Tropical Conservation Semester
Galapagos, Andes & Amazon

Study Abroad Program
Ecuador, South America

Ceiba Foundation for Tropical Conservation
University of Wisconsin
Universidad San Francisco de Quito
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Program Overview

The Tropical Conservation Semester: Galapagos, Andes & Amazon (TCS) undergraduate program in Ecuador offers in-depth training in tropical conservation and applied ecology. This unique program combines internships with conservation organizations, coursework in conservation biology of terrestrial and marine ecosystems, and immersion in Latin American culture. Offered by the Ceiba Foundation for Tropical Conservation in partnership with the Universidad San Francisco de Quito (USFQ) and the University of Wisconsin (UW), this program is ideal for students in both biological and social fields that seek interdisciplinary training in international conservation. Participants will enroll in the following sequence of courses:

1) Spanish Language & Cultural Immersion (3 cr.)
2) Conservation Biology (3 cr.)
3) Tropical Ecology I: Terrestrial Ecosystems (4 cr.)
4) Tropical Ecology II: Marine Ecosystems (4 cr.)
5) Conservation Internship (2 cr.)

Students travel throughout Ecuador together with faculty, and spend over half the semester at field sites that exemplify the diversity of tropical habitats and the efforts to conserve them. We explore the tundra-like páramo and lush cloud forests of the Andes, delve into the complexity of the Amazon rain forest, and immerse ourselves the living treasures of the Galápagos Islands.

Each student is paired with a host family in Quito with whom they reside over the course of the semester. You begin with a month of intensive Spanish language training at USFQ, Ecuador’s most prestigious academic institution. Coursework continues at numerous field sites, and covers natural history, adaptation and evolution, research methods, ecosystem management, biological monitoring, and conservation theory and practice. Spanish language is taught by USFQ staff, while instruction in ecology and conservation is provided by TCS faculty.

During the final month of the semester, each student conducts an internship or research project with an Ecuadorian conservation or development organization. Students may work on an ongoing program, or develop a new project jointly with the host organization. Opportunities include protected areas management, reforestation, biological monitoring, environmental education, or community development. The internships will allow students to apply what they have learned in their coursework and language training to gain first-hand experience in international conservation work.

The TCS program provides a special opportunity to travel to exotic and fascinating places, with astounding biodiversity and a rich and varied culture very different from our own. Participants in the Tropical Conservation Semester will acquire a thorough knowledge of the ecology of the world’s richest habitats, gain valuable language skills and cultural awareness, and obtain practical experience in conservation. Such an opportunity is a life-changing and eye-opening experience!

Ceiba Foundation

The Ceiba Foundation for Tropical Conservation is a U.S. non-profit organization dedicated to community-based conservation of biodiversity and ecosystem services in the tropics through environmental education, scientific research, local capacity building and establishment of nature reserves. Our projects emphasize empowering individuals and communities to become active participants in the management and preservation of their lands for future generations.

Since 1999 Ceiba has offered rigorous field courses in tropical ecology and conservation. These programs provide students with increased awareness, hands-on experience and scientific knowledge of tropical ecosystems that will inspire and equip them to tackle current and future conservation challenges. We take students out of the classroom and immerse them in some of the richest ecosystems on earth, providing exposure to the complex social and biological factors influencing their conservation. Visits to our reserves and other conservation projects give a realistic picture of the biological, sociological and economic complexities underlying conservation issues. To learn more, visit www.ceiba.org or write:

Ceiba Foundation for Tropical Conservation
1605 Monroe Street, Suite 104
Madison, WI 53711

courses@ceiba.org

Universidad San Francisco Quito

USFQ is a private liberal arts college founded in 1988. The modern campus is situated in Cumbaya, on the outskirts of Quito. USFQ is attended by 4,000 students, and has a thriving international exchange program with students from around the globe. USFQ manages the GAIAS Institute in the Galapagos Islands and the Tiputini Biodiversity Station in the Amazon rainforest. For more information, visit www.usfq.edu.ec.
Tuition, Prerequisites & Credits

Program Duration: Early January - Late May
Application Deadline: First Friday in October

The TCS program is offered in the Spring semester only. Tuition includes most meals, lodging and travel to field sites within Ecuador. Tuition does not cover airfare to Ecuador, pre-course expenses, textbooks, departure tax, travel to and lunch on campus, emergency medical costs, or University of Wisconsin processing fees. Students will want to bring additional funds for personal items, snacks, laundry services and gifts. See Traveling to Ecuador and How to Apply for other important information.

