

**Population Economics 01:220:477:01**

Rutgers University, Professor Ira N. Gang, Email: gang at rutgers.edu Include 477 in the subject line

Prerequisites: Intermediate Microeconomics, Intermediate Macroeconomics, Econometrics

Updated: 26 August 2022

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| <p>Fall 2022<br/>Mon+Wed 2:00 - 3:20pm<br/>Murray Hall 212</p> | <p><b>Lecture Schedule, Exam Dates, Readings, Etc.</b> There is no warranty on the dates, order or topics.<br/>Please read all files in the Syllabus Webpages folder under the Files tab; these include detailed instructions and descriptions about the exams, grading, etc. No text or other purchases are required for this class. All other material is free, online and most (maybe all) is in Canvas.</p>  |
| <p>Canvas</p>  | <p>The course management software we will be using is Canvas. Please familiarize yourself with it. All readings and related materials are under the Files tab. Videos are either under the Kaltura Course Gallery tab or under the Big Blue Button (BBB) tab. Exams will be online, under the Quizzes tab. Office Regular online office hours held by our TA will be on Zoom; the link will be available in Files in an appropriately named folder. All communications will be to your official Rutgers email. For tech help with Canvas, please visit <a href="https://it.rutgers.edu/help-support">https://it.rutgers.edu/help-support</a>.</p>  |
| <p>Lectures</p>  | <p><b>Except on a few occasions, this term I will hold class (mainly lecture) in-person in Murray Hall 212 CAC. There are three ways you can enjoy these: (1) in-person in the classroom; (2) live streaming using Big Blue Button (BBB) on our Canvas site (click on the appropriate meeting listed); (3) recorded which will be posted in the evening under the BBB tab (again, click on the appropriate meeting). In-person attendance is not required. If attending in-person, masks are mandatory.</b> If you are live streaming, please enter with your microphones and video turned off. Note I will not be able to respond to chat, but you are welcome to set up your own chat and carry out a discussion among yourselves. Whichever way you choose to enjoy the lecture, you are also welcome to send our teaching assistant Fernando Letelier, <a href="mailto:fal49@economics.rutgers.edu">fal49 at economics.rutgers.edu</a>, or me &lt;<a href="mailto:gang@rutgers.edu">gang at rutgers.edu</a>&gt; questions/issues on the material. Please try to do so by then next lecture, so the issue can be addressed before we continue on.</p> |
| <p>Pandemic Matters</p>  | <p>These are fluid times with best practices rarely agreed upon and rapidly changing. The nature of an active pandemic requires that we, as a class, be prepared for sudden changes during the term while ensuring academic standards are maintained in a safe environment.</p>  |

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|   | <p><b>Masks must be properly worn during in-person class meetings.</b> Our classroom, Murray 212, is quite cozy, especially when approaching the legally allowed number of persons. I plan on keeping the window nearest me fully opened and encourage the opening of the other windows in the classroom. If you are not feeling well please do not come to the live class; instead, either live stream the class or watch the recording that will be posted under the BBB tab when you are well enough. If you cannot keep up with the work, please let me know</p>   |
| Teaching Assistant  | Fernando Letelier, <a href="mailto:fal49@economics.rutgers.edu">fal49 at economics.rutgers.edu</a>   |
| Office Hours :  | Office Hours: OH with our TA, Fernando Letelier, <a href="mailto:fal49@economics.rutgers.edu">fal49 at economics.rutgers.edu</a> , will be online from 11:00AM to noon on Mondays. If you are not able to make it at this time please email him and arrange a mutually convenient time. Please come to office hours having gone over the material and with, if possible, specific questions. You may also email Prof. Gang < <a href="mailto:gang@rutgers.edu">gang at rutgers.edu</a> > with questions and to set up online appointments. For further information on TA office hours go to: TA Office Hours Info in the Files folder. |
| Graded Elements of Course   | <p>1a. Exam 01a (aka Exercise 03) on population pyramids. Due by 4PM on Sunday, 25 Sept, via email to <a href="mailto:fal49@economics.rutgers.edu">fal49 at economics.rutgers.edu</a>.</p> <p>1b. Exam 01b on "Population: an Introduction to Demography". Monday 03 October on Canvas (about 30 multiple choice type questions)</p> <p>2. Exam 02. Monday 14 November on Canvas (about 30 multiple choice type questions)</p> <p>3. Exam 03 (Final Exam), Wednesday 21 December on Canvas (30-60 multiple choice type questions)</p>  |
| Important   | For this class, I post selected lecture slides (Canvas -> Files -> Key Slides) prior to the class and suggest you review them prior to the lectures, adding to them during the lectures. The posts are designed highlight the main points and will offer a good picture when combined with your class notes.   |
| Required Elements for Exams   | Unless otherwise stated (e.g., as for Exam 01b) relevant: (i) Lectures, (ii) Exercises, (iii) Questions in Practice Exam, (iv) Key Slides. Everything else is supportive. These are located in Canvas->Files. Note: Exercise 03 is the only exercise handed in.  |
| Please watch four class lectures and other (short) videos at the appropriate points in material. All are under the <b>Kaltura</b> | <p><b>FOUR CLASS LECTURES ONLINE</b> - I will be unable to be present for classes on Sept 26, Oct 05, Oct 10, &amp; Oct 17 (classes #06, #09, #10 &amp; #12, respectively). For continuity &amp; to help establish a strong foundation on the course material, I am recording and posting the appropriate lecture for each of these days. These four videos "count" as if I delivered them in-class in-person.</p> <p>Class 06: will be posted at appropriate time</p>   |

