

The Future of Rain Forests

IDS 2935
Fall 2023

Instructor

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Teaching Assistant

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Class Sessions

Tuesdays 11:45-1:40 and
Thursdays 12:50-1:40

Locations

FLG-0280 (T)
LIT-0237 (Th)

This course investigates the fundamental issues addressed by scientists studying tropical rain forests, including what gave rise to their remarkable biodiversity, the drivers and consequences of deforestation, why people are fascinated by rain forests, cultural stereotypes about the tropics, and if forest conservation is compatible with socioeconomic development. **By the end of the course students will be able to:**

- Recognize and describe stereotypes about rain forests & their residents
- Analyze rain forest tropes in art, literature, & popular culture
- Discuss & evaluate hypotheses for the origins and maintenance of tropical biodiversity
- Explain & compare human history in rain forests
- Review contemporary threats to rain forests
- Analyze and visualize data on deforestation
- Review and contrast strategies for rain forest conservation & restoration
- Identify rain forests in their daily lives & set personal goals for advancing their conservation
- Produce materials for communicating about rain forests to family and peers



GenEd and Quest Information

A minimum grade of C is required for Quest and General Education credit. Courses intended to satisfy Quest and General Education requirements cannot be taken S-U. **This course fulfills the following Quest and GenEd requirements:**

- Quest 2
- GenEd Biological Sciences
- GenEd International
- Credits: 3
- Prerequisites: None



Required Course Materials

Students are not required to purchase any textbooks or course materials; all materials, including readings and videos, will be available on the course Canvas page. However, many of the assigned readings from the *New York Times* and *Washington Post* have dynamic multimedia data visualizations and video that can't be appreciated in the posted .pdf format. *Students in this class should sign up for free online access to the New York Times and Washington Post* by following the instructions at [this UF Libraries Website](#).

Materials and Supplies Fees: None.



Instructor and TA Office Hours

Instructor: Wednesday and Friday 10:30-11:45 am either in-person (*directions to lab below*) or via zoom (*link on class canvas page*). You can drop by anytime during session or you can sign can up for a specific time slot in advance at embruna.youcanbook.me. *If you can't make it one of those days, let me know and we will find a time that works for you.*

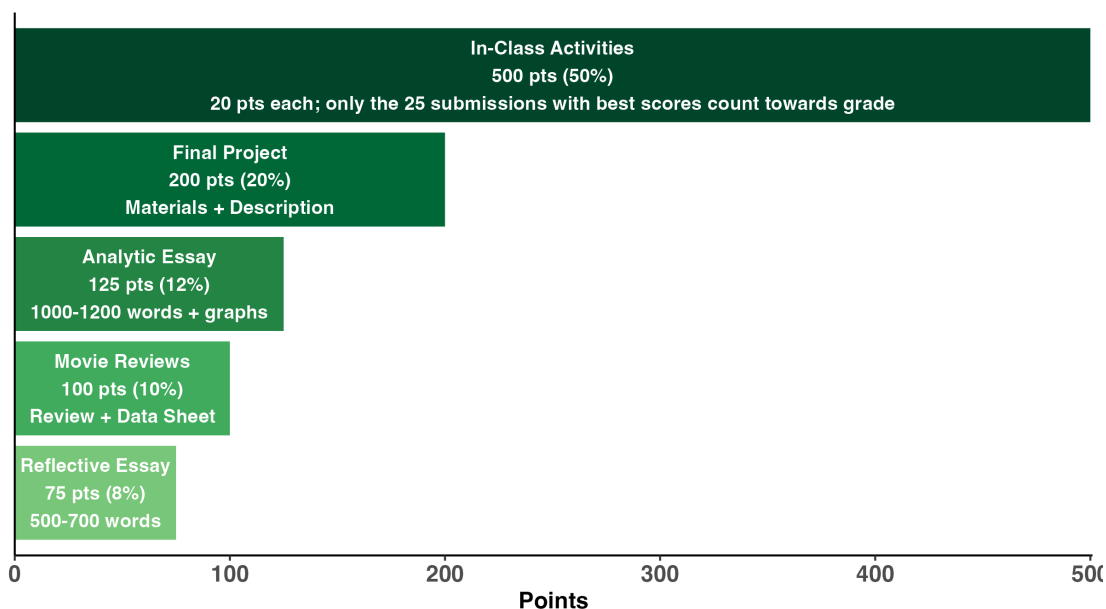
Teaching Assistant: Monday and Tuesday 2:00 pm-3:00 pm via zoom or in-person.

Location: The Tropical Ecology & Conservation Lab Lab (*aka the Rain Forest Cafe*) is located at 711 Newell Drive; for a map to the lab click the "Contact" link at BrunaLab.org.