Current program dates and tuition information are available online at www.ceiba.org/TCShome.htm. For additional details on tuition fees, financial aid, and the application process please contact the UW International Academic Programs Office at UW-Madison (106 Red Gym, 608-265-6329, peeradvisor@studyabroad.wisc.edu, www.studyabroad.wisc.edu).

Prerequisites

This program is designed for upper-level undergraduate students with at least two prior college-level biology or ecology courses (grade of B or better) and one semester of Spanish, or equivalent experience. A minimum G.P.A. of 2.75 is required. Graduate or continuing students seeking practical experience in international conservation also are welcome to apply.

Accreditation

Students completing the Tropical Conservation Semester receive 16 credits in tropical ecology, marine biology, applied conservation and Spanish. Details on each course are available in this program packet, or you may request that course syllabi be mailed to you (please contact courses@ceiba.org). The TCS program is fully accredited by the University of Wisconsin for students from any U.S. college or university. If applying from outside the U.S., we are happy to work with you to ensure you obtain full credit for the program through USFQ, which has partnerships with over 70 academic institutions worldwide.

Program Faculty

Joe E. Meisel - Professor

Dr. Meisel holds a Ph.D. in zoology from the University of Wisconsin and an M.S. in wildlife ecology and conservation from the University of Florida, and is a board member and vice-president of Ceiba. He has worked in Central and South America for over 25 years, studying the effects of habitat alteration on native and migratory birds and evaluating the impact on tropical wildlife of land use conversion. He has led numerous summer and semester field courses in Panama, Costa Rica, and Ecuador, has worked in Panama with the Smithsonian Migratory Bird Center, and is the author of Orchids of Tropical America: An Introduction and Guide. His research interests include the foraging behavior of Neotropical army ants and ant-following birds in forest fragments, the dynamics of wildlife in fragmented landscapes, and GIS modeling of species and diversity distributions.

Catherine L. Woodward - Professor

Dr. Woodward holds a Ph.D. in botany from the University of Wisconsin and an M.S. in tropical botany from University of Florida. She also is the current president of Ceiba. She has conducted research and traveled extensively in Ecuador and throughout Latin America for over 20 years. For her master’s degree she studied soil disturbance effects on tropical tree seedling growth in reforested areas along the Moxus oil company road in Yasuni National Park. Her current research interests include the impacts of forest fragmentation on plant population genetics and reproduction. She has worked with the Smithsonian Tropical Research Institute in Panama, conducting field research on birds in forest fragments. She has an extensive knowledge of tropical ecology and has taught many field courses in Costa Rica, Panama and Ecuador.
Spanish Language & Cultural Immersion

The opening course of the semester provides customized instruction for mastery of Spanish grammar and conversational skills. Each student is placed into either intermediate or advanced Spanish, depending on prior coursework and a placement exam. Classes take place on the USFQ campus for 3 hours per day, four days per week, and are given by credentialed USFQ faculty. The course curricula are designed to advance each student to the next level of their university Spanish language sequence. **3 credits** (4 weeks, 48 hours; varying levels).

**Highlights**
- Learn to communicate effectively in Spanish
- Immerse yourself in Ecuadorian culture
- Interact daily with your Ecuadorian host family

Conservation Biology

This course provides a strong foundation in the science and practice of conservation and includes visits to a variety of active conservation projects. The course runs concurrently with the terrestrial and marine ecology courses, such that conservation problems and approaches are considered simultaneously with the aspects of the basic biology, ecology and natural history of these systems. This course exposes the multidisciplinary and complex nature of conservation problems and the interplay among their biological, physical, social and economic drivers. **3 credits** (4 weeks, 48 hours; varying levels).

**Highlights**
- Visit national parks, private reserves, community-based projects and a variety of land-use systems
- Witness human impacts and threats to the environment
- Learn ways to conserve species and ecosystems

Tropical Ecology I: Terrestrial Ecosystems

Students receive in-depth coverage of ecological principles during this course. Key concepts are presented and compared in the context of the ecosystems we visit: high-altitude páramo, montane cloud forests, tropical dry forest, and live for three weeks in pristine rain forest. Lectures and field activities cover the natural history and ecology of major taxonomic groups, their adaptations in each ecosystem, and standard field methods for ecological research; students also learn to identify flora and fauna characteristic of each habitat type. Field work is integral to the course, and includes guided hikes, instructor-led mini-projects and small group research projects. **4 credits** (4 weeks, 110 hours; UW Bot/Zoo 460).

