arranged

*Choose one course from the following sample applied topics (3 cr)*

*(See your advisor for more choices)*

AtmSci 4520 - Mtrolog. of the Biosphere (3 cr) biannually

AtmSci 4400 - Micrometeorology (3 cr) biannually

AtmSci 4650 - Long Range Forecasting (3 cr) biannually

Geol 4100 - Hydrogeology (3 cr)

Geol 2200 - Oceanography (3 cr)

ChemEng 4311 - Chemodynamics (3 cr)

ChemEng 4312 - Air Pollution Control (3 cr)

**Electives (12–19 cr)**

*Remaining hours from university, quantitative, science, and department to complete 128 credit hours total requirement.*