Assignments, Grades, & Participation

Learning in our class is achieved with an diverse array of methods ranging from data analysis to essays to projects. In most class sessions you will also be working with small groups of students to complete an in-class assignment that reinforces the major themes of the day's topic. In keeping with the philosophy of the Quest program, this course also has *Experiential Learning and Self-Reflection Components*. For details on the different types of assignments and the Quest Learning Components, see course Canvas page.

✿ Assignments (1000 points total)



In-class Assignments are due by the following class session. Late assignments will lose 10 pts.

Regrades: Requests for re-evaluation of assignments must be accompanied by an explanation for why you think you deserve additional credit and the number of additional points you think you deserve. The deadline for submission is one week after the work was returned.

Grade Assignment (based on % of total points earned): A = 94–100%, A- = 90–93%, B+ = 87–89%, B = 84–86%, B- = 80–83%, C+ = 77–79%, C = 74–76%, C- = 70–73%, D+ = 67–69%, D = 64–66%, D- = 60–63%, E < 60

Grade Points: For information on how UF assigns grade points, visit:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>



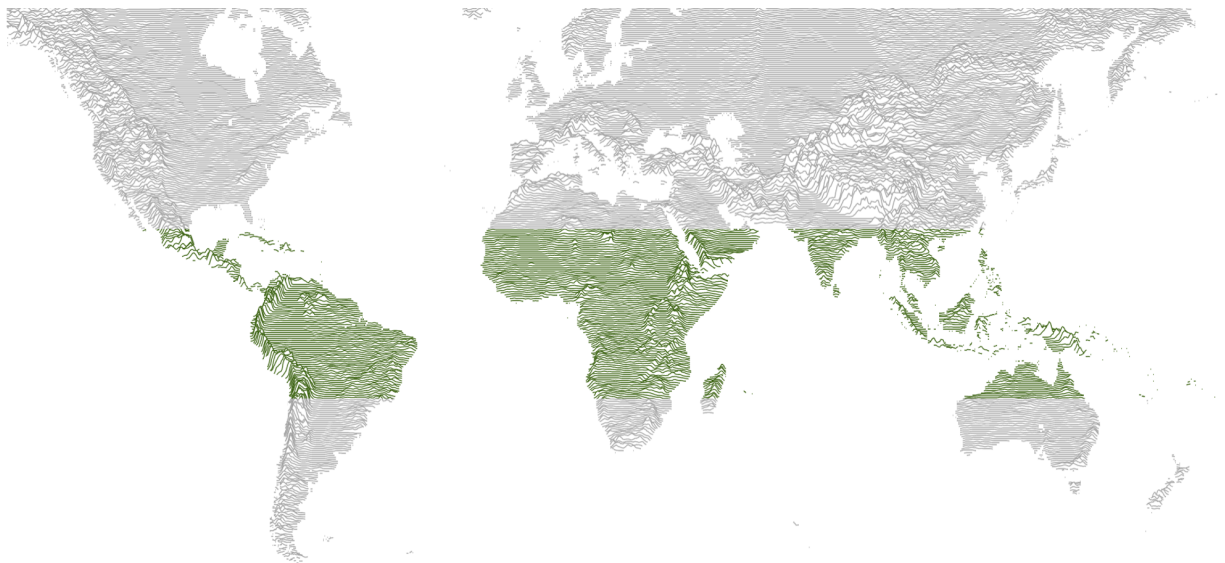
Attendance and Participation

Attendance: Though attendance is not required, many of the sessions we will be completing activities in class that count towards your grade. Most of these can be completed independently, but by doing them in class you will benefit from working collaboratively with the other students.

Some of the in-class activities can not be completed outside of class time. If you miss class on one of these days, that is why the grade for in-class activities is based on a subset of the total activities; you can also elect to make up lost points with extra-credit assignments. *If you need to miss class for any reason, please let me know as soon as possible.* We will make arrangements for you to complete any assignments and go over any material you will be missing. I would much rather you focus on your health, attend your conference, or support friends and family in need than struggle to turn in assignments.

Participation: Consistent informed, thoughtful, and considerate class participation is encouraged (and in some cases required). *If you have personal issues that prohibit you from joining freely in class discussion (e.g., shyness, language barriers, medical condition): no problem.* let us know and we will discuss alternative modes of participation.