**Highlights**
- Hike in the lush Andean cloud forest
- Camp on the Pacific Coast and explore the Lalo Loor Dry Forest reserve
- Study the amazing wildlife of the Amazon rainforest at the Tiputini Biodiversity Station

Tropical Ecology II: Marine Ecosystems

Study the natural history, ecology and conservation of marine environments while exploring mangroves, sandy and rocky intertidal zones, coral reefs, and undersea environments of mainland Ecuador and the Galapagos islands! Students learn about the unique challenges facing marine organisms, their adaptations, and the profound threats affecting the oceans today during a three week stay in the Galapagos Islands that incorporates a one-week natural history cruise plus a week at USFQ’s Galapagos Academic Institute for the Arts and Sciences (GAIAS) on San Cristóbal. Homestays with families on San Cristóbal Island offer a unique look at life in the Galapagos. **4 credits** (4 weeks, 110 hours; UW Zob 400).
COURSE DESCRIPTIONS

Highlights

• Tour the wondrous Galapagos Islands by boat for 8 days
• Stay with a Galapagan host family for one week
• Study the underwater world while snorkeling

Conservation Internships

Students put the training they have received in the ecology, environment, culture and language of Ecuador to work on a local conservation or applied research project in conservation internships during the last month of the semester. Students form relationships with members of Ecuadorian organizations, providing for a mutually-beneficial cultural exchange, the potential to acquire useful job skills, and a chance to become familiar with careers in conservation and associated organizations. Furthermore, student interns can contribute tangibly as “ambassadors of goodwill” to the efforts of Ecuadorian NGOs and other institutions.

Early in the semester, each student makes contact with one or more organizations of their choice to set up their internship placement. Ceiba maintains a list of organizations from which students may select, or students may contact a different organization independently. Final placements depend in part on the student’s language skills and interests, and the current needs and priorities of host organizations. During the first week of the course, students discuss the details of their project with their host organization, including expectations, responsibilities and the work schedule. Students and the individuals who will supervise them each sign an internship agreement form outlining the terms agreed upon.

Students are not expected to develop their own project, but to assist where needed within the organization, as requested by their supervisor. In certain cases, a student may assist in designing a project or develop an independent project that in some way contributes to the organization’s broader goals. The only requirement we have is that all projects must include an outdoor component.

Students must contribute at least 80 hours of volunteer work over the month, and may work a regular schedule (20 hours per week), or irregularly, depending on the project’s needs as agreed upon by both the supervisor and the student. If a single organization with which a student is interested in working cannot provide enough work to satisfy this load, the student should find a second institution to work with to make up the remaining time. Internship agreement forms must be obtained from all organizations.

Students produce a written report summarizing their internship activities, including description of broader project goals, how their participation contributed, and suggested actions to advance the program. Examples of written materials produced during the internship, such as training manuals or environmental education pamphlets are included in the report. Each student will make a short oral presentation, in standard format suitable for professional meetings, to the entire class, which in turn will provide feedback on presentation quality, clarity and completeness. Finally, all supervisors will submit to course instructors an evaluation of each student’s performance while working with their host organization.

2 credits (5 weeks, 80 hours; UW Zoo 677).

Internship Organizations

Below is a sampling of some internship organizations with which a student may work.

- Amazoonico Wildlife Rehabilitation Center
- Aves y Conservación / BirdLife International
- Ceiba Foundation for Tropical Conservation
- EcoMingga
- El Pahuma Orchid Reserve
- Equilibrio Azul Marine Conservation
- Fundación Jocotoco
- Lalo Loor Dry Forest Reserve
- La Hespería Cloud Forest
- Mashpi Sustainable Chocolate
- Mindo community ecotourism
- National Herbarium of Ecuador
- Quito Botanical Garden
- Rio Jama Mangroves
- Rio Muchacho Organic Farm
- Sumak Alpina Primate Rescue Center
- Tabuga Community Library
- Tabuga & Camarones Women’s Microenterprise
Evaluation

Written reports: 40%
Oral presentation: 30%
Intern evaluations: 30%

The final evaluation of student performance in the course is based upon the written report, the oral presentation and the supervisor’s evaluation.

