

Syllabus for Atm 721 Fall 2019:

Course:

Atm 721 Special Problems in Synoptic Meteorology
Fall 2019
Class Number: 9537
Credits: 2

Schedule:

Tu–Th 2:45 – 4:05 pm
Classroom: ES-223

Professor: Lance Bosart, ES-227, Ph: 442-4564, email: lbosart@albany.edu

Prerequisite:

Atm 511 and consent on instructor

Grading: S/U

Course Content and Scope:

Atm 721 will meet for 5–6 weeks between the first week of October and Thanksgiving. The course will be designed to reflect the interests of registered students who will conduct research on topics related to synoptic-dynamic meteorology. We will read and discuss classical papers in the refereed literature on topics that will be determined by the interests of registered students. Students may choose to work individually or in groups. Examples of group projects, chosen by students, could be: (1) extreme weather events, (2) predictability issues at the weather-climate interface, (3) high-impact major cyclogenesis events, (4) weather regime onset, persistence and decay, and (5) arctic-midlatitude interactions. Readings will be assigned on topics related to student-chosen research projects. Assigned readings will be discussed in class. Class time also will be utilized for students to report on their research projects and to solicit feedback from the group. The research projects will be presented in written and oral form at the end of the class, and should be appropriate for presentation at a workshop or conference. Written research projects should to be fully compliant with American Meteorological Society guidelines for submitting research papers for formal publication.

The course grading is S/U and there will be no homework or exams. Regular attendance, completion of the selected readings, participation in class discussions, and completion of the research project will be required for a satisfactory grade.