Important note regarding class discussions and group work: We will explore some challenging, important problems and increase our understandings of different perspectives and approaches for addressing them. These conversations may not always be easy; we sometimes will make mistakes in both how we communicate our perspective and what we hear other say. There may be times when we need patience, courage, imagination, and of course mutual respect to engage our texts, classmates, instructors, guests, and our own ideas and experiences. *Disrespectful or disruptive behavior will not be tolerated.* And always remember that as scholars we must employ critical thinking, rely on data, and cite verifiable sources and experts to interrogate all assigned readings and subject matter in this course as a means of determining if we agree with classmates and instructors. No lesson is intended to espouse, promote, advance, inculcate, or compel a particular feeling, perception, viewpoint or belief.



Semester Overview & Key Dates

WEEK	DATE	TOPIC	ASSIGNMENT DISTRIBUTED or DUE
WHY ARE WE FASCINATED BY TROPICAL RAIN FORESTS?			
Week 1	1	22-Aug	Class Starts Thursday!
	2	24-Aug	Course Welcome and Introduction
Week 2	1	29-Aug	Historical Narratives
	2	31-Aug	Rain forest imagery in Art & Lit
Week 3	1	5-Sep	The Rain Forest in Pop Culture
			Movie Reviews Assigned
THE ECOLOGY & EVOLUTION OF TROPICAL RAIN FORESTS			
	2	7-Sep	What is a Rain Forest?
Week 4	1	12-Sep	What else is a Rain Forest?
	2	14-Sep	Patterns of Biodiversity 1
Week 5	1	19-Sep	Patterns of Biodiversity 2
	2	21-Sep	Origins of tropical biodiversity
Week 6	1	26-Sep	Maintenance of tropical biodiversity - FLMNH Trip
	2	28-Sep	The Paradox of Luxuriance & Forest disturbance
Week 7	1	3-Oct	Humans are part of rain forests
	2	5-Oct	Narratives Revisited: Biology, History, Fiction, Reality
			Movie Reviews Due
Week 8	1	10-Oct	JUNGLE FILM FESTIVAL (Evening Screening, 7 pm)
THE DRIVERS AND IMPACTS OF DEFORESTATION			
	2	12-Oct	How much Tropical Rain Forest is there?
Week 9	1	17-Oct	How much Tropical Rain Forest have we lost?
	2	19-Oct	Drivers of Deforestation: Timber, Mining, Infrastructure
			Analytic Essay Assigned
Week 10	1	24-Oct	Drivers of Deforestation: Agriculture
	2	26-Oct	Climate change and Tropical Forests
THE FUTURE OF TROPICAL RAIN FORESTS			
Week 11	1	31-Oct	Addressing Climate change
	2	2-Nov	Consumer choices
			Analytic Essay Due
Week 12	1	7-Nov	DURIAN FEST
	2	9-Nov	International frameworks
			Reflective Essay Assigned
Week 13	1	14-Nov	Local Initiatives, Empowered Communities, & Activism
	2	16-Nov	Protected areas
			Reflective Essay Due
Week 14	1	21-Nov	Project Work Day
	2	23-Nov	No class - Thanksgiving
			Final Project Assigned
Week 15	1	28-Nov	Forest restoration & regeneration
	2	30-Nov	Tropical Rain Forests & Global Health
Week 16	1	5-Dec	Rain Forest Headlines / What will you do?
	2	7-Dec	No Class - Reading Days
Finals Week	14-Dec	Finals Week	Final Day to Submit Work

FREQUENTLY ASKED QUESTIONS

	What is the best way to contact the instructors?	Email sent via Canvas That's also how we will respond.
	Can you give me one good reason why I should go to Office Hours?	I can give you ten. (1) To introduce yourself. (2) To get clarification on assignments. (3) To discuss topics that came up in class. (4) There is free tea, coffee, or espresso in our lab kitchen. (5) You can check to make sure you understood the key points from a class session. (6) We can give you feedback on ideas for course projects. (7) Get advice on successfully navigating college. (8) Ask questions about how to gain experience for your post-graduation goals. (9) To get help arranging a study group. (10) You don't need a good reason...just come on by.
	How will you send announcements to the class?	Canvas! Check the course Canvas page for announcements and be sure you are receiving Canvas emails and updates.
	What work should we do <i>before</i> class?	Read, watch, listen to, or review all materials assigned for the session. This material will set the stage for the in-class activities.
	What will we do <i>during</i> class? When is 'in-class' work due?	In-class exercises that reinforce key concepts, discussions of the assigned readings, and let you practice skills in other assignments. Some are completed individually, while others require working in groups or pairs. Each activity will have instructions and a rubric; most are designed to be finished in class. <i>In-class work is due one week from the date it was assigned.</i>
	What if I miss class?	Attendance is not required, but in many of the sessions we will be completing activities in class that count towards your grade. Most of these can be completed independently, but by doing them in class you will benefit from working collaboratively with the other students. Some of the in-class activities, however, can not be completed on your own. That's why only a subset of the in-class assignments count towards your grade and we offer extra credit.
	I know I will miss class on a certain date. What should I do?	Let us know as soon as possible so we can make arrangements for you to review material you will miss and complete assignments.
	Class discussions are difficult for me. Will this affect my grade?	No! If there are issues that make engaging in discussions difficult (e.g., shyness, language barriers, a medical condition), let us know and we will find alternative modes of participation.
	I have no child care today. My kid's school was cancelled. My partner can't stay with our baby. What should I do? Can I bring my kid to class?	UF does not have a policy on children in the classroom; the following is my commitment to student-parents. I never want students to feel they have to choose between feeding their baby and their education. <i>You and your nursing baby are welcome in class anytime</i> ; I also don't want parents to feel they must chose between attending class or staying home to care for kids, so <i>occasionally bringing your kid to class because of a gap in child care is also acceptable</i> . If you do bring your child to class, please sit close to the exit so that you can more easily step outside if you need to care for them (and so other students can continue learning). Non-parents in the class: please help by offering your seat near a door to parents. Finally, I understand that balancing school, childcare and perhaps also a job can be exhausting and a barrier to learning. I maintain the same high standards for all students in my class, and will work with you to find ways to balance your responsibilities as a parent and student. Let me know how I can help.

