

THE UNIVERSITY OF NORTH CAROLINA ASHEVILLE

FACULTY SENATE

Senate Document Number SD6124S

Date of Senate Approval 05/02/2024

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Statement of Faculty Senate Action:

**APC Document 50 (ATMS):**                    **Change description and prerequisite for  
ATMS 315, Radar and Satellite Meteorology;  
Change prerequisite for ATMS 316, Mesoscale Meteorology**

**Effective Date: Fall 2024**

1.     **Delete:** On page 95, the entry for **ATMS 315, Radar and Satellite Meteorology:**

**315                    Radar and Satellite Meteorology (3)**  
          Theory and application of radar and satellite remote sensing to atmospheric sciences.  
          Weather analysis and forecasting, and climatological implications. Prerequisites:  
          ATMS 204; **PHYS 222**. See department chair.

**Add:** On page 95, in place of deleted entry:

**315                    Radar and Satellite Meteorology (3)**  
          Theory and application of radar and satellite remote sensing techniques to the  
          atmospheric sciences. Prerequisite: ATMS 204. See department chair.

**Impact:** Removal of the PHYS 222 prerequisite for ATMS 315 will open the course to all junior- and senior-level atmospheric sciences majors, regardless of major concentration. Enrollment in ATMS 315 is likely to increase, but this change will have no impact on funding or staffing needs.

**Rationale:** Noting that PHYS 222 is not required for Certified Broadcast Meteorologist (CBM) certification, and that ATMS 315 is the only ATMS course that specifically requires PHYS 222 as a prerequisite, it is possible to reduce the credit hour burden on broadcast meteorology students by removing the PHYS 222 prerequisite. According to the course instructor, Dr. Caitlin Crossett, all necessary foundational material on radiation principles is presented entirely within the ATMS 315 course. PHYS 222 will remain required for the Weather Forecasting and Climatology concentrations and recommended for students in the Broadcast Meteorology concentration.

2.     **Delete:** On page 95, **ATMS 316, Mesoscale Meteorology:**

**316                    Mesoscale Meteorology (3)**  
          Atmospheric processes in the scale of 10 to 1000 km including tornadoes,  
          thunderstorms and tropical cyclones; application of current data to mesoscale  
          analysis and forecasting. Prerequisites: ATMS 204. See department chair.

**Add:** On page 95, in place of deleted entry:

**316 Mesoscale Meteorology (3)**

Atmospheric processes on a scale of 10 to 1000 km, including tornadoes, thunderstorms, and tropical cyclones; application of current data to mesoscale analysis and forecasting. Pre- or corequisite: ATMS 204. See department chair.

**Impact:** The change to the prerequisite broadens the target audience and allows second-year atmospheric sciences majors to enroll when this class is offered in the spring semester. This change has no impact on funding or staffing needs.

**Rationale:** Mesoscale meteorology is a popular course among atmospheric sciences majors and is required for eligibility for the American Meteorological Society's Certified Broadcast Meteorologist program. Under a separate Fall 2024 APC proposal from the Department of Atmospheric Sciences, this course will become required for the broadcast meteorology concentration and remain an elective for the weather forecasting and climatology concentrations. With the present prerequisite in place, the instructor must provide registration overrides for all students who want to take this concurrently with ATMS 204. Since ATMS 204 covers the equations of motion that are further analyzed in ATMS 316, the instructor (Dr. Miller) has agreed that changing ATMS 204 to a pre- or corequisite for ATMS 316 is appropriate.

All faculty in the Department of Atmospheric Sciences agree with these changes.