AE 398 – Brazil Spring Semester 2024

Course Structure:Credit:Lecture / Discussion section once per week2 hours11:00am - 12:50pm on Tuesdays203 Noyes Lab

Course Objectives:

This course will provide an exciting and immersive introduction to the aerospace industry in Brazil and its connections to aerospace in the United States. Throughout this course, students will be able to:

- Work productively and efficiently as a member of a design team solving an aerospace problem
- Identify exciting new projects and opportunities within the constantly changing and diverse field of aerospace engineering
- Communicate their ideas effectively using both written and verbal methods
- Appreciate the contributions of diverse team members

Instructors:	Brian S. Woodard, Ph.D.	Wayne Chang, Ph.D.	Laura Gerhold
Office Hours Location:	315 Talbot Laboratory	Talbot Laboratory	329 Talbot Laboratory
E-mail:	bswoodrd@illinois.edu	wlchang@illinois.edu	gerhold@illinois.edu
Office hours:	Wednesdays, 4 - 5pm	By appointment	By appointment

Course Website: https://canvas.illinois.edu/

The Canvas website for this course will be used for listing important course announcements, posting class presentations, and submitting assignments (in-class and homework).

Other websites will be used for the second team project when the Brazilian students join the class (they cannot access Canvas).

Grading:	Attendance at all course meetings/events and Class Participation			
	Project #1 team presentation	15%		
	Preliminary Design Reviews for group project #2	5%		
	Final Design Review for group project #2) – paper	25%		
	Peer Reviews from teammates for both projects	15%		
	Participation and journaling during the trip	15%		
	Post-trip reflection	10%		
	Grades will be assigned using the standard letter grade definitions with +/			

List of Course Topics in Tentative Order:

Cultural Intelligence

Privilege

Group Project Introduction

Technical writing and presentation skills

Logistics: scheduling, visas, vaccines, funding

Working in diverse teams and why that is actually valuable

Brazilian Culture and History with guest speakers

Introductory Portuguese language

Commercial Aviation/Embraer History and basic principles of aircraft operation

Local trip to Embraer maintenance facility at FlightStar at Willard airport

Team presentations for design project challenge

Group presentations of Brazilian current events topics

Absence Policy:

Your attendance at all scheduled classes is mandatory and essential for your success in the course. However, circumstances occasionally occur where you need to miss a class.

Planned Absences: If you need to miss class for a religious observance or another legitimate reason, you must make arrangements to make up the missed work at least one week before the absence occurs. Otherwise, the absence will be considered unexcused.

Illness / Family Emergency: Do not attend class if you are sick. We must all work together to avoid spreading COVID-19 (or any other illness) in our community.

If you are ill or experiencing a family emergency and are unable to attend class or complete an assignment by the deadline, e-mail the instructor as soon as possible. Arrangements will be made to make up the in-class exercise or extend the homework deadline.

Mental Health:

Significant stress, mood changes, excessive worry, substance/alcohol misuse or interferences in eating or sleep can have an impact on academic performance, social development, and emotional wellbeing. The University of Illinois offers a variety of confidential services including individual and group counseling, crisis intervention, psychiatric services, and specialized screenings which are covered through the Student Health Fee. If you or someone you know experiences any of the above mental health concerns, it is strongly encouraged to contact or visit any of the University's resources provided below. Getting help is a smart and courageous thing to do for yourself and for those who care about you.

- Counseling Center (217) 333-3704
- McKinley Health Center (217) 333-2700
- National Suicide Prevention Lifeline (800) 273-8255
- Rosecrance Crisis Line (217) 359-4141 (available 24/7, 365 days a year)

If you are in immediate danger, call 911.

Anti-Racism and Inclusivity Statement:

This course is committed to the creation of an anti-racist, inclusive community that welcomes diversity along a number of dimensions, including, but not limited to, race, ethnicity and national origins, gender and gender identity, sexuality, disability status, class, age, or religious beliefs. This course recognizes that Black, Hispanic, and Indigenous voices and contributions have largely either been excluded from, or not recognized in, science and engineering, and that both overt racism and micro-aggressions threaten the well-being of our students and our university community.

The effectiveness of this course is dependent upon each of us to create a safe and encouraging learning environment that allows for the open exchange of ideas while also ensuring equitable opportunities and respect for all of us. Everyone is expected to help establish and maintain an environment where students, staff, and faculty can contribute without fear of personal ridicule, or intolerant or offensive language. If you witness or experience racism, discrimination, micro-aggressions, or other offensive behavior, you are encouraged to bring this to the attention of the course director if you feel comfortable. You can also report these behaviors to Campus Belonging Resources (https://diversity.illinois.edu/diversity-campus-culture/belonging-resources/). Based on your report, Members of the Office of the Vice Chancellor for Diversity, Equity & Inclusion staff will follow up and reach out to students to make sure they have the support they need to be healthy and safe. If the reported behavior also violates university policy, staff in the Office for Student Conflict Resolution may respond as well and will take appropriate action.

Academic Integrity:

Violations of academic integrity are unacceptable.

In this course you are expected to produce your own work in all assignments.

Written assignments will be submitted through SafeAssign, a software tool that compares your writing against a large database as well as to the work of your current classmates and previously submitted assignments. Assignments with close matches to other work will be flagged and investigated.

The University of Illinois at Urbana-Champaign Student Code should also be considered as a part of this syllabus. Students should pay particular attention to Article 1, Part 4: Academic Integrity. Read the Code at the following URL: http://studentcode.illinois.edu/.

Academic dishonesty may result in a failing grade. Every student is expected to review and abide by the Academic Integrity Policy: https://studentcode.illinois.edu/article1/part4/1-401/.

Ignorance is not an excuse for any academic dishonesty. It is your responsibility to read this policy to avoid any misunderstanding. Do not hesitate to ask the instructor(s) if you are ever in doubt about what constitutes plagiarism, cheating, or any other breach of academic integrity.

Disability-Related Accommodations:

To obtain disability-related academic adjustments and/or auxiliary aids, students with disabilities must contact the course instructor and the as soon as possible. To ensure that disability-related concerns are properly addressed from the beginning, students with disabilities who require assistance to participate in this class should contact Disability Resources and Educational Services (DRES) and see the instructor as soon as possible. If you need accommodations for any sort of disability, please speak to me after class, or make an appointment to see me or see me during my office hours. DRES provides students with academic accommodations, access, and support services. To contact DRES you may visit 1207 S. Oak St., Champaign, call 333-4603 (V/TDD), or e-mail disability@illinois.edu. http://www.disability.illinois.edu/.

Sexual Misconduct Reporting Obligation:

The University of Illinois is committed to combating sexual misconduct. Faculty and staff members are required to report any instances of sexual misconduct to the University's Title IX and Disability Office. In turn, an individual with the Title IX and Disability Office will provide information about rights and options, including accommodations, support services, the campus disciplinary process, and law enforcement options.

A list of the designated University employees who, as counselors, confidential advisors, and medical professionals, do not have this reporting responsibility and can maintain confidentiality, can be found here: https://wecare.illinois.edu/resources/students/#confidential

Emergency Response Recommendations:

Emergency response recommendations can be found at the following website:

http://police.illinois.edu/emergency-preparedness/.

For more information, review this website and the campus building floor plans.

http://police.illinois.edu/emergency-preparedness/building-emergency-action-plans/.