Weekly Reading/Viewing

Please review the assigned material before class.

All items are posted on the Canvas site. Topics & readings are subject to change based on current events; changes will be announced via Canvas.

WEEK 1

Wk 1-2: Course Introduction

Read: None

WEEK 2

Wk 2-1: Historical Narratives

Goal: To introduce and discuss how historical narratives by the first Europeans to visit the tropics have shaped contemporary perceptions of tropical rain forests and the colonial roots of tropical biology

Read: Excerpts from Historical Narratives [6 pages: [link](#)]

Watch: John Maggio, Hannah Olson, Ark Media, John Maggio Productions, & American Experience Films (Producers), & Maggio, J. (Director). (2018). Into the Amazon. [Video/DVD] Public Broadcasting Service. Retrieved from <https://video.alexanderstreet.com/watch/into-the-amazon>

Wk 2-2 Rain Forest Imagery in Art & Literature

Read: Excerpts from Literature/Poetry [link](#) (5 pages)

Review: Images of artwork [[link](#)] (4 pages)

WEEK 3

Wk 3-1 The Rain Forest in Pop Culture

Goal: To compare the presentations of rain forests by the global film and music industry and evaluate how these depictions influence perceptions of tropical countries & people.

Read: Jolly, Priscilla. 2021. 'Godzilla vs. Kong': Monster movies evoke adventure but also 'dangers' of tropics. The Conversation. [[link to read online](#)] (4 pages)

Read: Rose, Steve. 2016. "From Tarzan to Avatar: the problem with 'the white man in the jungle' ". The Guardian [[link to read online](#)] (newspaper story, 5-10 min. read)

Wk 3-2 What (and where) is a Rain Forest?

Goal: To learn the different ways biologists define the "tropics" and how the structure and dynamics of tropical rain forests differ from those of forests in other parts of the world.

Watch: Why Does Earth Have Deserts? [[link to video](#)]; 2 min long]

Watch: Emma Napper, British Broadcasting Corporation, ZDF, T., Tencent, & France Télévisions (Producers), & Napper, E. (Director). (2016). Jungles. [Video/DVD] BBC Worldwide. Retrieved from <https://video.alexanderstreet.com/watch/Jungles-2>

WEEK 4

Wk 4-1 What else is a Rain Forest?

Goal: To understand the geological history of tropical rain forests, how climate, fire, and geological history drive the tipping point between forests and savannas, and how this biogeographic, geological, and climatic history shaped the evolution of tropical plants and animals

Read: “Ch. 4: Finding animals in the rainforest” from Kricher, J.C. (2017). The new neotropical companion. In *The New Neotropical Companion*. Princeton Univ. Press (13 pp)

Wk 4-2 Patterns of Biodiversity 1

Goal: An overview of (a) diversity gradients and (b) local patterns of species richness and abundance in tropical forests and (c) how these differ from the temperate zone

Read: We will be using iNaturalist in class. You can familiarize yourself in advance by reviewing the iNaturalist website <https://www.inaturalist.org/> after reading this: Matthew Earl Boone and Mathieu Basille. Using iNaturalist to contribute your nature observations to science (UF EDIS Document WEC413) [link]

Watch: Why Are There So Many Species Near the Equator? [link to video, 4:50 long]

WEEK 5

Wk 5-1 Patterns of Biodiversity 2

Goal: To observe and catalog the diversity of plant and animal life forms that can be found in rain forests and review hypothesized mechanisms for the origins of tropical diversity.