Where We Go

The course begins in Quito, Ecuador’s capital city, which occupies a broad inter-Andean valley at an altitude of 9,250 feet. The city has a modern center and an historic Spanish colonial district and is surrounded by volcanoes, including the active Mt. Pichincha which last erupted in 2002. Classes are held just outside Quito in the town of Cumbayá, where the lower elevation makes for a pleasant, warm climate.

Upon arrival in Ecuador, you settle in with your Ecuadorian host families and begin the first month of classes in Spanish and Conservation Biology on the Universidad San Francisco de Quito campus in Cumbayá. USFQ is Ecuador’s most prestigious private university, and operates both the Tiputini Biodiversity and GAIAS research stations. It hosts study abroad programs from around the world, creating an exciting international atmosphere on its campus. We’ve limited classroom study mostly to Monday through Thursday, a schedule allowing for extended class field trips each weekend that introduce students to tropical ecosystems and some of Ecuador’s most stunning scenery.

One trip will be to Cayambe-Coca National Park dominated by one of Ecuador’s tallest volcanoes, Antisana (5,705 m; 18,717 ft). The towering crater attracts climbers from around the world, while the wind-swept park protects a vast area (400,000 ha) of high-elevation alpine tundra, or “páramo.” We break out our sweaters, hats, gloves and wool socks to spend a day hiking through and studying the unique adaptations of the rich biota that thrives in this harsh but breathtaking habitat.

Another weekend trip takes us to the El Pahuma Orchid Reserve, a project of the Ceiba Foundation, providing technical expertise and training to the landowner and his family so they may continue to manage their land in a sustainable and non-destructive manner. High in the epiphyte-laden Andean cloud forests (1,900 – 2,400 m), El Pahuma showcases a breathtaking diversity of native orchid species and is a model project in conservation and ecotourism. Students have the opportunity to learn first-hand about reserve management and protected areas implementation. At El Pahuma a rugged three hour uphill hike takes us to the remote, and chilly and misty “Bear's Den” cabin where we live and camp for several days. Here we study this cloud-fed montane ecosystem, and have a chance to see rare denizens of this forest such as the endangered Spectacled Bear and endemic Plate-billed Mountain Toucan. We also walk the ancient Yumbo trail, once used as a trade route by pre-Colombian peoples to transport goods from Quito to the coast and back.

From there, we begin our exploration of deciduous tropical forests along Ecuador’s beautiful and sparsely settled Pacific coast. The first stop in our journey is the Lalo Loor Dry Forest, Ceiba’s second private reserve project, owned by a dairy farmer, that protects seasonally dry tropical forest. With only 2% of Ecuador’s dry forest remaining, reserves like this represent important habitat for this ecosystem’s uniquely adapted flora and fauna. Many trees here are deciduous, losing their leaves in the dry season. The forest is intermingled with cacti and reptiles are abundant, as are birds and the commonly observed Mantled Howler Monkeys. Our coastal adventure will include camping on the beach and an exploration by boat of some of Ecuador’s last remaining mangroves and the shrimp farms that have replaced them.

After a short break back in Quito, the excitement continues as we journey to Ecuador’s Amazon rainforest for a two week stay at the Tiputini Biodiversity Station (TBS). We travel all day by plane, open-air bus and motorized canoe to immerse ourselves in the primeval rainforest of TBS, located adjacent to the 1.7 million acre Yasuní National Park and surrounded for miles on all sides by the most biodiverse forest on Earth. Students have the rare opportunity to see many rainforest mammals, including 11 species...
of primates, jaguar, ocelot, puma, capybara, agouti, tapir, and tayra, fascinating river dwellers such as the pink river dolphin and caiman, and over 500 species of birds, including giant harpy eagles, toucans and macaws. To maximize our encounters with wildlife we explore blackwater rivers and freshwater lagoons. We climb TBS’s canopy access towers and exhilarating walkway system for a unique birds-eye view of the forest canopy, and the throngs of birds, monkeys and other wildlife that carry on their lives high above the forest floor.

Lectures in the Amazon provide essential background on tropical rainforest structure and dynamics, tropical flora and fauna and ecological interactions, with field activities geared toward learning techniques for ecological research. We then focus on many of the problems confronting conservation of tropical rainforests, including some particularly applicable to this region: oil development, colonization, and tourism. We may encounter the Huaorani people, original inhabitants of this lowland rainforest, and witness the forces that are endangering their culture and the forest they depend on. There is ample opportunity to hear from the staff and biologists working at TBS, a scientific hotspot for researchers from around the world. You'll then put your training into action by designing and executing your own field project in this incomparable rainforest.

