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**API-120: Advanced Macroeconomics of Open Economies 2, Spring2022**

**Harvard Kennedy School, Harvard University**

**Staff --
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**2nd Professor: Federico Sturzenegger** fsturzenegger@udesa.edu.ar
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Course Assistants: Maria Fayos Herrera, Saurabh Pratap Singh, and Octavio Zunino

**Times --**
**Lectures: Tuesdays and Thursdays, 1:30-2:45 p.m. in L-140**.Review Sessions: Fridays, 1:30-2:45pm & 3:00 -4:15 pm in Starr Auditorium

 (+ 3 Wed. sessions on March 30, April 13, April 27; 4:30-5:45pm in L140)

Final exam: Friday, May 6, 2-5:00 pm.

**Course Description**: API-120 is “Macro 2” -- the second in the two-course sequence on Advanced Macroeconomics of Open Economies in the MPA/ID program. Topics covered in the first half of Macro 2 include international financial integration, exchange rate models, speculative attacks, the carry trade, portfolio choice, currency risk, default risk, and debt sustainability analysis. The second half of the course uses tools of dynamic optimization. It begins with long-term growth theory including the Solow, Ramsey, and endogenous growth models. It then offers primers on Overlapping Generations, Real Business Cycle theory, New Keynesian models, and Dynamic Stochastic General Equilibrium models.

**Nature of the approach**:The course is largely built around analytical models. Although real-world examples will appear throughout, the course will rely heavily on theoretical and econometric analysis, as is customary in economics classes. The second half of Macro 2 calls for higher level of math.

**Who is expected to take the course**: This course, like Advanced Macroeconomics for the Open Economy 1 (API 119), is a required component of the MPA / International Development sequence. In addition to MPA/ID students, another student who has successfully taken API 119 in the fall can be admitted by permission of instructor.

 **Weekly structure of the course:**

 A standard week will consist of two units. Each unit will consist of:
(i) a required reading (plus others recommended). Before each live lecture, you should complete the required reading for the new unit**;**

(ii) the live lecture from the Professor;

(iii) an asynchronous component, which will include a recorded mini-Lecture from the professor, plus one or more quizzes. For Units 1-13, do the asynchronous component after the live lecture, as in API-119. For Units 15-26, do the asynchronous component *before the live lecture*, as in some other MPA/ID courses.

 There will be a substantive review session conducted by the Teaching Fellow (TF) from 1:30-2:45pm & 3:00 -4:15 pm on Fridays. There will be six problem sets. For Problem Sets 4-6 we will hold an extra TF review session on the Wednesday before the due date (March 30, April 13, April 27) from 4:30-5:45pm, in L140.

 The entire teaching team will also hold office hours. Students should make heavy use of mpaid.macro@gmail.com, sending any and all questions to it. The teaching team will monitor it frequently. The response to a student’s question may be a directly e-mailed answer, a decision to dedicate somebody’s office hours to the topic in question, or the arrangement of a special bilateral appointment.

**Grading**: 20%: 6 Problem sets
 20%: Quizzes (in asynchronous modules)
 20%: Mid-term exam
 35%: Final exam
 5%: Course participation.

### Problem Set Due date (10:00 am). No late problem sets.

1. Friday, Feb. 4
2. Friday,Feb. 18
3. Friday, Feb. 25
 *[Mid-term exam, Thurs. March 10, in class]*
4. Friday, April 1
5. Friday, April 15
6. Friday, April 29
*[Final exam: Friday, May 6. 2:00-5:00 pm]*

 Please note the dates for the mid-term and final exam. If you have conflicts for those dates,
you should not register for the course.

 Students must take quizzes and exams alone; no discussion with other students is allowed.