Watch: Ingrid Kvale, & British Broadcasting Corporation (Producers), & Kvale, I. (Director). (2021). *Borneo: Sacred Forest*. [Video/DVD] BBC Worldwide. Retrieved from <https://video.alexanderstreet.com/watch/borneo-sacred-forest>

Wk 5-2: Origins of Tropical Biodiversity

Goal: To understand how interspecific interactions led to the (co)evolution and diversification of tropical biodiversity

Read: “Ch. 3: The Realm of Plants” from Kricher, J. C. (2017). The new neotropical companion. In *The New Neotropical Companion*. Princeton University Press. (18 pp).

Watch: An introduction to Army Ants: [link to video, 9 min long].

Watch: See also this Army Ant Video by the BBC: [link to video, 3 min long].

Watch: A closer look at the Army Ant Birds: [link to video, 14 min long].

WEEK 6

Wk 6-1: Maintenance of Tropical Biodiversity

Goal: To review the biotic and abiotic mechanisms in tropical rain forests that permit the coexistence of so many species.

Watch: Is this the biggest flower in the world? “BBC Earth: Corpse Flower Stinks of Death” [link to video, 4 min long].

Watch: A slightly less dramatic video in which you can get a better idea of the flower's size: [\[here\]](#), 3 min long]

Watch: Maybe this is the biggest flower: The Titan arum [\[link to video\]](#), 2 min long]

Wk 6-2: The Paradox of Luxuriance & Forest Disturbance

Goal: To understand how such a productive biome can be built on such low-quality soils, and explore the implications of this "Paradox of Luxuriance".

Read: Langewiesche, William. 2022. "The War for the Rainforest." NY Times. [\[read online\]](#)

WEEK 7

Wk 7-1 Humans are Part of Rain Forests

Goal: To understand the history of human occupation of rain forests including the contemporary demographic transition from rural to urban occupation; to review the different ways in which humans have historically modified rain forests and how this has shaped current rain forest biodiversity.

Watch: Kristine Allington, Michael Amundson, Linithd Aparicio, & Caitlin Saks (Producers), & Townsley, G. (Director). (2023). Ancient Builders of the Amazon. [Video/DVD] Public Broadcasting Service. Retrieved from <https://video.alexanderstreet.com/watch/ancient-builders-of-the-amazon>

Wk 7-2 Narratives Revisited: Biology, History, Fiction, Reality

Watch: Anthony Bourdain's Parts Unknown: Congo (S1E8) [\[link to video\]](#), 50 min long].

Read: Bourdain's Field Notes: Congo [\[read online\]](#), 5 min read].

Listen: NPR's Throughline Podcast: "There Will Be Bananas" 1. NPR's Throughline Podcast: "There Will Be Bananas" [\[listen online\]](#), 56 min].

WEEK 8

Wk 8-1 JUNGLE FILM FESTIVAL

Read: 1-2 readings TBD based on movie chosen.

Wk 8-2 How much tropical rain forest is there?

*Goal: To learn how forest cover is defined and estimated and how it varies globally

Read: Nolen, Stephanie (Reporting) with Elkaim, Aaron Vincent (Photographs). 2018. "Inside the Amazon's Deforestation Crisis". The Globe and Mail. [\[read online\]](#), 20 min read].

WEEK 9

Wk 9-1 How much tropical rain forest have we lost?

Goal: To use forest cover data to estimate rates of tropical forest loss over time

Read: Searcey, Dionne (reporting) and Gilbertson, Ashley (photographs). 2022 "Raft by Raft, a Rainforest Loses Its Trees" NY Times. [\[read online\]](#), 10 min read].

Read: Devouring the Rain Forest. Washington Post. [\[read online\]](#), 20 min read].

Wk 9-2 Drivers & Consequences of Deforestation: Mining, Timber, Fire, Infrastructure

Goal: Learn (a) how deforestation and other human activities alter the structure & functioning of rain forests, and (b) compare how these drivers differ between the African, American, and Asian tropics.

Read: Andreoni, Manuela, Blacki Migliozi, Pablo Robles and Denise Lu. Photographs by Victor Moriyama. 2022. "The Illegal Airstrips Bringing Toxic Mining to Brazil's Indigenous Land". NY Times. [[read online](#), 15 min read].

Read: Andreoni, Manuela. 2022. "Stopping wildfires before they start". NY Times. [[read online](#), 10 min read].

WEEK 10**Wk 10-1 Drivers & Consequences of Deforestation: Agriculture**

Goal: Continue learning (a) how deforestation and other human activities alter the structure & functioning of rain forests, and (b) compare how these drivers differ between the African, American, and Asian tropics.