After mid-semester break, we kick off the Marine Biology course and set off on the much-anticipated expedition to the world famous Galapagos Islands. Legendary for its role in inspiring Darwin's theory of evolution, this archipelago of 13 major islands and 115 smaller ones is a virtual showcase of diversity and speciation. One of the world’s largest marine reserves surrounds the park, although conservation, tourism and fishing often come into conflict. You will enjoy face-to-face encounters with Galapagos wildlife during our 8-day cruise of the islands, and home in on a research question that will guide your activities at the Galapagos Academic Institute for Arts and Sciences (GAIAS) for the following two weeks. Located on San Cristóbal Island, the facility’s laboratories, boats, library, and computers provide an excellent base from which to carry out your research. Moreover, you have the once-in-a-lifetime experience of living with a native “Galapagueña” host family.

Back in Quito, there won't be much time for relaxation as you present the results of your research in a student symposium and make last-minute preparations for your internship. This final month of the program is your chance to demonstrate all you’ve learned and to really practice your Spanish! Depending on the organization or project you choose, you may remain in Quito for your internship to work, for example, on planning a conservation program or developing educational materials, or you may travel to a remote site to assist in reforestation, conduct a marine survey, or participate in community development work. Whatever the case, it is up to you to make the most of your internship experience and we’re certain that both you and the organization with whom you work will benefit. Furthermore, the internship can help you acquire new skills and contacts, and give you practical exposure to careers in international conservation.

The semester wraps up with a few days in Quito during which you share your internship experiences and bid farewell to your classmates and host family before returning home, or moving on to your next tropical adventure! For more information and photos of the sites we explore, please visit www.ceiba.org/TCSsites.htm.
Dates to Remember

Application Deadline: 1st Friday in October
Enrollment Deadline: See acceptance letter

Program Schedule

The program begins in mid January and ends in mid May. Exact dates for each year are available on Ceiba’s website and in your enrollment packet. Expect the program schedule to be very rigorous: we strive to take full advantage of your time in Ecuador, and the exciting field sites we visit. The chronogram below indicates the approximate sequence of activities each week.

Students settle in with their host families and receive orientation in Quito upon arrival, and Spanish classes begin the first full week on campus. Classes normally take place Monday through Thursday for 5 - 6 hours per day. Weekend field trips from Friday through Sunday take place during weeks 2-4. Trips to field sites (indicated by “Travel” in the chart below) entail extended periods living and working together as a group, sometimes in rugged conditions.

The very nature of field courses and travel in Latin America necessitates a certain degree of flexibility, and the final course itinerary may differ from the one below. Lecture topics may change opportunistically in response to an interesting observation in the field or the presence of a visiting scientist. Activities may change in response to weather, unexpected delays or other unpredictable circumstances.

TCS Schedule-at-a-Glance

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INFORMATION FOR APPLICANTS

Traveling to Ecuador

Air Transportation to Ecuador
Students must make their own international travel arrangements for arriving in Ecuador on or before the course start date. Several major airlines serve the international airport in Quito, Ecuador, including American Airlines, COPA (through Miami), Continental (through Houston), Delta (through Atlanta), and LACSA (through Costa Rica). Student airfares occasionally are available. We recommend you make your travel arrangements through the student travel agency STA Travel (1-800-781-4040, www.sta-travel.com).

Arrival in Ecuador
After buying your ticket, please submit your travel itinerary on the UW study abroad website. If you arrive on the suggested arrival date, your host family and/or a program staff member will meet you at the airport and take you to your home-away-from-home.

Air Transportation in Ecuador
Air travel between Quito and Coca for our trip to the Amazon rainforest, and between Quito and Baltra for our tour of the Galapagos is included in the program tuition. Please be aware that passengers are allowed to check a maximum of only 25 pounds (11 kg) of luggage, plus a small carry-on bag. Please plan accordingly when you pack for your trip! One way to minimize the impact of this limitation is to pack heavier items (books, cameras, binoculars) in your carry-on bag and check only your clothes.

Passport
You must have a passport valid for 6 months beyond your stay in Ecuador. If you do not have a passport, or need to renew yours, contact your local U.S. passport office or post office for an application. Apply early, as it may require six weeks or more to process. To apply for a passport you need to submit:

1) Two passport-sized photos
2) Certified birth certificate
3) Photo I.D.

