



Course Title	
Disaster Economics	
Lecturer	
Professor Daniel M. Schydlowsky	
Semester	
Spring 2022	
Course requirements	
Course attendance, class participation, timely completion of assignments, keep up with reading assignments.	

#### Final grade components

10% Class participation; 15% Report #1 some due for class of March 9, some due for class of March 16; 15% Report #2 due for class of May 18; 60% Take-home final examination.

### Course schedule

Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)	
1 - Feb 23	Introduction: Student and Faculty presentation         Critical events in a Disaster: what gets destroyed, what gets created, who needs help and who         responds, the role of self-help         Main kinds of disasters and their characteristics: natural (e.g. floods, storms, earthquakes), man-made         (e.g. resulting from conflicts), health (e.g. covid-19)         Financial and economic consequences of disasters:         overview         The Covid-19 "special circumstances": identification, short run impact, longer term consequences of         financial and economic impact         Readings:         Schydlowsky 2020 Sec 2         Schydlowsky 2021 The new "initial conditions"         ECLAC skim         UN Emergency Response Fund         OCHA for a sense of the damage	
2 - Mar 2	Approaches to Disasters: micro, meso, macro, super-macro (intl)The actors: civil defense, ngo's, ministries, bank regulators, insurance regulators, international actorsWhat role finance? Financial needs under disasters: private direct needs, private indirect needs; publicsector needsFinancing vs Insuring: differences and complementaritiesReadings:Meenan et al. Sec 2, 3.1Schydlowsky 2020 Sec 3	





3 - Mar 9	Domestic Financial Authorities and their mandates: central bank, bank regulator, insurance regulator,
	securities regulator
	Readings: Dikau & Volz 2021
	NGFS 2020
4 - Mar 16	International Financial Support Institutions: World Bank, IMF, Basel Institutions, Regional Bank; the special case of AFI (Alliance for Financial Inclusion). Mandate, governance and practice; relation to the UN.
	Readings: Global Facility for Disaster Reduction and Recovery
	World Bank – who we are,
	IMF – who we are, etc. Financial Stability Board
	Alliance for Financial Inclusion
	OCHA (UN)
	United Nations Emergency Response Fund. <u>https://cerf.un.org/about-us/who-we-are</u>
5 - Mar 23	Financial Policy Categories:       The 4 P's: Provide, Promote, Protect, Prevent; Regulatory Sandboxes         Readings:       AFI 2020         Schydlowsky 2020 Sec 4
	Meenan et al. Sec 3
	Frisari et al. skim
	Sandboxes. skim
6 - Mar 30	Financial Prevention Planning: Regulations for prevention/avoidance of disasters. Preventing natural disasters vs preventing man-made disasters. Combining financial incentives with extended due diligence. Readings: AFI 2020
	Meenan et al. Sec 4.1
	NGFS 2020 Schydlowsky & Thompson 2014
	Schydlowsky 2020 Sec 6a
	Schydlowsky 2021 ESRM Implementation Policy: the Goal of ESRM; the Advantages of ESRM
7 - Apr 6	Financial Contingency Planning: Regulations for when the disaster occurs. Alternatives for absorbing the cost: insurance vs finance. Parametric insurance. Reinsurance to widen the pool. Contingency Finance. Moral hazard. Public finance of subnational jurisdictions. Readings:
	Brettler and Gosnear 2020
	FIS Insurance Core Principles – <u>Exec Summary</u>
	IAIS Insurance Core Principles ICP 13 ICP 26
	Martinez-Diaz et al. 2019
	Meenan et al. Sec 4.2, 4.3 Schudlowsky 2020 End of Sec 4 on Moral Hazard, Sec 6h 1
	Schydlowsky 2020 End of Sec 4 on Moral Hazard, Sec 6b.1 Schydlowsky 2021, Disaster Management: Contingency Policy for Business Continuity
	Schydlowsky 2021, Disaster Management: Contingency Policy for Business Continuity