**Course Gallery tab on the left hand side of our Canvas home page.** They are listed here under the relevant course topics. The four class lectures are required; others are supportive, unless otherwise indicated.

Class 09: will be posted at appropriate time  
 Class 10: will be posted at appropriate time  
 Class 12: will be posted at appropriate time

**PART ONE: POPULATION ECONOMICS OVERVIEW** -The videos in Part One, Part Two and Extra Topics are not required. They are for your use and I think they will be helpful in developing and expanding your understanding of population economics.

**Introduction:**

Hans Rosling on global population growth (10 Minutes)

Hans Rosling's 200 Countries, 200 Years, 4 Minutes (5 Minutes)

Very recently I came across a series of 5 short (total time ~2 hours) lectures on demographic measurement that I found to be quite good.

The web page describing them and further materials is

[POPGROUP](#) The five video are in Kaltura Course Gallery 1.1-1.5

Demographic Concepts (Introduction, Fertility, Mortality, Migration, Population Projections).

**Mortality:**

Economics of Death (12 Minutes)

HansRosling\_2009\_480 HIV (11 Minutes)

**Fertility:**

HansRosling\_2007\_4Best Stats you've Ever Seen (21 Minutes)

**Migration:**

Economics of Immigration, Crash Course (12 Minutes)

Migrant Express (I have combined 7 separate short episodes into one, 44 Minutes)

**PART TWO: TOPICS** -The videos in Part One, Part Two and Extra Topics are not required. They are for your use and I think they will be helpful in developing and expanding your understanding of population economics.

**Data:**

India's Census History (14 Minutes)

History of Census Timeline 2011 (mainly British, 7 Minutes)

History of the Census and Census-Taking Around the World by Population Reference Bureau (3 minutes)

Brigadoon - Finding Bible Scene

**Female Labor Force Participation**

Stefania Albanesi | The Gender Unemployment Gap: Trend and Cycle (49 minutes)

Rohini Pande | Women and Work in India (1 hour 15 minutes)