Students are responsible for knowing what is in [the Academic Code](https://www.hks.harvard.edu/educational-programs/academic-calendars-policies/student-handbook/general-regulations-and-1), including this paragraph:
*“Cheating on assignments or exams, plagiarizing or misrepresenting the ideas or language of someone else as one’s own, falsifying data, or any other instance of academic dishonesty violates the standards of our community, as well as the standards of the wider world of learning and affairs…If students submit work either not their own or without clear attribution to the original source, including but not limited to the Internet, they will be subject to discipline by the HKS Administrative Board, ranging from a warning to required withdrawal or expulsion from HKS.”*

Topics and Lecture dates Problem Set due-dates

**First half of semester: Professor J. Frankel**

**I. INTEGRATION OF FINANCIAL MARKETS**

1. (1/25/2021) The theory of gains from intertemporal trade
Mini-lecture: Graphical analysis
2. (1/27) Do financial markets work in practice as they do in theory?
Mini-lecture: Macro-prudential policies

1. (2/1) Measuring financial integration: Interest Rate Parity

Mini-lecture: Quantity tests of financial integration

**II. EXPECTATIONS, MONETARY POLICY, AND EXCHANGE RATE DETERMINATION**

1. (2/3) With flexible goods prices \_\_\_ PS 1 due 2/4
Mini-lecture: Derivation of the model with rational expectations
2. (2/8) The speculative attack model
Mini-lecture: Generations 2 & 3 of speculative attack models
3. (2/10) With sticky prices: The overshooting model
Mini-lecture: Empirical performance of exchange rate forecasts

**III. THE CARRY TRADE, RISK, & PORTFOLIO DIVERSIFICATION**

1. (2/15) Forward rate bias
Mini-lecture: Introduction to the exchange risk premium and portfolio balance model
2. (2/17) Optimal portfolio diversification \_\_\_PS 2 due 2/18

Mini-lecture: The efficient frontier, as viewed by Botswana’s Pula Fund

1. (2/22) Home bias, currency risk, and equity risk
Mini-lecture: The model applied to country risk

**IV. DEBT & EM CRISES**

1. (2/24) Debt Sustainability Analysis \_\_\_ PS 3 due 2/25
Mini-lecture: Explosive debt
2. (3/1) Sovereign Default (Guest lecture with F.Sturzenegger)
Mini-lecture: Consequences of default
3. (3/3) Political business cycles and other fiscal failures
Mini-lecture: The case of Chile’s fiscal institutions
4. (3/8) EM crises: Early Warning Indicators
5. (3/10)  *Midterm exam*

 [March 12 – March 20 SPRIING BREAK]

**Second half of semester: Professor F. Sturzenegger**

**V**. **GROWTH THEORY**

1. (3/22) Solow/Ramsey neoclassical growth model

Mini-lecture: A review of differential equations and Hamiltonians

1. (3/24) Endogenous growth: Factor accumulation

Mini-lecture: The Solow model with reproducible factors

1. (3/29) Endogenous growth: Models of innovation

Mini-lecture: Can innovation be faster than optimal?

1. (3/31) Overlapping Generation Models

Mini-lecture: The r<g economy
 \_ \_\_ PS 4 due 4/1

1. (4/5) OLG application: Social Security

Mini-lecture: How policy can go wrong.

1. (4/7) Secular Stagnation or Explosive Growth? Taking the Theory to Practice

Mini-lecture: An introduction to Eggerston, et al.

**IV** **BUSINESS CYCLE THEORY**

1. (4/12) Real Business Cycles

Mini-lecture: What is calibration?

1. (4/14) Search Theory and Unemployment Models

Mini-lecture: Introducing a Bellman Equation

 \_\_\_ PS 5 due Fri. 4/15

1. (4/19) New Keynesian models of fluctuations

Mini-lecture: The Lucas model

1. (4/21) The DSGE approach

Mini-lecture: Estimation of DSGE models

1. (4/26) Vector Autoregression (VAR)

Mini-lecture: TBD

**V. DOING POLICY**

1. (4/28) Doing Policy: A Personal Conversation \_\_\_ PS 6 due 4/29

 Final exam: May 6. 2:00-5:00 pm.

