



**MISSISSIPPI STATE**  
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**PSS/ECE/FO/GR 4411/6411 – Remote Sensing Seminar – Face-to-face  
Wednesdays 11:00 – 11:50 am in [Greenhouse 104](#)**

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**Instructor:** Dr. J. Bryan Whittenton  
**Phone:** 662-325-6949  
**Office:** [Rice Hall 502](#)  
**E- mail:** [jbw373@msstate.edu](mailto:jbw373@msstate.edu)  
**Office Hours:** By appointment  
**Communication:** Email is the preferred method of communication for this course

**Course Description**

PSS 4411/6411: One hour lecture. (Prerequisite: Junior Standing). Lectures by remote sensing experts from industry, academia, and governmental agencies on next-generation systems, applications, and economic and societal impact of remote sensing (Same as ECE 4411/6411, FO 4411/6411, GR 4411/6411).

**Required Materials:**

There is no textbook requirement for this course. Students are encouraged to conduct literature reviews online through the [MSU University Libraries](#).

**Course Structure**

Weekly presentations will be given by guest speakers followed by a question-and-answer session with the presenters. Student participation in the question-and-answer session will factor into the final grade for the course.

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### **Expected Learning Outcomes**

Upon completion of this course, the successful student will:

1. Have a fundamental understanding of the broader applications of remote sensing technology,
2. Possess the ability to discuss specific remote sensing technologies and how they apply to different fields,
3. Be able to implement remote sensing technology into their chosen field of study.

### **Class Time and Organization**

The class lectures meet face-to-face.

If you have difficulties logging into the course portal on Canvas, help is available online through the [ITS Service Desk](#) or by phone (662) 325-0631. Do not contact the instructor for technical issues related to Canvas learning technology.

### **Course Progress and Participation**

Students are expected to:

- Attend every class meeting and complete a short discussion, assignment, or quiz following each meeting,
- Complete all coursework independently and without input or knowledge from your fellow students,
- Participate equally in the team presentation.

### **University Syllabus**

The Mississippi State University Syllabus contains all policies and procedures that are applicable to every course on campus and online. The policies in the University Syllabus describe the official policies of the University and will take precedence over those found elsewhere. It is the student's responsibility to read and be familiar with every policy. The University Syllabus may be accessed at any time on the provost website under Faculty and Student Resources and at:

<https://www.provost.msstate.edu/faculty-student-resources/university-syllabus>

**Undergraduate Student Course Assessments**

**Attendance and Participation**

All students are required to attend class each week in person and participate in question-and-answer sessions. Credit will be given for attendance and participation. Simply showing up to class but never participating in discussions will result in reduced points allocated for attendance and participation. Students that accumulate more than one unexcused absence will receive an automatic 11% reduction in their final grade.

**Discussions, Assignments, and Quizzes**

Discussions, assignments, and/or quizzes will be available on Canvas after each weekly presentation. Discussions, assignments, and/or quizzes not submitted by the Wednesday at 10:50 am following each class will result in an automatic zero grade. For example, for the guest lecture the week of August 28<sup>th</sup> – if the quiz is not submitted by 10:50 am on Wednesday, September 4<sup>th</sup> – all quiz points will be forfeited. Students not in attendance for the guest lecture will receive an automatic zero on all discussions, assignments, and quizzes relating to the guest lecture.

**Undergraduate Student Essay**

Undergraduate students will write an essay on an emerging technology related to remote sensing. Additional assignment instructions can be found on the Canvas course website.

**Undergraduate Student Standards of Achievement**

The following table lists the tentative grading schedule for the course. These values are subject to change.

<b>Assessment Methods for Undergraduate Students</b>	<b>Unit Points (Each)</b>	<b>Weighted Portion of the Final Grade</b>
Attendance and Participation	10	40%
Discussions, Assignments, and Quizzes	10	40%
Undergraduate Essay	100	20%
Total		100%

Scale:  
 A = 100-90.00%  
 B = 89.99-80.00%  
 C = 79.99 – 70.00%  
 D = 69.99 – 60.00%  
 F <= 59.99%

**Graduate Student Course Assessments**

In addition to the assessments for undergraduate students, graduate students are expected to complete the following assignments in accordance with [MSU AOP 11.04](#). The graduate student essay replaces the undergraduate student essay assignment for graduate students.

