Conservation Biology and Practice in Brazil’s Atlantic Forest

Global Seminar
May 2013

Dr. Tim Kittel
Faculty Director
INSTAAR, CU

3-Toed Sloth

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

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

The Atlantic Forest

Pacific Andean Forest

Guyanan Highland Forest

Amazon Lowland Forest
Program Highlights —

- ... a threatened center of high faunal and floral biodiversity
Program Highlights —

• Obtain hands-on experience in principles of conservation biology ...

The Atlantic Forest —

❖ High fauna & flora endemism
❖ 5-7% remaining

(c) Eisenberg & Redford 1999
Program Highlights —

• Obtain hands-on experience in principles of conservation biology ...

The Atlantic Forest —

❖ 5-7% remaining

= ‘Conservation crisis’ setting
**Host Institution**

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

**Program Highlights**

- ... and conservation practice in human settings

**Conservation Biology**

- Forest Bird Conservation — Trogon
- Fragment Buffers & Corridors

**Landscape Integrity**
Program Highlights —

- Integrated local community conservation programs

Payment for Ecosystem Services
Watershed Reforestation
Program Highlights —

- Integrated local community conservation programs

Community Development

Small-scale Agroforestry

Women’s Crafts Cooperative

Juçara Palm Fruits

Non-Timber Forest Products
Program Highlights —

- Integrated local community conservation programs

Community Knowledge
Medicinal Plants
Program Highlights —

- 4 days in the Serra do Mar Biodiversity Corridor
  - Conservation corridor 1000 km along South Atlantic coast

Palm prop roots

Lower Montane Atlantic Forest
Program Highlights —

• 4 days in the Serra do Mar Biodiversity Corridor
  ❖ Conservation corridor 1000 km along South Atlantic coast
Program Highlights —

- Embedded Subsistence Communities

Cambury Quilombo
IPÊ’s Facilities —

Latin American Teaching Campus –
• US students since 2000

Lecture hall –
• WiFi, Internet
IPÊ’s Facilities —

Dormitory –
• 4-person suites
• Volleyball court

Dining Hall –
• Special dietary needs –
  • e.g. Vegetarian, Gluten-free

Lounge –
• Cable TV
• Piano
Rural Neighborhood —

- Hikes
  - Bird, mammal watching
- Reservoir access
- Yoga retreat center
  - Organic garden

Marmoset
Cultural Activities —
• Capoeira Academy
**Instructional Staff —**

**Tim Kittel, PhD**
- *INSTAAR Research Ecologist* —
  - Global Change Biology
  - Climate & Conservation
- *Field Courses* —
  - Winter Ecology – since 2005
  - Brazil Conservation Biology – since 2002

**Fernando Lima, MSc**
- *IPÊ Conservation Biologist*  
  - Jaguar Conservation
  - Bilingual
  - *Brazil Conservation Biology Field Courses* —
    - US courses since 2008
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**Academics —**
2½ weeks: 13-30 May 2013
3 credits
EBIO 4100/5100

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

• Minimum class standing: 2nd Semester Sophomore
• Minimum GPA 2.5
• Prerequisite: EBIO 2040/equivalent
  – Principles of Ecology, Physical Geography, Environmental Sciences
• No language requirement

Graduating Senior Options —

• Course on transcript post-graduation
• Summer graduation – to use financial aid
More Info & On-line Application—

http://studyabroad.colorado.edu/?go=BrazilGS

Deadline – 18 Feb 2013

Financial Aid Advising
Pre-departure Orientation

Questions? —

• Liza Hensleigh, Program Manager
  – Study Abroad, Center for Community
  – (303) 492-7741
  – Liza.Hensleigh@colorado.edu

• Tim Kittel, Faculty Director
  – kittel@colorado.edu