Economic Growth, Econ 4794

Fall 2023 Course Outline

MWF 12:20-1:10 p.m. in MUEN E417

Professor:C. H. ShiueOffice:Economics 206BOffice Hours:MW 1:30-2:30 p.m. and by appt.Email:shiue@colorado.edu

Objectives of the course

The aim of this course is to synthesize recent ideas and approaches in economic growth and to survey leading explanations for the causes of growth. This course is organized into three substantive sections. The first examines the degree to which income variations across countries can be attributed to variations in factor accumulation. In the second part of the course, we study the role of productivity and technology in explaining income differences. The third section explores the deeper or fundamental characteristics of countries that may underlie differences in factor accumulation and productivity among countries. We will supplement textbook material with articles about the economic history of country experiences and contemporary topics of interest.

Prerequisites

Econ 1088 Math Tools for Economists II or equivalent.

Econ 3070 Intermediate Micro or Econ 3080 Intermediate Macro.

Where to Find Course Materials. Electronic materials will be posted on Canvas in the Syllabus menu tab and Modules. Class notes are linked in the Canvas in the Class Notebook menu tab.

Communication Make sure your university email account is set up. Occasionally, communication about classes and group projects will be through email. In addition, turn on Canvas notifications so that you will receive all Canvas announcements.

Textbook

David N. Weil, <u>Economic Growth</u>, 3rd edition.

Course Requirements

This course emphasizes quantitative reasoning in application to questions of economic growth. We will focus on understanding economic modeling, the analysis of data, and applications to global events. Therefore, the format of classes will consist of lectures, in-class problem solving, and student presentation of articles and in-class discussion.

Your course grade will have the following components:

Review Assignments (5% x 3 Review Assignments)	15 %
2 Quizzes (15% x 2 Quizzes)	30 %
Student Presentation of an Article on the Syllabus	10 %
Country Analysis Paper	25 %
Final Exam	20 %

In summary, proctored exams will count for 50% of your grade and the other 50% will consist of a variety of projects and assignments.

Attendance If you miss a class, you are strongly encouraged to make an appointment with me to discuss specific questions about the material after you have obtained notes. I will take attendance at the beginning of class. Everyone will get 4 excused absences to cover minor illnesses and personal emergencies. Beyond 4 classes, each recorded absence will negatively impact your final grade by 1 percentage point.

Review Assignments Review assignments are graded multiple-choice and short response questions that provide a review of concepts we have covered and are meant to help you prepare for an upcoming quiz or exam. Review Assignments are made available before an upcoming quiz or exam and you will have a week to complete the assignment. There will be 3 such assignments, to be completed at home and submitted in the Canvas. I will replace your lowest Assignment grade with your Final Exam grade if the latter is higher than the former.

Student Presentation of an Article on the Syllabus Every student will be responsible for a presentation of one article on the syllabus, plus a discussion. Most presentations will be by a team of 2 students. You will be informed of your assigned article at least one week in advance of your presentation. The discussion portion will be based on each presenter crafting a question directed to the class to initiate a discussion about the article. The questions can be open-ended and can relate to anything mentioned in the paper that you think the class might be interested to discuss further, whether in the context of the paper or in the context of your presentation slides in PDF or Powerpoint format by 9 a.m. on the morning of your presentation. This will ensure that I can set up your presentation on my laptop prior to the start of class. Students who are not presenting are expected to participate in the discussion.

Country Analysis Paper This is a longer project that allows you to explore the economic growth of countries that interest you within the space of a 10-12 page paper. You may work with 1-2 other students in a group. Your paper will compare the growth performance of a country of your choice with the performance of any two other countries. Your goal is to assess the causal factors behind the

performance of the country in question. For example, you may compare the growth performance of Columbia over the years 1970 to 2016 with that of two other countries in Latin America. In preparation for the project, you will need to do the following: 1) before **October 2**, research 3 countries that would be suitable for the project, 2) by **November 10**, write a 5-page preliminary draft. I will be meeting with students the following classes to discuss the draft and provide feedback. The paper is due on or before **12 NOON Wednesday, December 6.** Students will be asked to give a brief and informal verbal summary of their findings to the class on the due date. Additional details about the project plus the scoring rubric will be given within the first weeks of the semester.

Quizzes There are two quizzes, which will be held in class. The quizzes are a combination of shortanswer multiple choice and longer-answer questions.

If you have a conflict on the date of a scheduled quiz, you may request to take the quiz on a different date *before* the class takes the quiz. There are no makeup dates for quizzes after it has been taken by the class. If you miss a quiz due to a valid reason, your grade will be reweighed by the final exam. All students must take the final exam to pass the course.

Final Exam The Final Exam will be comprehensive, with a larger share of questions from the later part of the course. All students must take the final exam to pass the course. A total of 75 minutes has been allotted for the final exam, which will take place on **Saturday, December 16, 4:30-5:45 pm.**

Policy on Late Work and Missed Quizzes Course policy on work turned in after posted deadlines is as follows. Late work will see a deduction of 15% per day late, for up to three days. E.g., an assignment that would have received 100% had it been handed in on time will receive instead an 85% if was handed in at any time in the 24-hour period after the deadline, and a 70% if it is late by another 48-hours. After three days, the maximum achievable score is a 55%. There are no extra credit provisions.

