

# ASEN 5210 Remote Sensing Seminar

Fall 2018

Instructor: Professor Y. Jade Morton

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Class Time: F 15:00-15:50PM  
Class Room Location: ECCR 150  
Instructor Office hours: F 16:00–17:00PM

**Overview:** This seminar course covers subjects pertinent to remote sensing of the Earth, including oceanography, meteorology, space weather, vegetation monitoring, and geology. Emphasizes techniques for extracting geophysical information from ground-based observations and satellite data. Formerly ASEN 6210.

**Prerequisites & Eligibility:** Restricted to College of Engineering (ENGR) graduate students or Aerospace Engineering Concurrent Degree (C-ASEN) majors only.

**Course Structure:** This course consists of weekly seminars presented by faculty and researchers. The speakers will provide reading materials such as a journal publication, conference paper, magazine article, etc. to introduce the students to the subject area. The presentation will be between 30 and 45 minutes, followed by questions and answers and discussions. One or two student(s) will be assigned to take attendance, lead the discussions, and take notes of the questions and discussions at each seminar.

**Seminar Schedule:** The table below shows the tentative schedule of the course.

Date	Speaker	Affiliation	Topics
08/31	Jade Morton	CU AES	Course overview, format, expectations
09/07	Michael Deluca	CU AES	Meteor ablation
09/14	Chris Rocken	GPS Solutions	GNSS remote sensing of atmosphere & ionosphere
09/21	Eric Sutton	CU SWxTREK	TBD
09/28	Xinzhao Chu	CU AES	McMurdo Lidar
10/05	Lakshmi Kantha	CU AES	Clash of the Titans, Boeing and Airbus: why they build what they build
10/12	Marcus Holzinger	CU AES	TBD
10/19	Xinlin Li	CU AES	TBD
10/26	Tomoko Matsuo	CU AES	TBD
11/02	Christopher Williams	CU AES	Vertical and airborne radar for precipitation sensing
11/09	Cinzia Zuffada	JPL	TBD
11/16	Robert Marshall	CU AES	TBD
11/30	Steve Nerem	CU AES	TBD
12/07	Jade Morton	CU AES	Satellite navigation & sensing: a match made in heaven
12/15	Jade Morton	CU AES	Semester wrap up. Student feedback.

**Grading Policy:** This is a pass/fail course. A student can miss one seminar without penalty. Student will be graded based on attendance and participation, and effort in leading a seminar. The grades are assigned as the following:

- Leading a seminar: 16%
- Each seminar attendance and participation: 6%
- 14 seminar attendance and participation: 84%
- Total: 100%
- Passing grade: 75%

**Class and University Policies:** Students are required to be familiar with the university policies highlighted below.

**Disabilities:** If you qualify for accommodations because of a disability, please submit to your professor a letter from Disability Services in a timely manner (for exam accommodations provide your letter at least one week prior to the exam) so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities. Contact Disability Services at 303-492-8671 or by e-mail at [dsinfo@colorado.edu](mailto:dsinfo@colorado.edu). If you have a temporary medical condition or injury, see [Temporary Medical Conditions](#) under the Students tab on the Disability Services website and discuss your needs with your professor. This course requires the use of the Zoom conferencing tool which is currently not accessible to users using assistive technology. If you use assistive technology to access the course material, please contact your faculty member immediately to discuss.

**Religious Obligations:** Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please review the assignment calendar for this class and notify the instructor by email within the first 2 weeks of class if you have such a conflict. See full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html).

**Classroom Behavior:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on [classroom behavior](#) and the [Student Code of Conduct](#).

**Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation:** The University of Colorado Boulder (CU Boulder) is committed to maintaining a positive learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct, discrimination, harassment or related retaliation against or by any employee or student. CU's Sexual Misconduct Policy prohibits sexual assault, sexual exploitation, sexual harassment, intimate partner abuse (dating or domestic violence), stalking or related retaliation. CU Boulder's Discrimination and Harassment Policy prohibits discrimination, harassment or related retaliation based on race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Individuals who believe they have been subject to misconduct under either policy should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127. Information about the OIEC, the above referenced policies, and the campus resources available to assist individuals regarding sexual misconduct, discrimination, harassment or related retaliation can be found at the [OIEC website](#).

**Honor Code:** All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to [the academic integrity policy](#). Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, resubmission, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-735-2273). Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code Council as well as academic sanctions from the faculty member. Additional information regarding the academic integrity policy can be found at the [Honor Code Office website](#).