Read: Robles, Pablo, Anuradha Raghu, Adam Majendie and Jin Wu 2021. "The World's Addiction to Palm Oil Is Only Getting Worse". Bloomberg News. [[read online](#), 10 min read].

Read: Mason, Margie & McDowell, Robin. 2020. "Palm oil labor abuses linked to world's top brands, banks". Associated Press. [[read online](#), 10 min read].

Wk 10-2 Climate Change and Tropical Forests

Goal: Climate change and Tropical Forests To understand the relationship between tropical forests, deforestation, and the global climate cycle.

Watch: BBC News: Amazon rainforest: 'Once it's gone, it's gone forever' (interview with Erika Berenguer). [[link to video](#), 3 min long].

Read: Pearce, Fred. 2018. "Rivers in the Sky: How Deforestation Is Affecting Global Water Cycles." Yale360. [[read online](#), 10 min read].

WEEK 11**Wk 11-1 Addressing Climate Change**

Read: Serkez, Yaryna. 2020. Every Place Under Threat. NY Times. [[read online](#), 10 min read].

Read: learn about the EN-ROADS simulator we will be using in class at this [[link to website](#), 15 min read]. You can even start experimenting with it here: [[link to site](#)].

Wk 11-2 Consumer Choices

Goal: To understand how global production and chains and consumer demand in Europe and North America influence patterns of deforestation in tropical countries.

Read: Carodenuto, Sophia. 2021. "Chocolate fix: How the cocoa industry could end deforestation in West Africa". The Conversation. [[read online](#), 10 min read].

Read: Lawal, Shola. 2020. "Our Endless Appetite For Chocolate Has Bitter Environmental Consequences" Huffington Post. [[read online](#), 10 min read].

Read: Hunt, Chris and Premathilake, Rathnasiri. 2018. “Prehistoric people started to spread domesticated bananas across the world 6,000 years ago.” The Conversation. [[read online](#), 5 min].

Read: Optional: Mufson, Steven and Georges, Salwan. 2019. “The trouble with chocolate” Washington Post [[read online](#) to see the amazing maps, pictures, and data visualizations.

Read: Optional: Williams, Wyatt. 2021. “How Your Cup of Coffee Is Clearing the Jungle”. NY Times. [[read online](#)] Longer, but really gripping and the article includes a link to an audio version if you prefer to listen to it.

WEEK 12

Wk 12-1 DURIAN FEST 2022

Goal: To learn about the global market in tropical fruit crops and the economic impact of tropical fruit production in Florida.

Read: Weintraub, Karen. 2019. “They’re Smelly and Spiky, and They Need Bats to Pollinate Them”. NY Times. [[read online](#), 5 min read].

Read: Wharton, Rachel. 2020. How the Tip of Florida Became a Tropical-Fruit Paradise. Atlas Obscura. [[read online](#), 5 min read].

Read: Frías, Carlos. 2022. “Oddly colored and somewhat phallic: How Miami’s rare tropical fruit went TikTok viral.” Miami Herald. [[read online](#), 5 min].

Wk 12-2 International Frameworks

Goal: To learn about the major local, national, and multi-national approaches to reducing deforestation by comparing their efficacy and socioeconomic impacts. REDD and Payment for Ecosystem Services.

Read: UN-REDD Programme: An introduction to REDD+ [[link](#)].

Note: this is a slide deck designed to introduce the REDD+ framework to a general audience. The content is exceptional, but don’t just read the material – think about how it is being presented (graphics, etc.) and if it effectively communicates their message. I’ve asked you do this not just to prepare for today’s lesson, but because it will be useful for your Final Project (TL;dr... the presentation is awful: busy slides, too much text, overly complicated graphics...we’ll talk about how it could be improved).

WEEK 13

Wk 13-1 Local Initiatives, Empowered Communities, Activism, & Philanthropy

Goal: To learn about how local communities are engaged in rain forest conservation and sustainable development efforts in the tropics and beyond.

Read: Ruth Maclean (reporting, writing), Caleb Kabanda (reporting), and Nanna Heitmann (photography). 2022. “What do the protectors of Congo’s peatlands get in return?” NY Times. [[read online](#), 10 min read].

Read: Kimbrough, L. 2021. “How settlers, scientists, and a women-led industry saved Brazil’s rarest primate”. Mongabay.com [[read online](#), 10 min read].

Read: Don’t underestimate what one person can do on their own: “BBC World Service: The man who grew his own rainforest” [[link to video](#), 5 min long] (keep an eye out for the

Euglossine bees we learned about earlier in the semester...you can see them collecting scented oil from flowers at 2:04).

Read: Arellano, Astrid and Sierra Praeli, Yvette. 2022. "A look at violence and conflict over Indigenous lands in nine Latin American countries". Mongabay.com . [[read online](#), 20 min read].

