

Environmental Management – Undergraduate Course

CLASSIFICATION: OPTIONAL - 4 CREDITS - 60 HOURS

PROFESSOR: RAONI RAJÃO (rajao@ufmg.br)

SYLLABUS:

Public and private environmental management tools; Environmental conservation as a political problem; Environmental conservation as an economic problem; Climate change: science and policy; Climate Science and Denialism; Environmental management of agricultural enterprises; Challenges for combating deforestation; Corporate environmental management; Sustainability of production chains; Conservation as a commodity: REDD+ and carbon credits.

STRUCTURE OF THE COURSE:

#	Subject	Literature
1-2	[A] Presentation of the course	
3-4	[A] Environmental conservation as a political problem	MAY (2018): capítulo 10
5-6	[A] Conservation as a commodity: PES, REDD+, CRA and others	MAY (2018): capítulo 16
7-8	[A] History of environmental management	
9-10	[A] Climate change: science and policy	RAJÃO e DUARTE (2018)
11-12	[P] Group A: Climate Science and Denialism	LAHSEN (2009); (2020)
15-16	[Q] Group B: agribusiness as an environmental villain or good guy?	ALONSO; COSTA e MACIEL (2007); VIOLA e FRANCHINI (2014)
17-18	[A] Challenges for combating deforestation in Brazil	RAJÃO; GUIDICE; VAN DER HOFF e CARVALHO (2021)
19-20	[P] Group C: Corporate environmental management: new paradigm or marketing	FINEMAN (2001);
21-22	[A] Soy Moratorium and Beef TAC: commitments and agreements to clean up production chains	ARMELIN; BURNIER e GROSSI (2020)
23-24	[P] Group D: Sustainability in the international production chain	Rajão et al, 2020, MAY (2018): capítulos 11 e 14; CABEZAS; BELLFIELD; LAFORTUNE; STRECK <i>et al.</i> (2019); SILVESTRE;

		MONTEIRO; VIANA e DE SOUSA-FILHO (2018)
25-26	[A] Conservation as a commodity: PES, REDD+, CRA and others	(MAY, 2018): capítulo 16
27-28	[P] Group E: Carbon market: from the global north to the south	DINIZ OLIVEIRA; COSTA GURGEL e TONRY (2021); STRECK (2020); WORLD BANK (2021)
29-30	Final discussion of the course	

[A] Theoretical class by the teacher.

[P] Practical activity with student presentation.

OBJECTIVES AND METHODOLOGY:

This course seeks to provide students with analytical tools to understand the context in which environmental management is inserted in public and private organizations, with an additional focus on sustainable industrial and agricultural production. It will be given particular emphasis to the economic instruments of environmental management, such as ESG, carbon market and payment for environmental services. These examples are analyzed from theoretical perspectives linked to the social studies of science and technology and ecological economics.

EVALUATION:

Presentation (group): 30 points

Report (Group): 40 points

Delivery of lists of questions and participation in the classroom (individual): 30 points

Each paper/article/presentation will be evaluated according to the following criteria of equal weight:

- Theory: ability of the student/group to understand the concepts discussed in the course;
- Content: richness of detail and depth of the case study presented;
- Form: ability to present the case, the theory and to carry out the analysis in a clear and structured way.

BASIC REFERENCES:

MAY, P. (ed.). **Economia do Meio Ambiente - 3a Edição**. Rio de Janeiro: Elsevier Editora Ltda., 2018.

RAJÃO, R.; DUARTE, T. Performing postcolonial identities at the United Nations' climate negotiations. **Postcolonial Studies**, 21, n. 3, p. 364-378, 2018/07/03 2018.

MIGUEL, J. Negacionismo climático no Brasil. **Coletiva: Revista de divulgação científica**, 27, p. 1-1, 2020.

ALONSO, A.; COSTA, V.; MACIEL, D. Identidade e estratégia na formação do movimento ambientalista brasileiro. **Novos Estudos - CEBRAP**, 79, p. 151-167, 2007.