Decoding Declining Labor Force Participation of Women in India

**Missing Women**

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|                              | <p>Siwan Anderson   2019 Fisher Lecture - Missing Women, (54 minutes)<br/> Kaivan Munshi   South Asian Studies Annual Indu Bhatt<br/> Lecture: Missing Girls (1 hour 35 minutes)<br/> Population Economics of Abortion<br/> Abortion and the Economics of Fertility<br/> Migration<br/> David Card   Labor Market Impacts of Immigration (1 hour 14 minutes)<br/> Harvest of Shame<br/> Disease, Epidemics and Pandemics<br/> Epidemics in Western History<br/> Economic Lessons from Past Pandemics</p> <p><b>EXTRA TOPICS</b><br/> Demographic Transition and Development (1 hour 32 minutes)<br/> Food Security in Less Developed Countries (10 minutes)</p> |
| <b>PART ONE</b>              | <b>POPULATION ECONOMICS OVERVIEW</b>  |
| Wednesday 07 Sept<br>Class 1 | <p><b>Objectives:</b> Introduction. The vocabulary.<br/> <b>Readings:</b> [01] Mark Mather, Linda A. Jacobsen, and Paola Scommegna, "Population: An Introduction to Demography," Population Bulletin 75, no. 1 (2021). a simple, straightforward introduction to the major concepts &amp; measures used in population studies. You should study this article very carefully -- line by line. <b>Also, see the "vocabulary" guide in Exercise 02.</b><br/> <b>Exercises:</b> 01, 02, 03<br/> <b>Reference:</b> Math Review <a href="http://www.mathcentre.ac.uk/">http://www.mathcentre.ac.uk/</a></p>   |
| Monday 12 Sept<br>Class 2    | <p><b>Objectives:</b> Introduction. The vocabulary. Overview of the Overview Part I<br/> <b>Readings:</b> [02-0] Alene Gelbard, Carl Haub, &amp; Mary M. Kent, "World Population Beyond Six Billion," Population Bulletin vol. 54, no. 1 (Washington, DC: Population Reference Bureau, March 1999).<br/> <b>Reference:</b> [04] PRB's Population Handbook, 6th Edition (Washington, DC: Population Reference Bureau, 2011)</p>  |
| Wednesday 14 Sept<br>Class 3 | <p><b>Objectives:</b> Introduction. The vocabulary. Overview of the Overview Part II</p>  |
| Monday 19 Sept<br>Class 4    | <p><b>Objectives:</b> The Demographic Transition<br/> <b>Readings:</b> [05-1] Demographic Transition: An Historical Sociological Perspective [05-2] Timothy W. Guinnane, "The Historical Fertility Transition: A Guide for Economists," Journal of Economic Literature, 2011; [50-3] Bloom; [50-5] Clements; [50-10] Thakoor [50-14] Young<br/> Continent</p>   |

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| <p>Wednesday 21 Sept<br/>Class 5</p>  | <p>Catch up, Push forward.</p>   |
| <p>Sunday 25 Sept<br/>Exercise 03 Due by<br/>4:00PM</p>   | <p><b>Exam 1a.</b> (also known as Exercise 03) on population pyramids is due by 4PM via email attachment to Fernando Letelier, fal49 at economics.rutgers.edu. Subject line should say: 477 Exer03 Your Name. See instructions in Canvas -&gt;Files -&gt;Exercises -&gt;Exercise03</p>   |
| <p>Monday 26 Sept<br/>Class 6<br/><b>No in-person lecture.</b><br/><b>Watch class 06 lecture in Kaltura Course Gallery.</b></p>   | <p><b>Objectives:</b> Mortality &amp; Malthus<br/><b>Readings:</b> [06] David Cutler, Angus Deaton &amp; Adriana Lleras-Muney. "The Determinants of Mortality." The Journal of Economic Perspectives, Vol. 20, No. 3 (Summer, 2006), pp. 97-120 [50-9] Looking Up</p>  |
| <p>Wednesday 28 Sept<br/>Class 7</p>  |  |
| <p>Monday 03 Oct<br/>Class 8<br/>Exam 01b</p>   | <p><b>Exam 1b.</b> Required material for the exam is very specific: Exercise 02 and Exercise 03. In other words this first exam expects you to thoroughly understand the population pyramid (Exercise 02) and the material in the article: <a href="#">Population: an Introdoction to Demography</a>, <a href="#">PRB Population Introduction to Demography - -Vocabulary</a>. The exam will be taken on Canvas. It is open everything except you must not consult with others. You can take the exam any time on Monday 03 October from 2:00PM until 11:55PM. Once you click "Take the Quiz," you will have 90 minutes or until 11:55 PM whichever is earlier to complete this assessment. It will be submitted after 90 minutes or at 11:55 PM regardless of whether you have answered all the questions. You can submit this assessment one time. Please see relevant web page on how to take exams. <b>NO LECTURE.</b></p> |
| <p>Wednesday 05 Oct<br/>Class 9<br/><b>No in-person lecture.</b><br/><b>Watch class 09 lecture in Kaltura Course Gallery.</b></p> | <p><b>Objectives:</b> Fertility<br/><b>Readings:</b> [07] Warren C. Robinson. "The Economic Theory of Fertility Over Three Decades." Population Studies, Vol. 51, No. 1 (Mar., 1997), pp. 63-74 [08] John Bongaarts. Demographic Consequences of Declining Fertility. Science 16 October 1998: Vol. 282. no. 5388, pp. 419 - 420. [50-12] Strange Case of Missing Baby [50-13] World Has Problem03</p>   |
| <p>Monday 10 Oct<br/>Class 10<br/><b>No in-person lecture.</b><br/><b>Watch class 10 lecture</b></p>                              |  |



