## ATM F673, Introduction to Micrometeorology

Course Description: This course gives comprehensive explanation rolicrometeorology, its basic theories of physics, mechanismi, measurement procedures another the solution and how micrometeorological processes interand affect the meso and largescale atmospheric motion. Example applications of this course can be the weather conditions lasting less than a day in the area immediately scales of solutions between the solution of the

Instructor: Javier Fochesatto Email: foch@gi.alaska.edu Office: IARC 315 –x7602 Office hours: Friday 10 AM to 12 AM or by appointment Class Days:TBD (usuallyTuesday and Thursday Class time TBD (usually 2:00 PM to 3:30 PM

them inb equations; solve fundamental problems related to the basics of micrometeorology and quantitatively describe how they typically occur in micrometeorological applications (e.g. surface and trace gas fluxes, air **evapiby** ranspiration, turbulence, Bowen ratio and eddy covariance methods). Fundamental goals are that you develop skills to analyze and interpret micrometeorological data and identify micrometeorological processes. This includes application of learned material together in a new context to solve a problem where micrometeorological variables plays a fundamental role.

Student Learning Outcomes: (1)Understand the micrometeorological processes and put them into equ(20)o6s lve fundamental problems related to the basics of micrometeorolo(39) Learn to develop skills to analyze and interpret micrometeorological data(4) Identify micrometeorological processed (5) Know how to write a research paper.

Blackboard: You need to download and are the material posted. It is your responsibility to apply for an **bra E** account because Blackboard access is only available with that account. Will be hooked up automatically for access to Blackboard when you register for this class. However, if objectives occur with this automatic procedure and you cannot log in, send the instructor an email so that the instructor will verify the email address, enroll you into Blackboard manually, and set up your Blackboard account for this class.

Attendance: You must attend class regularly and use the required book. Class attendance and participation inlates in exercises/discussions are required and will be a part of your grade. Missing 50% of the classes will result in an Fd labseaccose results in loss of attendance points. If you miss class you will also miss discussion of homework. Excused absences are approved in advance or absences due to a documented emergency. Such documentation must be made immediately upon the student's return to class. Please destand that this is a college courseou are expected to be on time for class and have all the required material unpacked.

Computer Simulation Classes:

the homework. If you cannot prest or do not have the omework whenyou are chosen to be the presenter, you will get an F. If homework is assigned as a group task, every group member must be able to answer questions related to the presentation or or presentation. The group homework will be graded for completeness, correctness, understanding, presentation, discussion (50%) how the group worked as a team (50%). This grading on group work is to learn efficient teamwork, because future resteasch ques will require more and more teamwork.

No late homeworkwill be accepted except in excused absences). Late homework should be submitted in readable style. "Readable style" means typed, doubtepaced, using at least a 12-point font,-imme margins, and ihard copy format. It is simply too tricky to yi-8(r

office center can be reached at 456655. I will work with the office to provide reasonable accommodations for students with disabilities.

4. Any student who is an UAF sponsored athletic or who has other personal or situational difficulty that might affect class performance is invited to contact me in the first week of the semester (or as soon as such matters emerge) so that way accommodating the difficulty may be anticipated.

5. Please also let me know if you have condition that could require direct medical attention (e.g. pregnancy, allergiesand ab otherchronic diseases).