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8 - Apr 27	Financial Recovery Planning: Regulations for after the disaster has occurred. Coping with existing debt. The critical issue of recovery credit worthiness. Newly appropriate credit terms. Horizontal equity issues. Readings: Meenan, Sec. Schydlowsky 2020, Sec 6b2 Schydlowsky 2021, Disaster Management: Contingency Policy for Natural Disaster Recovery; Covid-19 Recovery Policies
9 - May 11	<ul> <li><u>Implementation Details:</u> Avoiding the devil in the fine print: clarity in chain of command; clarity in entitlements of benefits and geographical delimitation; triggers for beginning and end of benefits, phasing; overlapping jurisdictions.</li> <li><u>Readings:</u></li> <li>NGFS 2020</li> <li>Meenan et al. Sec 5</li> <li>Schydlowsky 2020 Sec 7</li> <li>Schydlowsky 2021: ESRM Implementation Policy: Requirements for Banks and Other Financial Institutions; Banking Supervision Requirements.</li> </ul>
10- May 18	Information Requirements:       Historical series for insurance; contemporary data for prevention; transparent property and other records for compensation. The role of social overhead capital in ensuring operability.         Readings:       AFI 2020         NGFS 2020       Schydlowsky 2021: Connectivity and financial inclusion policies; Building institutional overhead capital
11- May 25	Horizontal Connections between Policies: Fitting financial disaster planning into the bigger picture of financial regulatory policy. Connections to conflict prevention and abatement and to climate change. The evolving regulation mandate.  Readings: NGFS 2020 Battiston et al. 2020 Meenan et al. Sec 5 Schydlowsky 2021: Financial Regulatory Policy Appropriate to the Current Circumstances
12- June 1	Horizontal Connections between Policies (continued)
13- June 8	<u>Summary: What have we learned?</u> The critical role of finance in coping with disasters; pervasive role of finance; capacity of financial regulation to leverage changes in behavior; bringing about modifications in behavior through financial regulation. Likely future changes in regulation resulting
	from climate pressures and social conflict pressures.





Alliance for Financial Inclusion (AFI)(2020). "Inclusive Green Finance, A Survey of the Policy Landscape, Second Edition". Referenced as <u>https://www.afi-global.org/publications/3330/Inclusive-Green-Finance-A-Survey-of-the-Policy-Landscape-Second-Edition</u>

Bank for International Settlements, <a href="https://www.fsb.org/about/">https://www.fsb.org/about/</a>

 
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 International
 Settlements,
 https://www.fsb.org/work-of-the-fsb/about-the-compendium-ofstandards/wssb/?page\_moved=1

Bank for International Settlements, Financial Stability Institute: FSI – Insurance Core Principles Executive Summary Battiston, Stefano, Billio, Monica, and Irene Monasterolo (2020). "Pandemics, climate and public finance: how to strengthen socio-economic resilience across policy domains". In: A New World Post COVID-19 Lessons for Business, the Finance Industry and Policy Makers, edited by Monica Billio and Simone Varotto, Edizioni Ca' Foscari

Caribbean Catastrophic Risk Insurance Facility SPC <a href="https://www.ccrif.org/">https://www.ccrif.org/</a>

Brettler, D. & Timothy Gosnear, (2020) "Parametric Insurance Fills Gaps Where Traditional Insurance Falls Short" Insurance Journal, January

Dikau, S., U.Volz (2021), "Central bank mandates, sustainability objectives and the promotion of green finance", <u>Ecological</u> <u>Economics</u>

ECLAC (2014), <u>Handbook for Disaster Assessment</u>, referenced as <u>https://www.cepal.org/en/publications/36823-handbook-disaster-assessment</u>

Frisari Gianleo, Matías Gallardo, Chiemi Nakano, Víctor Cárdenas and Pierre Monnin (2019), <u>Climate Risk and Financial</u> <u>Systems of Latin America: Regulatory, Supervisory and Industry Practices in the Region and Beyond</u>, InterAmerican Development Bank, Climate Change Division, Technical Note No. IDB-TN-01823