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| <b>in Kaltura Course Gallery.</b>   |  |
| Wednesday 12 Oct<br>Class 11  |  |
| Monday 17 Oct<br>Class 12<br><b>No in-person lecture.<br/>Watch class 11 lecture<br/>in Kaltura Course<br/>Gallery.</b> | <p><b>Objectives:</b> Migration</p> <p><b>Readings:</b> [10] Some Short Notes on Migration, tutor2u [11] Does Germany Need More Migration?, HWWI</p> <p><b>Exercises:</b> 04</p> <p><b>Reference:</b>[12] The Economics of Immigration: Theory &amp; Policy by Örn B. Bodvarsson, Hendrik van den Berg - 2009</p>  |
| Wednesday 19 Oct<br>Class 13<br><a href="#">Exam 01 in 439</a>  |  |
| <b>PART TWO</b>   | <b>TOPICS</b>  |
| Monday 24 Oct<br>Class 14   | <p><b>Objectives:</b> Data in Population Economics</p> <p><b>Readings:</b> [13] History of US Census. [14] Mark Mather, Kerri L. Rivers, &amp; Linda A. Jacobsen, "The American Community Survey," Population Bulletin 60, no. 3 (Washington, DC: Population Reference Bureau, 2005). [15] U.S. Census 2010 [50-7] Honey I Lost the Kids</p>   |
| Wednesday 26 Oct<br>Class 15  |  |
| Monday 31 Oct<br>Class 16   | <p><b>Objectives:</b> Female Labor Force Participation, Impact of Women's LFP, Changes in Woman's LFP in India</p> <p><b>Readings:</b> [17] Saul D. Hoffman. "The changing impact of marriage &amp; children on women's labor force participation." Monthly Labor Review. February 2009, Vol. 132, No. 2 [34] Elizabeth Brainerd, "Uncounted Costs of World War II: The Effect of Changing Sex Ratios on Marriage &amp; Fertility of Russian Women," March 2008 [50-8] Kinoshita</p>           |
| Wednesday 02 Nov<br>Class 17  |  |
| Monday 07 Nov<br>Class 18   | <p><b>Objectives:</b> Missing Women, More Missing Women, Missing Girls</p> <p><b>Readings:</b> [21] Stephen J. Dubner &amp; Steven D. Levitt. "The Search for 100 Million Missing Women: An economics detective story." Slate. May 24, 2005. [22-0] Tina Rosenberg. "The Daughter Deficit." Times Magazine, Published: August 19, 2009 [22-1] Bride trafficking fuelled by India's gender imbalance _ Anu Anand _ Global development _ The Guardian [22-2] child_sex_ratio in India [xxxx]</p> |
| Wednesday 09 Nov<br>Class 19  |  |
| Monday 14 Nov<br>Class 20<br>Exam 02  | <p><b>Exam 02.</b> The exam will be taken on Canvas. It is open everything except you must not consult with others. You can take the exam 2:00PM until 11:55PM. Once you click "Take the Quiz," you will have 90 minutes or until 11:55 PM whichever is earlier to complete this assessment. It will be submitted after</p>  |

