

THE UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE

FACULTY SENATE

Senate Document Number 3812S

Date of Senate Approval 02/09/12

Statement of Faculty Senate Action:

**APC Document 28: Change the requirements for the Concentration in Climatology
 in Atmospheric Sciences**

Effective Date: Fall 2012

1. Delete: On page 84, the entry under the **Concentration in Climatology:**

- I. Required courses in the major--- 36 hours, including: ATMS 103 or 113, 205, 230, 241, 251, 261, 305, 310, 320, 405, 410, 411, 420, 455. CSCI 181 may be substituted for ATMS 230.
- II. Required courses outside the major--- 31 hours distributed as follows: CHEM 111, 132; MATH 191, 192, 291, 394; PHYS 221, 222; STAT 225. Recommended courses: MATH 341 and STAT 321.
- III. Special departmental requirements--- Major competency is demonstrated by a senior comprehensive exam. Oral competency is demonstrated as part of the senior comprehensive examination. Formal preparation for this is in ATMS 410 and 411. Computer competency is demonstrated through completion of either ATMS 230 or CSCI 181.

Add: On page 84, in place of deleted entry:

- I. Required courses in the major--- 40 hours, including: ATMS 103 or 113, 205, 223, 230, 241, 251, 261, 305, 310, 320, 405, 410, 411, 420, 455, and 3 additional hours of ATMS at the 300-400 level. CSCI 181 may be substituted for ATMS 230.
- II. Required courses outside the major--- 26 hours distributed as follows: CHEM 132; MATH 191, 192, 291, 394; PHYS 221, 222. Additional courses in Statistics and Mathematics are recommended.
- III. Special departmental requirements--- Major competency is demonstrated by a senior comprehensive exam. Oral competency is demonstrated as part of the senior comprehensive examination. Formal preparation for this is in ATMS 410 and 411. Computer competency is demonstrated through completion of either ATMS 230 or CSCI 181.

Impact:

Eliminating CHEM 111 and STAT 225 as requirements outside of the major will reduce student demand for these courses. The added ATMS class in the requirements (ATMS 223) will not create additional teaching burden as this course has already been offered during even years in the fall semester and will not result in any staffing or other course changes.

Rationale:

The proposed changes are to encourage coursework that meets the federal GS-1340 requirements for employment as a meteorologist and to create added distinction between the Climatology and Weather Forecasting concentrations. The additional required hours of the ATMS courses are necessary to meet these federal requirements. Older versions of the course catalog merely recommended that students enroll in these courses. By adding these requirements, the ATMS Department can rightfully claim that graduates in our program meet the federal requirements for employment in the federal sector as meteorologists. All faculty in ATMS are in agreement with this proposal.