**Readings**

\* = required reading

\*\* = required strongly

\*\*\* = required strongly to read *before* lecture. You may be called upon.

**Readings for first half of semester (Prof. Frankel)**

The textbooks are the same as for API-119:

1. *World Trade & Payments* (WTP), by R.Caves, J.Frankel, and R.Jones (10th edition, Addison Wesley, 2007) is available via the [Coop](https://tinyurl.com/F21-HKS-API119-1); or at the professor’s [Publications](https://scholar.harvard.edu/frankel/publications-1) page; or via chapter links below, as are other readings.
2. *An Easy Guide to Advanced Macroeconomics*, by Filipe Campante, Federico Sturzenegger and Andres Velasco 2021 (LSE Press) is now [available online](https://press.lse.ac.uk/site/books/m/10.31389/lsepress.ame/) and should also be available at the Canvas course page and at the [Coop](https://tinyurl.com/F21-HKS-API119-1).
3. **INTEGRATION OF FINANCIAL MARKETS**
4. (1/26) The theory of gains from intertemporal trade

 *World Trade and Payments*, 10th edition, [Chapter 21](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp21.p409-444.pdf).5. \*\*\*

M. Obstfeld & K. Rogoff, 1996, *Foundations of International Macroeconomics*, Parts 1-4.

1. (1/28) The Lucas Paradox and other Imperfections in financial markets

Carmen Reinhart and Kenneth Rogoff, 2004, "[Serial Default And The 'Paradox' Of Rich-To-Poor Capital Flows,](http://ideas.repec.org/a/aea/aecrev/v94y2004i2p53-58.html)" *American Economic Review*, vol. 94, no.2, May, 53-58. \*\*\*

Eswar Prasad, Raghu Rajan, and Arvind Subramanian, 2007, “[The Paradox of Capital](https://users.nber.org/~wei/data/FinGlobal-F%26D.pdf#page=18),” *Finance & Development*, (IMF), March, 44, no.1, 10-13. \*

Robert Lucas, 1990, "[Why Doesn't Capital Flow from Rich to Poor Countries](https://www.nyu.edu/econ/user/debraj/Courses/Readings/LucasParadox.pdf)?" *American Economic Review* 80, no. 2: 92–96.

Laura Alfaro, Sebnem Kalemli-Ozcan and Vadym Volosovych, 2008, “[Why Doesn’t Capital Flow from Rich to Poor Countries?](https://sites.hks.harvard.edu/fs/jfrankel/API120/Alfaro_et_al_Why_Doesnt_Capital_Flow_NBER_WP_11901.pdf) An Empirical Investigation,” [*Rev.Ec.& Stat.*](http://ideas.repec.org/s/tpr/restat.html)*,* [90, 2, 347-68](https://www.mitpressjournals.org/doi/abs/10.1162/rest.90.2.347). [NBER WP 11901](https://www.nber.org/papers/w11901).

Mark Aguiar and Gita Gopinath, 2007, “[Emerging Market Business Cycles: The Cycle is the Trend](http://www.economics.harvard.edu/faculty/gopinath/files/cycleisthetrend.pdf),” Journal of Political Economy 115, 1, February.

1. (2/2) Interest Rate Parity & other tests of financial integration

*WTP*, Chapters [21.4](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp21.p409-444.pdf), [27.1](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp27.p571-606.pdf) . \*\*\*

###  The International Monetary Fund, 2012, [“The Liberalization and Management of Capital Flows: An Institutional View.”](https://www.imf.org/external/np/pp/eng/2012/111412.pdf) November.

