Conservation Biology and Practice in Brazil’s Atlantic Forest

Global Seminar
May 2018

EBIO / ENVS 4340 (4 Credits)

Dr. Tim Kittel
Program Faculty Director
INSTAAR, CU

Black Lion Tamarin

Photo – Gabriela Rezende

All photos (c) T. Kittel unless otherwise indicated
Program Highlights —

- Learn about Brazil’s other tropical forest—the Atlantic Forest

Vertebrate Species Richness
- dark blue < 5
- dark red > 600 species
Program Highlights —

• Obtain hands-on experience in principles of conservation biology

The Atlantic Forest —

❖ High fauna & flora endemism

30% Plants, 60% Mammals, 90% Amphibians

Greenheaded Tanager

Titi Monkey

Atlantic Forest Treefrog

Bromelia

3-Toed Sloth
Program Highlights —
A threatened center of high faunal and floral biodiversity

The Atlantic Forest —
- 5-7% remaining
  = ‘Conservation crisis’ setting
Program Highlights —
... Obtain hands-on experience with conservation practice in a human setting
Program Highlights —
... Obtain hands-on experience with conservation practice in a human setting

Host Institution —
- IPÊ: Institute of Ecological Research
- Brazilian environmental NGO
- Integrated local community conservation programs
- Couple biological understanding with socioeconomic context
IPÊ: Institute of Ecological Research

www.ipe.org.br/english/
Pontal do Paranapanema, western São Paulo State

“The Great Pontal Reserve”

Morro do Diablo State Park
Species biology – Discover what makes species vulnerable

Field Research with the Black Lion Tamarin Project

- Telemetry
- Collecting data on ecology & demographics

Spend the day in the field monitoring wild populations
Landscape Conservation

- Landscape Connectivity – Habitat Restoration

- Learn how to evaluate their utility to wildlife & ecosystem services

- Landowner Legal Compliance

- “Wildlife-designed” Landscapes

- Spend the day in a Corridor –

- Learn reforestation techniques
“Coffee with Forest”
Agroforestry

Creating Forest Stepping Stones

Programs with now-settled ‘Landless’ families

Spend the day with a local Settler family, learning their realities & their dreams
Community Tree Nurseries

Spend the day in the nursery, learning about seedling production

- Integrated local community conservation programs
Environmental Education

Activities with children from local schools

• Workshop on seedling production for youth
• Training courses for teachers
Program Highlights —
7 days in Brazil’s Iguaçu National Park
• Half million acres of Atlantic Rain Forest
• UNESCO World Heritage Site
• Proposed Trinational Biodiversity Corridor
Iguaçu National Parks – Brazil & Argentina
Program Facilities —

Pontal do Paranapanema – Modern Residence

Iguaçu National Park – Research Station
Instructional Staff —

Tim Kittel, PhD
- INSTAAR Research Ecologist —
  - Global Change Biology
  - Climate & Conservation
- Field Courses —
  - MRS Winter & Vegetation Ecology
  - Brazil Conservation Biology >15 yrs

Derek Sweeney, MSc
- EBIO GenBio Instructor
- GS Brazil since 2011

Gabriela Rezende, MSc
- IPÊ Conservation Biologist —
  - Primates
  - Bilingual
- GS Brazil Co-instructor since 2015
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**Academics —**
2½ weeks: 14–31 May 2018
4 credits
EBIO/ENVS 4340/5340

**Meets Major Requirements —**
- EBIO: 4000 & Lab/Field course
- ENVS: Application / Field course
  - Sustainable Development specialization
  - Natural Resources specialization
  - Int’l Environment & Development
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Course components —
• Field & class exercises
• Research essays
• Individual project – Conservation plan
• No exams!

Mountain Stream Swim

Forest Soil Analysis

Tri-colored Heron
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Eligibility Requirements —
• Recommended class standing: Sophomore, by end Spring semester
• Minimum GPA 2.5
• Prerequisite: 2000-level Natural Sciences course or in other field related to conservation
• No language requirement

Graduating Senior Options —
• Course on transcript post-graduation
• Summer graduation – to use financial aid
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More Info & On-line Application —
http://abroad.colorado.edu/?go=BrazilGS
Deadline – November 26th
Rolling Acceptance – Apply early

Financial Aid Advising
Pre-departure Orientation

Questions? —
Scott Funk, Program Manager
- Education Abroad, Center for Community
- (303) 492-3403
- scott.funk@colorado.edu

Dr. Tim Kittel, Faculty Director
- kittel@colorado.edu

http://www.youtube.com/watch?v=YE87fAICz4Y
Search: “cu boulder brazil conservation”
Global Seminar Application Process

**Sign on today’s sign-up sheet:**
check the “Start App” box to get your application open

[Image: Passport]

**Log on to:**
http://studyabroad.colorado.edu
using your CU Identity Key and password after you receive e-mail notification that your online application is open

**Work on your online application from home**
The application includes:
complete Study Abroad 101 (if you have not done so yet), professor or T.A. recommendation, personal statement, online forms, application fee

Speak with a study abroad advisor and/or with the program director at any point in the process!
When your application is complete

Application Review & Interview

Due within one week of acceptance: participant contract & non refundable deposit

March/April: post acceptance paperwork, pre departure meetings, readings & preparation

GO!
Questions after today?

Connect with the Study Abroad office:
Center for Community (C4C) S355
Drop-in advising hours: 9-4:30 Mon-Fri
No appointment necessary
abroad@colorado.edu
1.303.492.7741

Contact the program director:
Tim Kittel
kittel@colorado.edu

Contact the program manager:
Scott Funk
scott.funk@colorado.edu

Be Boulder.
Thank you for coming!

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abroad@colorado.edu
C4C S355

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