Global Facility, https://www.gfdrr.org/en/global-facility-disaster-reduction-and-recovery

IAIS Insurance Core Principles, selected core principles

IMF, https://www.imf.org/en/Home

Martinez-Diaz, Leonardo, Lauren Sidner, and Jack Mcclamrock (2019), "The Future of Disaster Risk Pooling for Developing Countries: Where Do We Go From Here?," World Resource Institute Working Paper, referenced as <a href="http://www.wri.org/publication/disaster-risk-pooling">http://www.wri.org/publication/disaster-risk-pooling</a>

Meenan, Conor, John Ward, Robert Muir-Wood, (2019), Disaster Risk Finance - A Toolkit, GiZ





Network for Greening the Financial System (2020), <u>Guide for Supervisors Interating Climate-related and Environmental</u> <u>Risks into Prudential Supervision</u>

Schydlowsky, D.M. (2020), "Prudential Retulations for Greening the Financial System: Coping with Climate Disasters", Latin American Journal of Central Banking

Schydlowsky, D.M. (2021), "Green Financial Regulatory Policy for Latin America in the Aftermath of Covid-19" Boston University Global Policy Development Center

Schydlowsky, D.M. and Robert C. Thompson (2014) "Reducing the Financial Risk of Social Conflict", <u>Americas Quarterly</u>, Spring,

United Nations, Office for the Coordination of Humanitarian Affairs, OCHA (2019), <u>Natural Disasters In Latin America</u> <u>And The Caribbean, 2000-2019, referenced as</u> <u>https://reliefweb.int/sites/reliefweb.int/files/resources/20191203-ocha-desastres\_naturales.pdf</u>

United Nations Emergency Response Fund. <u>https://cerf.un.org/about-us/who-we-are</u>

#### World Bank,

https://www.worldbank.org/en/about/leadership?cid=ECR\_GA\_worldbank\_EN\_EXTP\_search&gclid=Cj0KCQiAw9qOBhC-ARIsAG-rdn7RV\_TJA3mNm\_YfYn1C-eqS1HUf8Lq26muVJwz5ZAdZsaJ7QQ\_ISrMaAk4aEALw\_wcB

#### **Optional course reading**

Barcena, Alicia, Jose Luis Samaniego, Wilson Peres, Jose Eduardo Alatorre (2020), <u>The Climate Emergency In</u> Latin America And The Caribbean The Path Ahead – Resignation Or Action?, ECLAC

Basel Committee on Banking Supervision (2020) <u>Climate-related financial risks: a survey on current initiatives</u>, April

Batten, S., R. Sowerbutts and M. Tanaka (2016) "Let's talk about the weather: the impact of climate change on central banks", Working Paper No. 603, Bank of England

IAIS Insurance Core Principles

SANDBOXES: Herrera, D. Herrera, Diego and Sonia Vadillo (2918), <u>Regulatory Sandboxes in Latin America and the</u> <u>Caribbean for the FinTech Ecosystem and the Financial System</u>, InterAmerican Development Bank, Institutions for Development Sector, Connectivity, Markets, and Finance Division Discussion Paper Nº IDB-DP- 573, March; Wechsler, Michael, Leon Perlman, and Nora Gurung, (2018), "The State of Regulatory Sandboxes in Developing Countries", Digital Financial Services Observatory, Columbia Institute for Teleinformation, Columbia University, referenced as <u>https://dfsobservatory.com/sites/default/files/DFSO%20-</u>

%20The%20State%20of%20Regulatory%20Sandboxes%20in%20Developing%20Countries%20-%20PUBLIC.pdf

OECD, Policy Guidance on Insurance (2020), https://www.oecd.org/daf/fin/insurance/Policy-Guidance-on-the-Structure-of-Insurance-Regulation-and-Supervision.pdf