**Graduate Student Essay**

Graduate students will write an essay on an emerging technology related to remote sensing. Additional assignment instructions can be found on the Canvas course website.

**Graduate Student Presentations**

Graduate students will develop and present a 10-minute presentation about their essay topic. Points will be given for presentation quality and peer reviewed rubrics. The rubrics for presentation quality and peer review evaluation will be provided when topics are finalized. All submitted peer review evaluations will remain confidential.

**Graduate Student Standards of Achievement:**

The following table lists the tentative grading schedule for the course. These values are subject to change.

<b>Assessment Methods for Graduate Students</b>	<b>Unit Points (Each)</b>	<b>Weighted Portion of the Final Grade</b>
Attendance and Participation	10	20%
Discussions, Assignments, and Quizzes	10	20%
Graduate Student Essay	100	40%
Graduate Student Presentation	100	20%
Total		100%

Scale:  
 A = 100-90.00%  
 B = 89.99-80.00%  
 C = 79.99 – 70.00%  
 D = 69.99 – 60.00%  
 F <= 59.99%

## **Course Policies**

### **Email Etiquette**

Emails sent to the instructor that do not contain a subject line, the class you are enrolled in, does not address the instructor professionally, or does not end with an appropriate salutation will be deleted. Emails are responded to during the times listed below in the Office Hours section of the course policies. Students may email the instructor at any time, but they may not receive a response immediately.

### **Canvas Inbox**

Messages sent through the Canvas Inbox will be deleted. All questions should be sent to the professor through email.

### **Office Hours**

Office hours are by appointment and must be made through email. Do not come to the office without an appointment. The meeting will start at the time agreed upon. The meeting will not be extended if the student shows up late.

All emails requesting an appointment should contain the following information and be sent from your MSU email account. Emails sent from a non-MSU email address or not containing the following information will be deleted.

1. Your name
2. The class you are currently enrolled in (PSS/ECE/FO/GR 4411/6411)
3. The subject of the meeting (Questions/Topics to be covered)
4. At least two (2) times you are available to meet

### **Attendance Policy/Excused Absences**

Students are expected to attend all scheduled classes. Attendance will be recorded at the beginning of each class. Students arriving late or leaving early from class will be counted as absent. It is the student's responsibility to initiate arrangements for missed work due to excused absences before the date of the excused absence. Students with low attendance will be referred to the Dean of Students. Excused absences are explained in the [AOP 12.09](#). Students that accumulate more than one unexcused absence will receive an automatic 11% reduction in their final grade.

### **Assignment Submission Deadlines**

Assignments submitted after the deadline receive an automatic zero grade. Late submissions will not be accepted without an excused absence. Students missing assignment deadlines or exams due to excused absences must inform the instructor by email before the assignment is due. No assignments will be accepted through email.

### **Handwriting**

Illegible handwritten assignments and exam answers will receive an automatic zero grade.

### **Grade Disputes**

At some point in this course, you may disagree with the grade you earn on an assignment. A grade review may result in a higher, lower, or the same as the grade initially given for the assignment.

Here are the guidelines to follow in the case of a grade dispute:

1. Students must wait a minimum of 24 hours after grades are posted to think about the grade, review the assignment or test, and respond to the instructor in writing. Grades will only be reviewed if students provide a written response explaining their perspective and rationale concerning the grade. This written response must be sent through email.
2. Students' arguments should be well-reasoned and based on evidence. There should be a good rationale for why the grade should be changed.
3. The written argument must be submitted within seven (7) days of the time the work was returned or the grade was posted to Canvas, whichever occurs first. After seven days, no grades will be considered for change.
4. Once the instructor receives the email, a meeting will be scheduled during office hours to discuss the dispute and review the grade.

### **Extra Credit**

Extra credit is solely within the instructor's discretion and will be offered only to the entire class. Extra credit will not be offered on an individual basis.

### **Final Grades**

Final grades are submitted to the university on the standard scale. Grades are not rounded or curved. Students who request rounded or curved final grades (grade bumping) will receive an automatic 1% reduction in their final grade for the course.

### **Disruptive Behavior**

Disruptive behavior will be reported to the Dean of Students.

### **Computer Use and Cell Phones in the Classroom**

The use of electronic devices is prohibited in the classroom. This policy includes smartwatches.

