



# NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

## Course Syllabus

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### Course Information

<i>Course Number/Section</i>	ASME 492
<i>Course Title</i>	ASME Seminar
<i>Term</i>	Spring 2017
<i>Days &amp; Times</i>	4:00 – 4:50 W 307 Gibbs Hall

### Professor Contact Information

<i>Professor</i>	Dr. Jing Zhang
<i>Office Phone</i>	(336) 285-2337
<i>Email Address</i>	jzhang1@ncat.edu
<i>Office Location</i>	302G Gibbs Hall
<i>Office Hours</i>	9:30-2:30TR, or by appointment

### Course Pre-requisites, Co-requisites, and/or Other Restrictions

Fundamental Meteorology, Atmospheric Thermodynamics, Atmospheric Dynamics I, or equivalent.

### Course Description

This course focuses on analysis and modeling of weather and climate systems including but not limit to hurricanes, tropical meteorology and climatology, synoptic weather and climate, severe storms. Students are required to pursue research on a subtopic and make presentations of the results. In order to facilitate the scientific research and discussions, PIs and collaborators who are working on similar studies are welcome to attend and participate in the class.

### Student Learning Objectives/Outcomes

- Objective:** Use analytical thinking skills to evaluate information critically
- Outcome:** Students will demonstrate the ability to answer conceptual questions raised during their presentations.
- Objective:** Effectively relate basic ideas and concepts to more sophisticated atmospheric systems in tropics.
- Outcome:** Students will demonstrate the ability to summarize their research and present it to the class effectively and participate in discussions.

### Required Textbooks and Materials

*Required Texts*  
None

### Assignments & Academic Calendar

*Topics, Reading Assignments, Due Dates, Exam Dates*

### Presentation Schedule for ASME 510/PHYS 740/EES 992

Date	Pres. #	Presentation Title	Presenters
1/11	1	Introduction	Dr. Zhang
1/18	2	Weather briefing Student presentations	TBD (to be decided) TBD
1/25	3	Weather briefing Student presentations	TBD TBD
2/1	4	Weather briefing Student presentations	TBD TBD
2/8	5	Weather briefing Student presentations	TBD TBD
2/15	6	Weather briefing Student presentations	TBD TBD
2/22	7	Weather briefing Student presentations	TBD TBD
3/1	8	Weather briefing Student presentations	TBD TBD
3/6-10		Spring Break	
3/15	9	Weather briefing Student presentations	TBD TBD
3/22	10	Weather briefings Student presentations	TBD TBD
3/29	11	Weather briefing Student presentations	TBD TBD
4/5	12	Weather briefing Student presentations	TBD TBD
4/12	13	Weather briefing Student presentations	TBD TBD
4/19	14	Weather briefing Student presentations	TBD TBD
4/26	15	Weather briefing Student presentations	TBD TBD
5/3	16	Weather briefing Student presentations	TBD TBD

### Grading Policy

- (1) Attendance and participation in discussions 30%  
(2) Weather Briefing 30%  
(3) Presentations 40%

(Presentation material has to be submitted within a week of presentation)

Grading scale:

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
Scores	94-100	90-93	87-89	83-86	80-82	77-79	73-76	70-73	67-69	60-66	0-59

### Course Policies

*Make-up exams:* Not applicable

*Extra Credit:* No Extra Credit

*Late Work:* Not applicable

*Special Assignments:* Not applicable

#### *Class Attendance*

The College of Arts and Sciences requires students to be on time for class and to attend class on a regular basis. If the student has unexcused absences, is late for class or leaves class early, the student's grade may be lowered.

(See attendance policy set forth by the instructor in the course syllabus.)

Excused absences will comply with the following university policy on make up work:

“Sickness (verification needed); death of relative (immediate family); participation in an approved university related activity; acting in the capacity of a university representative (band, choir, sports, related travel, etc.); extraordinary circumstances including court appearances, family emergency~ at the discretion of the professor, etc. require a signed statement.

NOTE: “Other reasons for class absences are not acceptable.”

#### *Classroom Citizenship*

Normal classroom decorum is expected.

### **Technical Support**

If you experience any problems with your A&T account you may call Aggie Tech Support (formerly Help Desk) at 336.334.7195.

### **Field Trip Policies / Off-Campus Instruction and Course Activities**

**Student Affairs website** <http://www.ncat.edu/~staffair/>;

**Student Handbook:** <http://www.ncat.edu/~deanofst/Handbook.htm>;

**Student Travel Procedures and Student Travel Activity Waiver**

<http://businessfinance.ncat.edu/policies%20and%20procedures%20index.htm>

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at the website address: **Student Travel Procedures and Student Travel Activity Waiver**

<http://businessfinance.ncat.edu/policies%20and%20procedures%20index.htm>.

Additional information is available from the office of Student Affairs, please check the website at <http://www.ncat.edu/~staffair/>.

### **Compliance with the Americans with Disabilities Act**

North Carolina A&T State University is committed to complying with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 by providing equal access to the programs, services and benefits to qualified students with disabilities. All reasonable efforts will be made to accommodate the needs of students with documented disabilities. If you have a disability that requires an accommodation during the semester, please REGISTER with the Office of Veterans and Disability Service (OVDSS) located on campus in Murphy Hall (334-7765). Make sure that you notify OVDSS of any disability accommodation requests prior to the start of classes or within the first two weeks of classes. **Please note that accommodations and modifications cannot be performed retroactively!**

### **Other Policies (e.g., copyright guidelines, confidentiality, etc.)**

Student Handbook: <http://www.ncat.edu/~deanofst/Handbook.htm>

### **Family Educational Rights and Privacy Act**

[http://www.ncat.edu/~registra/ferpa\\_info/index.htm](http://www.ncat.edu/~registra/ferpa_info/index.htm)

### **Student Conduct & Discipline**

North Carolina A&T State University has rules and regulations that govern student conduct and discipline meant to ensure the orderly and efficient conduct of the educational enterprise. It is the responsibility of each student to be knowledgeable about these rules and regulations. Please consult the undergraduate

[http://www.ncat.edu/~acdaffrs/Bulletin\\_2008-2010/2008\\_2010\\_Undergraduate\\_Bulletin.pdf](http://www.ncat.edu/~acdaffrs/Bulletin_2008-2010/2008_2010_Undergraduate_Bulletin.pdf)

and graduate bulletins: 2008-2010 Graduate Catalog.doc

<http://www.ncat.edu/~gradsch/cstudents.html> and student handbook

<http://www.ncat.edu/~deanofst/Handbook.htm> for detailed information about specific policies such as academic dishonesty, cell phones, change of grade, disability services, disruptive behavior, general class attendance, grade appeal, incomplete grades, make up work, student grievance procedures, withdrawal, etc.

***These descriptions and timelines are subject to change at the discretion of the Professor.***

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01.27.09 – Submitted to Faculty Senate by LEW