Visa
All participants must obtain a student visa (12-VIII visa) for their stay in Ecuador. This is a multi-step process requiring documents you must bring the USA, and a substantial processing fee. Upon arrival in Ecuador you will complete the visa application process through the Ministerio del Interior. Supporting paperwork and instructions will be supplied to you when you enroll in the program.

Customs
When entering Ecuador you must pass through customs ("migración"). It is likely that your luggage will be searched. Possession of illegal drugs or other contraband will result in your arrest and expulsion from the course without refund. Drug penalties in Ecuador for possession of even small amounts of illegal drugs are much stricter than in the U.S., and the U.S. embassy will not be able to provide assistance if you are jailed in Ecuador! Upon your return, you will pass through U.S. customs that maintains specific restrictions on what can and cannot be brought into the country. Please visit the U.S. customs service website for more information.

Departure Tax
International airlines may charge an additional airport tax upon your departure from Ecuador. This tax may be included in the price of the ticket, or you may be asked to pay the tax in cash at the airport counter. The fee varies from airline to airline, so please check with your airline or travel agent to see if you will be charged this fee on your day of departure.

Health and Safety
The health and safety of participants in our program is of primary concern, and we take every precaution to ensure that the potential for accidents is minimized. However, you will be living and travelling in an environment that may feel very unfamiliar and it is up to each individual to exercise caution, good judgment and common sense. The following information is provided to enhance your safety and enjoyment during your semester abroad.

As a developing nation Ecuador does not have the same high standard of sanitation we enjoy in the U.S. and Europe, and there are certain diseases and ailments that are more common in developing tropical countries against which one must take proper precautions. If basic precautions are followed, however, it is very unlikely that you will become seriously ill.

Altitude
The city of Quito is at 9,350 feet (2850 m) of elevation, and some field sites we visit are as high as 14,500 feet. Altitude sickness, your body’s response to lower oxygen concentration at high altitudes, can affect anyone and is characterized by headache, fatigue, dizziness, trouble sleeping and occasionally stomach upset. If you know you are prone to altitude sickness, consult your physician.
Prescription drugs now are available that mitigate the negative effects of altitude when taken before traveling to high elevation. In any case, you can minimize the symptoms of altitude sickness by drinking plenty of water before and after your arrival, avoiding alcohol and caffeine, taking aspirin and iron supplements, and avoiding overexertion.

Vaccinations
The best way to prevent the most serious illnesses is by getting vaccinated prior to traveling to Ecuador. It is mandatory that you obtain a yellow fever vaccine prior to arriving in Ecuador (you will be required to show proof of this vaccine in order to travel to TBS). Yellow fever vaccinations last for 10 years. You should check that your vaccinations against tetanus, typhoid fever and hepatitis A and B are up to date.

It is recommended that you take anti-malaria pills for your visit to the Amazonian region of Ecuador. Tablets are taken once a week and must be started 2 weeks prior to your departure and continued for 4 weeks after your return. Anti-malaria pills (Lariam-mefloquine only) are readily available at pharmacies in Ecuador, and are much less expensive than in the U.S., so you may want to make your purchase once you arrive. Malaria, dengue and leishmaniasis -- all insect-borne illnesses -- have been known to occur in Amazonian Ecuador. The simplest way to avoid contracting these illnesses is to avoid contact with the insects that transmit them: wear long pants and sleeves, apply insect repellent and sleep under a good mosquito net.

For any and all medical advice, please consult your doctor or public health service for the most recent information regarding vaccinations for travel to Ecuador.

Physical Examination
All applicants must submit a letter signed by their physician along with their application. This letter must certify that you have had a physical examination within the last 30 days and have no health problems that would prevent you from participating in a rigorous field course in South America. For safety reasons, we also request that you notify us of any medical conditions that may require immediate attention in the field (allergy to bee stings, asthma, diabetes, heart condition, etc.), and to provide a list of any essential prescriptions. This will enable all course participants and personnel to respond appropriately should you require emergency medical attention. Please come prepared with an adequate supply of any prescription medication and keep it in your carry-on bag at all times to avoid the risk of it being lost if for any reason the airline misplaces your luggage.