Wk 13-2 Protected Areas

Goal: To learn about different global categories of protected areas, the importance of protected areas in the tropics for conserving forest, and how the threats to protected areas vary regionally and globally.

Read: Dasgupta, Shreya (with research by Annika Schlemm & Zuzana Burivalova). 2017. "Do protected areas work in the tropics?" Mongabay.com. [[read online](#), 25 min read].

WEEK 14

Wk 14-1 Project Work Day.

Read: None

Wk 14-2 No class: Thanksgiving Holiday

Read: None

WEEK 15

Wk 15-1 Forest Restoration & Regeneration

Goal: To learn the difference between passive regeneration and active restoration and assess evidence for whether they can be used to reverse the effects of deforestation

Read: Medici, Patricia. 2015 TED Fellows Talk. "The coolest animal you know nothing about...and how we can save it". [[link to video](#), 11:20 min long].

Read: "Do tapirs defecate in the woods?" 2019. The Economist [[read online](#), 5 min read].

Read: Come prepared to make some money: we're looking into the economic benefits of setting aside land (or not) for conservation. To prepare, look this document over before class: [[link](#), 10-15 min read].

Wk 15-2 Tropical Rain Forests and Global Health

Goal: To learn about the relationship between deforestation and the emergence and spread of tropical diseases like Zika and Malaria from the tropics to other regions of the globe.

Read: Lavinias Picq, Manuela 2020. "Spreading Faith, and Disease". NY Times. [[read online](#), 15 min read].

Read: Vittor, Amy, Gabriel Zorello Laporta, and Maria Anice Mureb Sallum. 2020. How deforestation helps deadly viruses jump from animals to humans. The Conversation. [[read online](#), 15 min read].

Read: Kuchipudi, Suresh V. 2020. Why so many epidemics originate in Asia and Africa – and why we can expect more. The Conversation. [[read online](#), 10 min].

WEEK 16**Wk 16-2 Rain Forest Headlines / What will you do?**

Goal: To learn how journalists based in different countries or different global audiences chose and cover stories about rain forests and deal with the risks of covering this beat.

Read: Nicas, Jack (reporting) and Moriyama, Victor (Photos, Video). 2022. Inside the Amazon Journey That Left a Journalist and an Activist Dead. NY Times. [[read online](#), 15 min read]

Read: Jennifer Weeks. Ending Amazon deforestation: 4 essential reads about the future of the world's largest rainforest. The Conversation [[link](#)] (4 pages)

UF RESOURCES FOR STUDENTS

Health, Safety, & Wellness

Wellness and Mental Health: Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center*, 3190 Radio Road, 352-392-1575. They can provide Counseling Services, Groups and Workshops, Outreach and Consultation, a Self-Help Library, and Wellness Coaching. <http://www.counseling.ufl.edu/>.
- *U Matter, We Care*. If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website (www.umatter.ufl.edu/) to refer or report a concern and a team member will reach out to the student in distress.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352- 733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.

Field and Fork Pantry: The Hitchcock Pantry can provide food and toiletries for students experiencing food insecurity. <https://pantry.fieldandfork.ufl.edu/>.

Academic Services

The Writing Studio: The writing studio is committed to helping University of Florida students meet their academic and professional goals by becoming better writers. Visit the writing studio online at <http://writing.ufl.edu/writing-studio/> or in 2215 Turlington Hall for one-on-one consultations and workshops.

Career Connections Center: First Floor JWRU, 392-1601, <https://career.ufl.edu/>.

Student Success Initiative: <http://studentsuccess.ufl.edu>.

Student Complaints:

- for Residential Courses: <https://sccr.dso.ufl.edu/policies/student-honor-code-studentconduct-code/>.
- for Online Courses: <https://pfs.tnt.aa.ufl.edu/state-authorization-status/#student-complaint>

UF POLICIES



STUDENT ACCOMMODATIONS: Students with disabilities or learning barriers that would like to request academic accommodations should connect with the Disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. Please share your letter with me and discuss access needs as early as possible in the semester so that I can do whatever is necessary to ensure your participation and learning.



COURSE EVALUATIONS: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluer.com/ufl>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.



UNIVERSITY HONESTY POLICY: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: On my honor, I have neither given nor received unauthorized aid in doing this assignment. The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have questions or concerns, consult with the instructor or TAs.



SOFTWARE USE: All faculty, staff & students are required & expected to obey laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against UF policies & rules, disciplinary action will be taken as appropriate.



ATTENDANCE: Requirements for class attendance & make-up exams, assignments, and other work are consistent with UF policies found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.