S. Avdjiev, W. Du, C. Koch, and H.S. Shin, 2019, “[The Dollar, Bank Leverage and Deviations from Covered Interest Parity](http://www.dropbox.com/s/tzm2ytm48591jiw/Manuscript_Avdjiev_Du_Koch_Shin_AER_Insights_Revision.pdf),” [*American Economic Review: Insights*, September, 1, no. 2, 193-208](https://www.aeaweb.org/articles?id=10.1257/aeri.20180322).

**II. MONEY & MODELS OF EXCHANGE RATE DETERMINATION**

1. (2/4) With flexible prices

*WTP*, 10th edition, [Chapter 27.2-27.3](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp27.p571-606.pdf) and [Supplement to Ch. 27, S51-55](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.supp_.ps1-s58.pdf)  \*\*\*

Michael Mussa, 1976, "The Exchange Rate, the Balance of Payments, and Monetary and Fiscal Policy under a Regime of Controlled Floating, *Scandinavian J. of Econ.*78, May, 229-48.

Robert Lucas, 1982, “[Interest Rates and Currency Prices in a Two-country World](http://linkinghub.elsevier.com/retrieve/pii/0304393282900320),” *Journal of Monetary Economics* 10, 3, 335-359.

**“**[One-way baht: For 15 years, 2 currencies have outperformed all others](https://www.economist.com/finance-and-economics/2019/12/05/for-15-years-two-currencies-have-outperformed-all-others),” *Economist*, Dec.7, 2019. \*\*

1. (2/9) Speculative attack models

*WTP,* 10th edition, [Ch. 24.3](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp24.p489-524.pdf) **\*\*\***

Roberto Chang and Andres Velasco, 2000, “Liquidity Crises in Emerging Markets: Theory and Policy,” in *NBER Macroeconomics Annual* (MIT Press, Cambridge).

1. (2/11) With sticky prices: the overshooting model

*WTP*, [Chapter 27.4-27.6](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp27.p571-606.pdf). \*\*\*

Rudiger Dornbusch, 1976, "[Expectations & Exchange Rate Dynamics](https://www.uni-erfurt.de/fileadmin/user-docs/Makrooekonomie/SS2013/MA_MakroII/Dornbusch_1976_-_Expectations_and_Exchange_Rate_Dynamics.pdf)" [*JPE*](https://www.journals.uchicago.edu/doi/abs/10.1086/260506)*,* 84, 1161-76. \*\*

Kenneth Rogoff, 2002, "[Dornbusch's Overshooting Model After 25 Years](https://www.imf.org/external/pubs/ft/wp/2002/wp0239.pdf)," The Mundell-Fleming Lecture*, IMF Staff Papers* 49. \*

YW Cheung, Menzie Chinn, A.Garcia Pascual, and Yi Zhang, 2019, “[Exchange Rate Prediction Redux: New Models, New Data, New Currencies](https://www.ssc.wisc.edu/~mchinn/Cheung_Chinn_GarciaPascual_Zhang_JIMF2019.pdf),” *J. Intl. Money and Finance*,[Vol. 95](https://www.sciencedirect.com/science/journal/02615606/95/supp/C), July, pp.332-362. \*

1. **THE CARRY TRADE, RISK, PORTFOLIO DIVERSIFICATION**
2. (2/16) Forward bias and the risk premium

*World Trade and Payments*, 10th ed., [Chapter 28.1](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp28.p607-624.pdf) \*\*\*

Charles Engel, 2014, “[Exchange Rates and Interest Parity](https://www.sciencedirect.com/science/article/pii/B9780444543141000082?casa_token=X0D5i1oBhIUAAAAA:DJr1jq5QAd9Fet64nM4qY5dPZsEOnDyWyhwTqpaIxOssTKIN9h2RxCgeC4dfxEIwy4sjdo-2IM0).” *Handbook of International Economics*, vol. 4, pp. 453-522.

