



FEDERAL UNIVERSITY OF SANTA CATARINA
CENTER FOR BIOLOGICAL SCIENCES
DEPARTMENT OF ECOLOGY AND ZOOLOGY
POSTGRADUATE PROGRAM IN ECOLOGY

Code: ECO 410054

Subject name: Human dimensions of biodiversity

Number of Credits : 3 Total Class Hours: 45

**Teachers: Natalia Hanazaki – 1 credit
Nivaldo Peroni – 1 credit
Carolina Levis - 1 credit**

Semester/Year: 2024 - 1

Period: from March 12th to June 18th, 2024

Opening hours: 9am-12pm (Tuesday)

Number of vacancies: 15

Location of classes: (to be defined)

Student opening hours and location:

Teachers are available for extra-class assistance. Appointments with teachers must be scheduled via email, or preferably on Thursdays from 8 am to 12 pm. Please use the Moodle platform to contact teachers (www.moodle.ufsc.br).

Prerequisites:

No prerequisites

Summary:

Interdisciplinary approaches in the study of the human dimensions of biodiversity. Human Ecology and Historical Ecology, Ethnoecology and Ethnobiology . Traditional and local ecological knowledge. Traditional people and biodiversity conservation. Socio-ecological systems and Common Property Theory. Community management and co-management inside and outside protected areas. Adaptive management and adaptive co-management associated with local development. Integrated methodological approaches. Access to local knowledge associated with biodiversity and benefit sharing.

Teaching methodology:

- a) In-person classes: expository and dialogue classes, discussion of articles, mock jury, presentation of seminars. If possible, we will carry out a field visit activity.
- b) Communication system: Virtual teaching and learning environment (Moodle), with provision of additional support materials and use of discussion forums. With the agreement of the class, a maximum of two classes scheduled in the schedule may take place remotely via zoom platform or web conference.
- c) Predicted period of acclimatization of the technological resources to be used by students: if any extra-class activity occurs in a complementary online manner, a period

of testing and acclimatization of the technological resources to be used will be available one week in advance of the activity.

d) Identification of activity frequency control: attendance and participation in face-to-face classes, records of access to activities, and content posted on Moodle.

Classes will be in Brazilian Portuguese.

Assessment:

The evaluation of the subject will be verified based on the grades obtained in:

- a) Submissions of article summaries (50%)
- b) Seminars (50%)

Program content:

Interdisciplinary approaches in the study of the human dimensions of biodiversity. Human Ecology and Historical Ecology, Ethnoecology and Ethnobiology. Indigenous, traditional and local ecological knowledge. Contributions of indigenous, traditional and local ecological knowledge to the understanding of theories, concepts and practices in ecology and evolution. Indigenous and traditional people and their relationships with the conservation of biodiversity and ecosystems. Collaborative research and initiatives between indigenous and non-indigenous knowledge systems. Socio-ecological systems and Common Property Theory. Community management and co-management inside and outside protected areas. Adaptive management and collaborative management associated with local development. Integrated methodological approaches. Access to local knowledge associated with biodiversity and benefit sharing.

TIMELINE		
DATE	Class subject	Teacher
12/mar	Presentation of the discipline, approaches to the study of the human dimensions of biodiversity	All
19/mar	Nature and Society	Nivaldo and Carolina
26/mar	Access to local knowledge associated with biodiversity and benefit sharing	Natalia
02/apr	Indigenous peoples and traditional peoples: research and collaborative initiatives between indigenous and non-indigenous knowledge systems	Natalia Carolina
09/apr	Historical ecology and domesticated landscapes: definitions and concepts (part 1)	Nivaldo and Carolina
16/apr	Historical Ecology and Domesticated Landscapes: Contributions of indigenous, traditional and local ecological knowledge to the understanding of theories, concepts and practices in ecology and evolution (part 2)	Carolina and Nivaldo

23/apr	Resilience of Socio-ecological Systems	Natalia and Nivaldo
30/apr	Community management and co-management - Ecosystem services and nature's contribution to people	Nivaldo and Natalia
7/may	Integrated methodological approaches and case studies	Nivaldo
14/may	Integrated methodological approaches and case studies	Natalia
21/may	Integrated methodological approaches and case studies	Carolina
25-26/ may	Fieldwork (to be confirmed)	
28/may	No class - Seminar preparation	-
04/jun	Seminars	All
11/jun	Seminars	All
18/jun	Seminars and closing of the discipline	All

Recommended Bibliography:

Albuquerque, U.P., Lucena, R.F.P., Cunha, L.V.F.C., Alves, R.N. (Org.). 2019. Methods and Techniques in Ethnobiology and Ethnoecology. Humana New York, NY.
<https://doi.org/10.1007/978-1-4939-8919-5>

Alves, A.G.C., Souto, F.B. e Peroni, N. (orgs.). 2010. Etnoecologia em perspectiva: natureza, cultura e conservação. NUPEEA, Recife.

Anderson, E.N. Pearsall, D., Hunn, E., Turner, N. (orgs.). 2011. Ethnobiology. New Jersey: Wiley-Blackwell

Balée, W. 2006. The Research Program of Historical Ecology. Annual Review of Anthropology, 35, 75–98.

Carneiro da Cunha, M. 2009. Cultura com aspas e outros ensaios. Cosac Naify, São Paulo.

Douglass, K., Walz, J., Quintana Morales, E., Marcus, R., Myers, G., & Pollini, J. 2019. Historical perspectives on contemporary human–environment dynamics in southeast Africa. Conservation Biology, 33(2), 260–274.

Kormondy, E.J. & Brown, D.E. 2002. Fundamentos de Ecologia Humana. Atheneu, São Paulo

Levis, C., Costa, F. R. C., Bongers, F., Peña-Claros, M., Clement, C. R., Junqueira, A. B., Neves, E. G., Tamanaha, E. K., Figueiredo, F. O. G., Salomão, R. P., Castilho, C. V., Magnusson, W. E., Phillips, O. L., Guevara, J. E., Sabatier, D., Molino, J. F., Cárdenas López, D., Mendoza, A. M., Pitman, N. C. A., ... Ter Steege, H. (2017). Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. Science, 355(6328), 925–931. <https://doi.org/10.1126/science.aal0157>



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McAlvay, A. C., Armstrong, C. G., Baker, J., Elk, L. B., Bosco, S., Hanazaki, N., ... & Vandebroek, I. (2021). Ethnobiology phase VI: Decolonizing institutions, projects, and scholarship. *Journal of Ethnobiology*, 41(2), 170-191.

Moran, E.F. 2006. *People and Nature: an introduction to human ecological relations*. Blackwell, Malden.

SBPC. 2022. Povos tradicionais e biodiversidade no Brasil – Contribuições dos povos indígenas, quilombolas e comunidades tradicionais para a biodiversidade, políticas e ameaças. Disponível em:
<https://portal.sbpcnet.org.br/publicacoes/povos-tradicionais-e-biodiversidade-no-brasil/#>

Tagliari, Mario M.; Carolina Levis; Bernardo M. Flores; Graziela D. Blanco; Carolina T. Freitas; Juliano A. Bogoni; Ghislain Vieilledent; Nivaldo Peroni. Collaborative management as a way to enhance Araucaria Forest resilience. *Perspectives in Ecology and Conservation* 19 (2021) 131–142. <https://doi.org/10.1016/j.pecon.2021.03.002>

Additional bibliography:

Articles recommended for each class