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|   | 90 minutes or at 11:55 PM regardless of whether you have answered all the questions. You can submit this assessment one time. Please see relevant web page on how to take exams. Exam 02 will most likely cover the material since the beginning of the term and at least through Migration, though I hope to include Data in Population Economics & Female Labor Force Participation. NO LECTURE.  |
| Wednesday 16 Nov<br>Class 21                                | <b>Objectives:</b> Economics of Abortion<br><b>Readings:</b><br><b>Video:</b> Abortion and the Economics of Fertility<br><b>Objectives:</b> Child Labor and Human Trafficking<br><b>Readings:</b> [30]Examine web page on child labor at International Labor Organization; explore links; [31-1] N Report on Human Trafficking in India   |
| Monday 21 Nov<br>Class 22<br><a href="#">Exam 02 in 439</a> | <b>Objectives:</b> Distributional Impacts of Immigrants<br><b>Readings:</b> [25] Immigration & the Labor Market: Theory, Evidence, & Policy By Will Somerville & Madeleine Sumption; [50-6 ]Economics Migration Systems   |
| Wednesday 23 Nov<br><b>No class.</b>                        | <b>Friday class schedule.</b>   |
| Thursday 24 Nov, Friday<br>25 Nov<br><b>No classes</b>      | <b>Thanksgiving Break</b>   |
| Monday 28 Nov<br>Class 23                                   | <b>Objectives:</b> Herds and Networks<br><b>Readings:</b> [26] Thomas Bauer, Ira N. Gang & Gil S. Epstein. What are Migration Networks? (revised version published as "Measuring ethnic linkages among migrants" in: International Journal of Manpower, 2009, 30 (1+2), 56-69)<br><b>Objectives:</b> Unauthorized Immigration<br><b>Readings:</b> [23] Jeffrey S. Passel & D'Vera Cohn. Trends in Unauthorized Immigration:Undocumented Inflow Now Trails Legal Inflow. Washington, DC: Pew Hispanic Center, October 2008 |
| Wed 30 Nov<br>Class 24                                      | <b>Objectives:</b> Immigrants & New Jersey<br><b>Readings:</b> [24] Ira N. Gang & Anne Morrison Piehl, Destination, New Jersey: How Immigrants Benefit the State Economy, Eagleton Institute, Rutgers University, December 2008   |
| Mon 05 Dec<br>Class 25                                      | <b>Objectives:</b> Remittances<br><b>Readings:</b> [27]Explore Migration Policy Institute webpages on remittances   |
| Wednesday 07 Dec  | <b>Objectives:</b> Disease, Epidemics and Pandemics   |

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| Class 26   | <p><b>Readings:</b> [18] Ian R.H. Rockett, "Population &amp; Health: An Introduction to Epidemiology," 2d ed., Population Bulletin, vol. 54, no. 4 (Washington, DC: Population Reference Bureau, December 1999). [19] "Plague &amp; Economics." Economist. December 23, 1999. [20] Elizabeth Brainerd, "The Economic Effects of the 1918 Influenza Epidemic," (with Mark Siegler, California State University, Sacramento), CEPR Discussion Paper 3791, November 2003.</p>  |
| Monday 12 Dec<br>Class 27  | <p><b>Objectives:</b> Disease, Epidemics and Pandemics</p>  |
| Wednesday 14 Dec<br>Class 28   | <p><b>Objectives:</b> Disease, Epidemics and Pandemics</p>  |
| <p><b>Wednesday 21<br/>December<br/>Exam 03<br/>(Final Exam)</b></p> | <p><b>Final Exam.</b> Comprehensive. It will cover the entire semester's work. Once you begin you have 3 hours to complete it. The exam will be taken on Canvas. It is open everything except you must not consult with others. The exam is available for you to take on our officially scheduled exam day Wednesday 21 December, 4:00PM until 11:55PM. Once you click "Take the Quiz," you will have three (3) hours or until 11:55 PM whichever is earlier to complete this assessment. It will be submitted after three (3) hours or at 11:55 PM regardless of whether you have answered all the questions. You can submit this assessment one time. Please see relevant web page on how to take exams.</p>  |
| <p>Additional Material if you are interested</p>                     | <p><a href="#">International Migration Outlook 2021</a><br/> <a href="#">An economist's view on migration &amp; refugees</a><br/> <a href="#">Responding to crises: What can we do? What's next?</a></p>  |
| <p>Topics if Time Allows</p>   | <p><b>Objectives:</b> Caste, Discrimination &amp; Affirmative Action<br/> <b>Readings:</b> [32] Economic &amp; Political Weekly June 17, 2006<br/> <b>Objectives:</b> Refugees <b>Readings:</b> [50-1] When Migrants Spoil the Joke<br/> <b>Objectives:</b> Marriage &amp; Divorce <b>Readings:</b> [33] Explore data available through US Census links on Marriage &amp; Divorce Statistics<br/> <b>Objectives:</b> Empowering Women in Agriculture <b>Watch:</b> video on Ralitza Dimova's web page <a href="http://www.ralitzadimova.net/">http://www.ralitzadimova.net/</a><br/> <b>Objectives:</b> Health &amp; Population <b>Listen to:</b> Real Costs of Gun Violence · Philip J. Cook, Duke University <b>Readings:</b>[35-0] Angus Deaton Global Patterns of Income &amp; Health<br/> <b>Objectives:</b> Disease &amp; Development <b>Readings:</b> [35-1] [35-2] [35-3]<br/> <b>Objectives:</b> Informal Economy <b>Readings:</b> [28] [29]</p> |