Medical Insurance
All participants are therefore required to have active medical insurance that covers them during their stay in Ecuador. Check to see if your current insurance provider or university-offered program covers you while you are overseas, and if not, there are providers offering low-cost insurance for overseas travel, including the student travel agency, STA Travel (1-800-781-4040). If accepted to a Ceiba field course you must submit a certificate of insurance form as soon as you obtain and/or verify your coverage. Please bring your insurance card with you to Ecuador. Participants are responsible for paying their own medical and/or evacuation costs should the need arise. Health care is inexpensive in Ecuador and we recommend you carry $50-100 in addition to your spending money, in case you require services of a local clinic or pharmacy for minor illness or medication.

Motion Sickness
During the cruise of the Galapagos, we sleep and eat aboard ship for a week. Because of the lengthy travel between islands, you will spend a considerable amount of time on the ship. If you know, or even suspect, that you are prone to seasickness, please bring a supply of anti-motion-sickness tablets (or other remedy). This is extremely important: you do not want your Galapagos experience spoiled by preventable motion sickness, so be sure to come prepared.

Personal Safety
Although Ecuador is part of the developing world, you will find Quito to be surprisingly modern. While Quito has a lower crime rate than most comparable cities in the US, like any large urban area (nearly 2 million people) there is some street crime. Being alert and exercising common sense is essential. Travel after dark only in groups, avoid poorly-lit or isolated areas, don’t display large amounts of cash or jewelry, take care with cameras and backpacks, and do not accept invitations of any kind from strangers. If you feel endangered, enter the nearest business and ask them to call a taxi, or the police. Familiarize yourself with the city, ask course staff or your host family about the safety of unknown neighborhoods, and let a friend know where you are going and when you expect to be back. Pick pocketing is the most common form of crime, so when traveling on buses and other public transportation, do not let your possessions out of your sight, or better yet, keep them on your person.

These are all precautions that any seasoned traveler, or resident of any large US cities, will already have adopted. This advice is not intended to scare you; Quito is a wonderful city full of warm, generous and honest people; the Ecuadorian countryside also
is a terrific place to travel, and you will find the locals you meet everywhere are friendly and polite. However, as in your own city or town, knowing the risks and how to manage them is the first step to staying safe.

What to Bring

Required Texts
This is a combined list of all required texts for all classes, except Spanish. These texts are not available for purchase in Ecuador so you must bring them with you. We do not recommend shipping items to Ecuador as they may arrive late or not at all.


Suggested Reading
Below is a list of recommended reading, arranged by category. We suggest that students read at least one book that interests them from each of the first two categories before the course begins. Readings have been selected to enhance students’ understanding of material encountered during the course and to deepen students’ knowledge in one or two subject areas prior to traveling to the tropics. Look for them at your university library. The field guides listed below are useful for identifying the plants and animals we will encounter during the course. There will be at least one copy of each field guide in the program library.

Terrestrial Ecology & Conservation

Academic Press.

Marine Ecology & Conservation

Galapagos

Field Guides

Ecuador Travel and History

**Required Gear & Clothing**

Daytime temperatures in Quito and Cumbaya range from cool 60s at night to the low 80s by day. High-elevation sites will greet us with chillier climates, reaching the 50s by night at El Pahuma, and even the 40s during day trips to the páramo. Lowland sites are quite warm (80s or, rarely, 90s), particularly the Gálapagos.

- 2 flashlights (we recommend one head lamp and one handheld flashlight; at least one should be strong for night walks)
- 2 large trash bags for keeping luggage dry
- Binoculars (good ones!)*
- Calculator
- Compass (preferably with mirror)
- Daypack or fanny pack (big enough for carrying water, field notebook, camera, rain gear, lunch)
- Decent clothes to wear in Quito (Ecuadorians tend to dress better than Americans; although you do not need fancy attire, it is very uncommon to wear shorts in the city, and may not be allowed into some city establishments without slacks)
- Hat or cap
- Non-aerosol insect repellent (25% DEET is sufficient)
- Lecture notebooks and pens/pencils
- Lightweight, long-sleeved shirts for field work and at night
- Lightweight, long pants for field work (cotton is best, quick-dry nylon works well but is warmer)
- Mask, fins and snorkel
- Raincoat or poncho (you WILL get rained on!)
- Rubber boots (mid-calf to knee high – may purchase sizes less than men’s 11 cheaply in Ecuador)
- Shoes suitable for trail hiking (but heavy boots not necessary)
- Signal whistle
- Sleeping bag** (nighttime temperatures will range from 45 F at high elevation to the 70 F on the coast)
- Small, personal first-aid kit (Band-Aids, antacid/anti-diarrhea, antibiotic ointment, insect bite relief)
- Socks (many!) long enough to tuck your field pants into
- Spare batteries (these can also be purchased in Quito, but are more expensive)
- Swimwear (men should bring one suit with close-fitting liner)
- Sunscreen (SPF 30 or stronger)
- Towel
- USB drive for saving project files (data, assignments, etc.)
- Warm clothing for Quito and high elevation sites (temperatures may dip below freezing at high elevation!)
- Water bottle (at least 1 liter)
- Water-resistant field notebooks (“Rite in the Rain” or similar)
- Water-resistant wristwatch (preferably with stopwatch & alarm)