FINEMAN, S. Fashioning the Environment. **Organization**, 8, n. 1, p. 17-31, 2001.

CABEZAS, S. C.; BELLFIELD, H.; LAFORTUNE, G.; STRECK, C. *et al.* **Towards more sustainability in the soy supply chain: How can EU actors support zero-deforestation and SDG efforts?** Climate Focus. s.l. 2019.

SILVESTRE, B. S.; MONTEIRO, M. S.; VIANA, F. L. E.; DE SOUSA-FILHO, J. M. Challenges for sustainable supply chain management: When stakeholder collaboration becomes conducive to corruption. **Journal of Cleaner Production**, 194, p. 766-776, 2018/09/01/ 2018.

DINIZ OLIVEIRA, T.; COSTA GURGEL, A.; TONRY, S. Potential trading partners of a brazilian emissions trading scheme: The effects of linking with a developed region (Europe) and two developing regions (Latin America and China). **Technological Forecasting and Social Change**, 171, p. 120947, 2021/10/01/ 2021.

COMPLIMENTARY REFERENCES:

ARMELIN, M. J. C.; BURNIER, P. C.; GROSSI, N. T. B. R. **10 anos TAC da carne no Pará e compromisso público da pecuária: a importância da rastreabilidade da carne na redução dos desmatamentos na Amazônia.** Amigos da Terra. s.l. 2020.

BANGA, J. The green bond market: a potential source of climate finance for developing countries. **Journal of Sustainable Finance & Investment**, 9, n. 1, p. 17-32, 2019/01/02 2019.

DEUTZ, A.; HEAL, G. M.; NIU, R.; SWANSON, E. *et al.* **Financing Nature: Closing the Global Biodiversity Financing Gap.** The Paulson Institute
The Nature Conservancy
Cornell Atkinson Center for Sustainability. s.l. 2020.

ESCRIG-OLMEDO, E.; FERNÁNDEZ-IZQUIERDO, M. Á.; FERRERO-FERRERO, I.; RIVERA-LIRIO, J. M. *et al.* Rating the Raters: Evaluating how ESG Rating Agencies Integrate Sustainability Principles. **Sustainability**, 11, n. 3, p. 915, 2019.

LAHSEN, M. A science–policy interface in the global south: the politics of carbon sinks and science in Brazil. **Climatic Change**, 97, n. 3, p. 339, July 28 2009. journal article.

MACKENZIE, D. Making things the same: Gases, emission rights and the politics of carbon markets. **Accounting, Organizations and Society**, 34, n. 3–4, p. 440-455, 4// 2009.

MAY, P. (ed.). **Economia do Meio Ambiente - 3a Edição**. Rio de Janeiro: Elsevier Editora Ltda., 2018.

ORESQUES, N.; CONWAY, E. M. **Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco Smoke to Global Warming**. New York: Bloomsbury Press, 2010.

POMPEIA, C. Concertação e poder: o agronegócio como fenômeno político no Brasil. **Revista Brasileira de Ciências Sociais**, 35, n. 104, p. 1-17, 2020.

RAJÃO, R.; GUIDICE, R. D.; VAN DER HOFF, R.; CARVALHO, E. B. d. **Uma Breve História da Legislação Florestal Brasileira: contém a Lei no 12.651, de 2012, com comentários críticos acerca da aplicação dos seus artigos**. Rio de Janeiro: Expressão, 2021.

STRECK, C. Who Owns REDD+? Carbon Markets, Carbon Rights and Entitlements to REDD+ Finance. **Forests**, 11, n. 9, p. 959, 2020.

VIOLA, E.; FRANCHINI, M. Brazilian climate politics 2005–2012: ambivalence and paradox. **Wiley Interdisciplinary Reviews: Climate Change**, 5, n. 5, p. 677-688, 2014.

WORLD BANK. **State and trends of carbon pricing**. World Bank. Washington D.C. 2021.