#### **Academic Operating Policy 10.08 [Classroom Regulations](#)**

In order to limit classroom disruptions, as well as to protect against academic misconduct, the use by students of cell phones, messaging devices, laptops, tablets, smartwatches, and other electronic devices is prohibited in the classroom unless authorized by the instructor or by a student's accommodation through the Disability Resource Center.

## **Honor Code**

All submitted work will be checked for plagiarism using Turnitin.

All assignments are to be completed solely by the student submitting the work. Collaborating with other students in the completion of assigned work without written approval by the course instructor is cheating and will result in a report to the Honor Code office, expulsion from the class, and a failing grade for all students involved. Therefore, students should assume that all assignments are to be completed individually. This policy prohibits the use of Generative AI for completing assignments.

All violations of the Student Honor Code will be reported to the MSU Honor Code office along with an Honor Code Violation Narrative, a Student Honor Code Violation Report Form, and a Student Honor Code Disciplinary Option Form. Violations of the Student Honor Code include cheating on a test/assignment, fabrication of data or results, falsification of results or academic records, multiple submissions, plagiarism, complicity, academic fraud, and violation of rules.

There will be no warnings for violating the Student Honor Code. Sanctions will occur on the first offense. Ignorance of the honor code is not an excuse. It is the student's responsibility to understand the AOP 12.07 Student Honor Code (<https://www.policies.msstate.edu/policy/1207>)

## **Generative AI**

The following policy follows the guidance of the Provost's Generative Artificial Intelligence (GAI) Working Group [Report on Generative Artificial Intelligence \(GAI\) and Instruction](#).

Upon accepting admission to Mississippi State University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor Code. These rules make clear that a student's submitted work must be their own. This principle includes content created by generative artificial intelligence (GAI) tools. Students will be required to state their commitment to the honor code on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the MSU community from the requirements or the processes of the Honor Code. For more information, visit: <https://honorcode.msstate.edu/policy>.

Generative AI tools are computer programs, including online applications that use artificial intelligence methods or processes to create content, including but not limited to text, images, video, audio, computer code, or other data. Mississippi State University expects students to adhere to policies regarding academic integrity, including the use of GAI tools such as ChatGPT, Bard, CoPilot, DALL-E3, and any other GAI tools available or developed in the future. The University recognizes that the introduction of GAI may provide opportunities for scholarly rigor, intellectual inquiry, and educational excellence. Individual instructors are encouraged to establish class-specific guidelines concerning the use of GAI within their courses. The student must consult the syllabus for each class to determine if and to what degree use of GAI is allowed. In the absence of a stated policy in a course syllabus, students must assume that the inclusion of GAI-generated content in course activities, assignments, or examinations is not permitted and will be considered a violation of the university Honor Code.



**Course Schedule**

This course schedule is tentative and may change throughout the semester.

<b>Potential Speakers</b>
Madison Dixon MSU Agricultural Autonomy Institute
Peter Summerlin MSU Dept. of Landscape Architecture
Tyson Raper University of Tennessee
Amelia Fox MSU Dept. of Plant and Soil Sciences
Shawn Lambert MSU Dept. of Anthropology
Fran DeVille Climate Corporation
Bronson Strickland MSU Wildlife, Fisheries, and Aquaculture
Christopher Hudson MSU Center for Advanced Vehicular Systems
Forestry and Right of Way Utilization of Remote Sensing
Joby Czarnecki Geosystems Research Institute
Randi Robison U.S. Army Corps of Engineers
Jeremy Cooper Cooperative Energy
Caden Teer MSU Raspert Flight Laboratory

**Disclaimer:**

All information included in this syllabus may be changed at any time according to the instructor's discretion.

**Course Copyright**

The content of this course, including publisher materials and content linked from external websites, is protected by U.S. Copyright law. This includes all materials generated for this class, including but not limited to syllabus, exams, in-class materials, and lecture outlines. Course materials (including videos, papers, notes, quizzes, exams, etc.) may be downloaded or copied for personal use only and may not be given or sold to other individuals or uploaded to content sharing websites. Permission to record any synchronous or asynchronous aspects of the class without prior consent is denied. Videotaping of classroom lectures is prohibited.

<http://copyright.gov/title17>.