* Binoculars: A good pair of “bins” is essential. You will use them every day, and will be very disappointed if yours are inadequate. Binoculars are rated by their magnification power and the size of the lens: 8 x 42 is 8-power with 42 millimeter lenses. Smaller lenses are cheaper, but drastically reduce gathered light, making objects dim and colorless. We recommend 8 to 10 power with a minimum 30 mm lens. A good pair can be found for $150 - $300.

** Sleeping gear: We camp for two nights in cloud forest (on cots) and a few nights on the coast. Ceiba provides foam camping pads for everyone. You may wish to borrow a blanket instead of packing a bulky sleeping bag, or rent a bag in Quito (~$10/day).

**Recommended Gear & Clothing**

- Biodegradable multipurpose soap
- Camera and plenty of film or memory cards
- Contact lens solution (available in Ecuador at 2X cost)
- 10X hand lens
- Money belt or concealable pouch
- Motion sickness medication (for bus and plane travel)
- Pocket knife
- Spare prescription glasses or contacts, if you wear them
- Sunglasses
- Rubber sandals and/or flip-flops
- Wet suit, neoprene shirt or rashie for cool-water snorkeling
- Toiletries, especially specialty items
- Ziplock bags (for protecting binoculars, cameras, snacks, etc.)

Questions?
Visit www.ceiba.org/TCShome.htm
or write to courses@ceiba.org
**Deadline:** 1st Friday in October

**Application Instructions**

U.S. and Canadian students seeking academic credit for this program apply directly through the online application system of the University of Wisconsin’s International Academic Programs (IAP) office. All application and recommendation forms can be found online at:

www.studyabroad.wisc.edu/Applications

To apply for the course, you must submit the following items:

1) Wisconsin General Program Application Form
2) TCS Program Supplemental Application Form
3) University transcripts
4) Student Recommendation Form
5) Letter of health from your physician

Please contact the IAP office with any application questions you may have (608-265-6329, peeradvisor@studyabroad.wisc.edu).

If you are enrolled in a university outside the U.S. or Canada, you may apply for the TCS program directly to Ceiba. Please visit www.ceiba.org/TCSapp.htm for instructions.

**Enrollment and Tuition Payment**

To confirm your enrollment you must complete an online enrollment form by the deadline indicated in your acceptance letter. Enrollment materials are at www.ceiba.org/TCSenroll.htm. The University of Wisconsin will bill you separately for tuition and fees.

**Runners-Up & Early Application**

Due to space limitations, we may not be able to accept every qualified applicant to the program. If your notification letter indicates you are a runner-up, you will be accepted in the event that another student declines to enroll.

We understand that some students would like to settle their study abroad arrangements before the formal application deadline. If you would like your application reviewed early, you may submit a provisional application form directly to Ceiba at any time; in the case of exceptionally strong applications we will extend to you an early acceptance. Please note that, if accepted early, you still must complete the University of Wisconsin procedure to be entered formally into their system. Please send an email to courses@ceiba.org for an early application form.

**Refund & Cancellation Policy**

Program tuition and fees are not refundable after the program enrollment deadline; however, in the case of a documented emergency including illness, incapacitation or death of the student or immediate family before the start date of the program, tuition will be refunded less a $1000 cancellation fee. After the program start date, no refund will be given. If the course is canceled by Ceiba for any reason, tuition will be refunded in full.

**Preparing for Your Trip**

Upon enrollment in the program, you will receive orientation information on preparing for departure and obtaining your visa, as well as what to expect upon arrival and while living and studying in Ecuador. In the meantime, if you have any questions please consult the TCS website, and feel free to contact us at any time, we are more than happy to help as you get ready to go.

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