

THE UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE  
FACULTY SENATE

Senate Document Number 2913S

Date of Senate Approval 01/24/13

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Statement of Faculty Senate Action:

**APC Document 24:**

**Addition of a corequisite for ATMS 310,  
Atmospheric Kinematics and Dynamics**

**Effective Date:** Fall 2013

**1. Delete:** On page 88, the entry for ATMS 310, Atmospheric Kinematics and Dynamics:

**310 Atmospheric Kinematics and Dynamics (3)**

The motion of the earth's atmosphere in relation to the forces acting upon the fluid. Equations of motion, circulation, vorticity, divergence, viscosity, turbulence and atmospheric energy. Prerequisite: ATMS 305. Spring.

**Add:** On page 88, new requirements of ATMS 310, Atmospheric Kinematics and Dynamics:

**310 Atmospheric Kinematics and Dynamics (3)**

The motion of the earth's atmosphere in relation to the forces acting upon the fluid. Equations of motion, circulation, vorticity, divergence, viscosity, turbulence and atmospheric energy. Prerequisite: ATMS 305; pre- or corequisite: MATH 291. Spring.

**Impact Statement:** The added corequisite is already a graduation requirement for each of the concentrations in the Atmospheric Sciences major and will not require the expenditure of new resources. The concurrence of the chair of the Math Department is included in the application packet.

**Rationale:** The added corequisite (Calculus III) is a response to students in the past who have delayed enrolling in the course, awaiting an offering when the "best" professor in mathematics will be assigned to teach it. The corequisite provides essential mathematical tools needed to successfully navigate the concepts of Atmospheric Kinematics and Dynamics (ATMS 310) and other ATMS courses that follow in the major course sequence. All faculty in the atmospheric sciences department are in agreement with this proposal.