

Environmental Science Field Course (EES C16 & EES DO7) COSTA RICA



May 3rd to May 14th, 2020

COURSE DESCRIPTION:

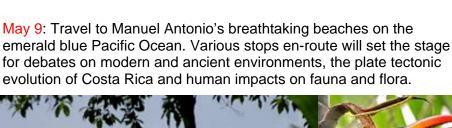
Costa Rica is one of the most geologically active areas in the world. Active subduction, explosive volcanism, large magnitude earthquakes, landslides and other geological hazards. Forming part of the land bridge between North and South America, Costa Rica is a country of vast bio-geographical importance supporting innumerable coastal ecosystems, wetlands, mangroves, coral reefs and lush tropical forests which sustain several species of exotic flora (e.g. > 1300 species of orchids) and fauna (monkeys and other larger mammals such as the jaguar).

The May, 2020 Costa Rica field course will introduce various field techniques used in the Environmental Sciences and include: scientific observation and recording, rock—and mineral identification, flora and fauna identification, techniques for loggi ng and mapping sediments, use of GPS and compass-clinometers, field note taking & field samp ling techniques. Also: the pleasures of soaking in hot springs!

Tentative Itinerary:

May 3: Arrive in San Jose, Capital City of Costa Rica from where we will explore and "get up close and personal" with some of Costa Rica's and the world's most active volcanoes.







May 10: Manuel Antonio – Coastal Aquifers & Mapping on WHITE SAND BEACHES!

May 11: Venture deep into Manuel Antonio's lush Lowland Tropical Wet Forest. Only spot in Costa Rica and the world where you will see the rare mono tití (squirrel monkey). Only 1500 left in the world! Explore the estuary & mangrove forests at Islas Damas known for its COLOURFUL birds.

May 12 & 13: Dominical – Mapping & Stratigraphic Logs at the best SURFING spot in Costa Rica!

Final Exam in pm.



Costa Rica

Grading: EES C16 EES DO7 Oral Presentation and Handout 25% 30% **Group Project Work** 20% 20% Personal Project Work 15% 10% Field Note Book and Participation 10% 10% 30% Final Exam 30%

Costs: \$750 (estimated) and covers park fees, all accommodation and transport in Costa Rica. Airfare and course fee paid separately. Any funds remaining will be returned. \$250 deposit due now!! 15 students max!



Experience field work at its best!

Pre-requisites: EESC16 – one EESB level course & Permission of Instructor; EESD07 - EESC16 & Permission of Instructor

Additional Information & Contact: Professor Ken Howard Room ESC-348 ken.howard@utoronto.ca