IN-CLASS RECORDING: *Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are: (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. A ‘class lecture’ is: an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a UF course. A class lecture does not include: lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session. **Publication without permission of the instructor is prohibited. To ‘publish’ means:** to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. **A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.***

STUDENT LEARNING OBJECTIVES

B = Biological Sciences, Q2 = Quest 2

CONTENT	CONNECTION
<p>Students demonstrate competence in the terminology, concepts, theories, and methodologies used within the discipline(s)</p> <p>(1) Describe the evolutionary and ecological factors underlying the distribution of biodiversity in tropical rain forests. <i>Assessments:</i> In-class activities, Final Project. (B).</p> <p>(2) Distinguish (a) the different ways humans use and alter rain forests, and (b) the social, economic, and biological consequences of these activities. <i>Assessments:</i> In-class activities, Reflective Essay, Final Project. (B, Q2)</p> <p>(3) Explain how molecular biology, genomics, remote sensing, computational tools, and other scientific developments have advanced research on the ecology and evolution of rain forest biota. <i>Assessments:</i> In-class activities, Analytic Essay. (B).</p> <p>(4) Examine the historical factors that have shaped cultural perceptions of rain forests. <i>Assessments:</i> In-class activities, Movie Reviews, Final project. (Q2).</p> <p>(5) Analyze how narratives about rain forests are reflected in different types of contemporary cultural expression. <i>Assessments:</i> In-class activities, Movie Reviews, Final project. (Q2).</p> <p>(6) Distinguish between the primary drivers of forest loss and how they vary geographically. <i>Assessments:</i> In-class activities, Analytic Essay. (B, Q2)</p> <p>(7) Critique different proposed mechanisms for rain forest conservation. <i>Assessments:</i> In-class activities, Analytic Essay. (B, Q2)</p>	<p>Students connect course content with meaningful critical reflection on their intellectual, personal, and professional development at UF and beyond.</p> <p>(1) Examine the cultural, economic, and historical experiences of people in rain forest countries, how this compares with our preconceived notions of the same, and the consequences of this disparity for our scientific understanding of rain forests and their conservation. <i>Assessments:</i> In-class activities, Movie Reviews, Final Project (Q2).</p> <p>(2) Assess the feedbacks between (a) the actions of individuals, governments, and the private sector, (b) global economic, social, and political conditions, and (c) the status rain forests and the global climate cycle. <i>Assessments:</i> In-class activities, Reflective Essay, Analytic Essay (Q2).</p> <p>(3) Appraise the ubiquity of tropical forest products in daily life, the role and impact of the global commodity chains that make this possible, and the consequences of consumer behavior for forest conservation and socioeconomic sustainability. <i>Assessments:</i> In-class activities, Final Project (Q2).</p> <p>(4) Analyze the local, regional, and global ecosystem services provided by tropical rain forests, how these vary geographically, and some of the cultural and ecological factors responsible for these differences. <i>Assessments:</i> In-class activities, Reflective Essay, Analytic Essay, Final Project (Q2).</p>
COMMUNICATION	CRITICAL THINKING
<p>Students communicate knowledge, ideas and reasoning clearly and effectively in written and oral forms appropriate to the discipline(s)</p> <p>(1) Generate graphical analyses of quantitative data used to study rain forest biology and conservation (Q2, B). <i>Assessments:</i> In-class activities, Analytic Essay.</p> <p>(2) Compose summaries of research on multidisciplinary questions relevant to tropical forest biology and conservation based on logical arguments (Q2, B). <i>Assessments:</i> In-class activities, Analytic Essay, Final Project.</p> <p>(3) Develop audience-specific content and materials with which to communicate an important issue related to tropical forest biology and conservation. <i>Assessments:</i> In-class activities, Reflective Essay, Movie Reviews, Analytic Essay, Final Project (Q2).</p>	<p>Students carefully and logically analyze information from multiple perspectives and develop reasoned solutions to problems within the discipline(s).</p> <p>(1) Test hypotheses regarding trends in deforestation and how forest regeneration varies geographically with quantitative data on forest cover and use news stories, primary literature, and other sources to propose mechanisms responsible for the patterns observed. <i>Assessments:</i> In-class activities, Analytic Essay (B, Q2).</p> <p>(2) Analyze qualitative data on rural-urban migration and human demographic shifts in tropical countries and assess the potential implications of the results for conservation and broader societal issues. <i>Assessments:</i> In-class activities, Analytic Essay (B, Q2).</p> <p>(3) Explain the relationship between deforestation and the global climate cycle. Compare alternative policy pathways for reducing CO2 emissions using the En-ROADS global climate simulator. <i>Assessments:</i> In-class activities, Reflective Essay (B, Q2).</p>