Markus Brunnermeier, Stephan Nagel & Lasse Pedersen, 2009, “[Carry Trades and Currency Crashes](http://www.nber.org.ezp-prod1.hul.harvard.edu/chapters/c7286),” [NBER Macro Annual 2008, vol.23](http://www.nber.org.ezp-prod1.hul.harvard.edu/books/acem08-1), D.Acemoglu, K.Rogoff & M.Woodford, eds. NBER WP 14473.

Craig Burnside, Martin Eichenbaum and Sergio Rebelo, 2007. "The Returns to Currency Speculation in Emerging Markets," *Am Econ Rev*., 97(2), pp. 333-38, May. [NBER WP 12489.](http://www.nber.org.ezp-prod1.hul.harvard.edu/papers/w12489)

# “[The return of the carry trade: Interest-rate rises in some big emerging markets will entice foreign capital](https://www.economist.com/finance-and-economics/2021/07/03/the-return-of-the-carry-trade),” *The Economist*, July 3, 2021. \*\*

1. (2/18) Optimal portfolio diversification

 *World Trade and Payments,* [Chapter 28.2](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp28.p607-624.pdf) & [Supplement to Ch.28, pp. S55-S58](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.supp_.ps1-s58.pdf). \*\*\*

Hanno Lustig & Adrien Verdelhan, 2011, "[The Cross-Section of Foreign Currency Risk Premia and Consumption Growth Risk: Reply,](http://ideas.repec.org/a/aea/aecrev/v101y2011i7p3477-3500.html)" *AER,* 101, no.7,Dec.. [NBER WP 13812](http://www.nber.org.ezp-prod1.hul.harvard.edu/papers/w13812).

“[Fear and favour: Exchange-rate shifts have helped the global economy](https://www.economist.com/news/finance-and-economics/21728629-euros-strength-and-dollars-weakness-have-had-benign-effects-exchange-rate)*,” The**Economist*, Sept. 7, 2017.

1. (2/23) Exchange rate risk, equity risk, and home bias

*World Trade and Payments*, [Chapter 28.3](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp28.p607-624.pdf) \*\*\*

 Nicolas Coeurdacier and Hélène Rey, 2013, ["Home Bias in Open Economy Financial Macroeconomics,"](https://pubs.aeaweb.org/doi/pdfplus/10.1257/jel.51.1.63) *Journal of Economic Literature*, 51 (1): 63-115.

**IV. DEBT & EM CRISES**

1. (2/25) Debt Sustainability Analysis

*WT&P*, [Supplement to Ch.24, pp. S47-S48](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.supp_.ps1-s58.pdf) (DSA in continuous time). \*\*\*

*FSV* ([Chapter](https://press.lse.ac.uk/site/chapters/m/10.31389/lsepress.ame.q/) “22”) 17.7, pp.273-274 (DSA in discrete time). \*\*

"[Brazil warned of 'explosive' build-up of public debt](https://mail.hks.harvard.edu/owa/redir.aspx?C=EjVdyT17jNUxyy_mbkVP5oTmSE8ehlL_R2DBm-bWDDxQsnFcgSjUCA..&URL=https%3a%2f%2fwww.ft.com%2fcontent%2f22c16ec6-1ed1-11e6-8fa5-44094f6d9c46)," *Financial Times*, 24 May 2016.

Klaus Regling, “[Solidarity with Greece will render its debt sustainable](https://www.ft.com/content/e18fdd58-9d2c-11e7-9a86-4d5a475ba4c5),” *FT*, Sept. 19, 2017.
“[The eurozone recovery achieves critical mass](https://www.ft.com/content/e18fdd58-9d2c-11e7-9a86-4d5a475ba4c5),” *Financial Times,* Sept. 20, 2017.

“[IMF warns eurozone that Greece needs more Greek debt relief](https://www.ft.com/content/02f49c50-94c0-11e8-b747-fb1e803ee64e),” *Fin. Times*, Aug. 1, 2018.

[“Why securing debt forgiveness for poor countries is so hard”](https://www.economist.com/finance-and-economics/2020/10/17/why-securing-debt-forgiveness-for-poor-countries-is-so-hard) *Economist*, Oct.17, 2020. \*\*

1. (3/2) Sovereign default [Federico: is there a section of FSV you want to assign here?]

Federico Sturzenegger, 2020, “Do We Need to Rethink Debt Policy in Latam?” [UNDP LAC C19 PDS No. 23](https://drive.google.com/file/d/1jN5o0jUTtVzs9Y92_Nvkt3pnlUnyrcYS/view), Nov. \*\*\*

# F.Sturzenegger & Jeromin Zettelmeyer, 2007, *Debt Defaults and Lessons from a Decade of Crises* (MIT Press), [Chapters 1-3.](https://canvas.harvard.edu/courses/86526/files/11904143/download?download_frd=1)

Josefin Myer, Carmen Reinhart, & Christoph Trebesch, 2019, “**Sovereign Bonds since Waterloo,”** NBER WP No. [25543](https://www.nber.org/papers/25543). [Summary in *NBER Digest*](https://www.nber.org/digest/apr19/w25543.shtml)*,* April 2019. \*

 J.Bulow, C.Reinhart, K.Rogoff & C.Trebesch, 2020, “[The Debt Pandemic](https://www.imf.org/external/pubs/ft/fandd/2020/09/debt-pandemic-reinhart-rogoff-bulow-trebesch.htm),” *Finance & Dev.*, Fall. \*\*
 “[Frontier market borrowing binge](https://blogs.imf.org/2019/11/18/frontier-market-borrowing-binge),” IMF blog with video, Nov. 18, 2019.

# “[Jamaica’s tumultuous relationship with the IMF has a happy ending](https://www.economist.com/the-americas/2019/11/09/jamaicas-tumultuous-relationship-with-the-imf-has-a-happy-ending),” *The Economist*, Nov. 9, 2019.

# “[Zambia was already a case study in how not to run an economy. Then came covid-19](https://www.economist.com/middle-east-and-africa/2020/05/02/zambia-was-already-a-case-study-in-how-not-to-run-an-economy),” *The Economist,* May 2, 2020.

# “[Transparency offers way out of Zambia debt crisis](https://www.ft.com/content/c4c0eb1b-9801-4054-9a49-6794997e33cb),” *Financial Times*, Oct. 19, 2020. \*

# “[Debt dilemma: Emerging countries seek action to avert crisis,”](https://www.ft.com/content/de43248e-e8eb-4381-9d2f-a539d1f1662c) *Financial Times*, Dec. 20, 2020. \*

# “[Default option: Poor countries struggling with debt fight to get help](https://www.economist.com/international/2021/03/04/poor-countries-struggling-with-debt-fight-to-get-help),” *Economist,* March 6, 2021.\*\*

1. (3/4) The Political Business Cycle and other fiscal failures

*CSV* ([Chapter “23”):](https://press.lse.ac.uk/site/chapters/m/10.31389/lsepress.ame.r/) 18.2, Political Economy Approach; Rules & Institutions, pp.299-302.\*\*\*
 J. Frankel, Carlos Végh and Guillermo Vuletin, 2013, [“On Graduation from Fiscal Procyclicality,”](http://hks.harvard.edu/fs/jfrankel/GraduatnCyclVegh%26Vuletin2012.pdf) J. Development Econ. 100, no.1, Jan., pp.32-47.  [NBER WP 17619](http://www.nber.org/papers/w17619).   Summary: "[Fiscal Policy in Developing Countries: Escape from Procyclicality](http://www.voxeu.org/index.php?q=node/6677)," VoxEU, June 2011. \*\*

“[Sensible budgets are not Ghana’s forte. But there is hope](https://www.economist.com/middle-east-and-africa/2020/09/17/sensible-budgets-are-not-ghanas-forte-but-there-is-hope),” *The Economist*, Sept. 17, 2020.

1. (3/7) EM crises: Early Warning indicators

*WTP*, [Ch. 24.1-24.2,](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp24.p489-524.pdf)  [24.4-24.5 & 24.8](https://scholar.harvard.edu/files/frankel/files/wtpfrankel.cp24.p489-524.pdf)  \*\*

J.Frankel and G.Saravelos, 2012, “[Are Leading Indicators Useful for Assessing Country Vulnerability?  Evidence from the 2008-09 Global Financial Crisis](http://www.hks.harvard.edu/fs/jfrankel/areleadingindicatorsuseful.pdf),” [in J. International Economics.](http://www.sciencedirect.com/science/article/pii/S0022199611001735) 87, no.2, July, 216-231;  [NBER WP 16047](http://www.hks.harvard.edu/fs/jfrankel/SaravelosEWIsNBERWP16047.pdf).  [HKS RWP 11-024](http://web.hks.harvard.edu/publications/workingpapers/citation.aspx?PubId=7865).   [Summary](http://www.hks.harvard.edu/fs/jfrankel/EWIs-F%26Saravelos.doc) at [*VoxEU*](http://www.voxeu.org/article/early-warning-indicators-and-2008-09-crisis-new-evidence), 2010 \*

“[Emerging-market debt: A run for your money](http://www.economist.com/node/16892023/print),” *The Economist,* Aug.28, 2010.
“[Economic epidemiology](http://www.economist.com/node/21556903/print),” *The Economist,* June 16, 2012.

“[Financial indulgence,”](http://www.economist.com/news/finance-and-economics/21600150-cheap-credit-tempting-emerging-markets-towards-risky-borrowing-financial) *The Economist,* April 5, 2014.

“[Emerging markets debt: The well runs dry](https://www.economist.com/finance-and-economics/2016/03/05/the-well-runs-dry),” *The Economist*, March 5, 2016. \*

“[Hot and Sour: What Asia learned from its financial crisis 20 years ago](https://www.economist.com/finance-and-economics/2017/07/01/what-asia-learned-from-its-financial-crisis-20-years-ago),” *The Economist,* July 1, 2017.

”[The fragile four: Which emerging markets are most exposed to a Treasury tantrum?](https://www.economist.com/finance-and-economics/2021/03/04/which-emerging-markets-are-most-exposed-to-a-treasury-tantrum?itm_source=parsely-api)“ *The Economist,* March 6, 2021.

1. (3/11) **Midterm exam**

**Readings for second half of semester (Prof. Sturzenegger)**

Textbooks:

Campante, F., Sturzenegger F. and Velasco A. (2021) “*An Easy Guide to Advanced Macroeconomics*”, forthcoming, LSE Press. (hereafter in the Syllabus CSV). \*\*\*

Romer, David (2019) *Advanced Macroeconomics*, Mc Graw Hill, Fifth Edition. \*

1. (3/18) **Solow and Ramsey’s Neoclassical Growth Model**

CSV, Chapters 1 and 2 and 16.4 \*\*\*

Romer, D (2019) Advanced Macroeconomics, Chapter 1 &2A (Same in 4th and 5th ed) \*

Solow, R. M. (1956). “A Contribution to the Theory of Economic Growth”. *The Quarterly Journal of Economics*, Vol. 70 (1), pp. 65-94.

\*\* Blanchard, O. J., & Fischer, S. (1989) *Lectures on Macroeconomics*. MIT press. Chapter 2.

Ljungqvist, L. and T. Sargent (2018) *Recursive Macroeconomic Theory*, Fourth Edition, The MIT Press.

Straub, L. & Werning, I. (2020) “Positive Long Run Capital Taxation, Chamley and Judd Revisited”, *American Economic Review*, Vol. 110 (1), January, pp. 86-110.

1. (3/23) **Endogenous Growth: Factor Accumulation**

CSV, Chapters 3-9\*\*\*

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