Policy on Electronic Devices You may use electronic devices during class to take notes or support learning objectives for this class. Electronic devices should not be used in a way that is distracting to anyone in the class (texting, social media, etc.), or on non-class related tasks.

Institutional Policies: Classroom Behavior

Students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote, or online. Failure to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation, or political philosophy.

For more information, see the <u>classroom behavior policy</u>, the <u>Student Code of Conduct</u>, and the <u>Office</u> <u>of Institutional Equity and Compliance</u>.

Requirements for Infectious Diseases

Members of the CU Boulder community and visitors to campus must follow university, department, and building health and safety requirements and all public health orders to reduce the risk of spreading infectious diseases.

The CU Boulder campus is currently mask optional. However, if masks are again required in classrooms, students who fail to adhere to masking requirements will be asked to leave class. Students who do not leave class when asked or who refuse to comply with these requirements will be referred to Student Conduct & Conflict Resolution. Students who require accommodation because a disability prevents them from fulfilling safety measures related to infectious disease will be asked to follow the steps in the "Accommodation for Disabilities" statement on this syllabus.

For those who feel ill and think you might have COVID-19 or if you have tested positive for COVID-19, please stay home and follow the <u>further guidance of the Public Health Office</u>. For those who have been in close contact with someone who has COVID-19 but do not have any symptoms and have not tested positive for COVID-19, you do not need to stay home.

Accommodation for Disabilities, Temporary Medical Conditions, and Medical Isolation

<u>Disability Services</u> determines accommodations based on documented disabilities in the academic environment. If you qualify for accommodations because of a disability, submit your accommodation letter from Disability Services to your faculty member in a timely manner so your needs can be addressed. Contact Disability Services at 303-492-8671 or <u>dsinfo@colorado.edu</u> for further assistance.

If you have a temporary medical condition or required medical isolation for which you require accommodation, notify the instructor immediately. Also see <u>Temporary Medical Conditions</u> on the Disability Services website.

Preferred Student Names and Pronouns

CU Boulder recognizes that students' legal information doesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name.

Honor Code

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the <u>Honor Code</u>. Violations of the Honor Code may include but are not limited to: plagiarism (including use of paper writing services or technology [such as essay bots]), cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty.

All incidents of academic misconduct will be reported to Student Conduct & Conflict Resolution: honor@colorado.edu, 303-492-5550. Students found responsible for violating the <u>Honor Code</u> will be assigned resolution outcomes from the Student Conduct & Conflict Resolution as well as be subject to academic sanctions from the faculty member. Visit <u>Honor Code</u> for more information on the academic integrity policy.

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation

CU Boulder is committed to fostering an inclusive and welcoming learning, working, and living environment. University policy prohibits <u>protected-class</u> discrimination and harassment, sexual misconduct (harassment, exploitation, and assault), intimate partner violence (dating or domestic violence), stalking, and related retaliation by or against members of our community on- and off-campus. These behaviors harm individuals and our community. The Office of Institutional Equity and Compliance (OIEC) addresses these concerns, and individuals who believe they have been subjected to misconduct can contact OIEC at 303-492-2127 or email <u>cureport@colorado.edu</u>. Information about university policies, <u>reporting options</u>, and support resources can be found on the <u>OIEC website</u>.

Please know that faculty and graduate instructors have a responsibility to inform OIEC when they are made aware of incidents related to these policies regardless of when or where something occurred. This is to ensure that individuals impacted receive an outreach from OIEC about their options for addressing a concern and the support resources available. To learn more about reporting and support resources for a variety of issues, visit <u>Don't Ignore It</u>.

Religious Holidays

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, students should notify me as soon as possible about conflicts due to religious observance.

See the <u>campus policy regarding religious observances</u> for full details.

Topic Outline and Readings

The schedule below is an outline of the topics covered this semester and is subject to change based on class progress. You can access the articles by going to the Syllabus link on the lefthand side menu in Canvas and clicking on the links provided. Additional supplementary material will be made available on Canvas under Modules.

I. Introduction and Preliminaries

Chapter 1 and 2: Differences in the level and rate of income growth among countries. Theory: Working with growth rates; review of the logarithm function; inequality.

Reading:

- Ray, Development *Economics*, Ch 2.
- Lant Pritchett. 1997. "Divergence, Big Time," *Journal of Economic Perspectives*, 11(3).

Student Presentation A: Alvaredo, Facundo, Anthony B. Atkinson, Thomas Piketty, and Emmanuel Saez. 2013. "The Top 1 Percent in International and Historical Perspective." *Journal of Economic Perspectives*, 27 (3): 3-20.

II. Factor Accumulation

Chapter 3: Capital's Role in Production Theory: Harrod-Domar Model; the Solow Model.

Reading:

• Ray, pp. 47-57.

Chapter 4: The Role of Population in Economic Growth (skip appendix). Theory: The Malthusian Model; Fertility Transition.

- Tiloka de Silva and Silvana Tenreyro. 2017. "Population Control Policies and Fertility Convergence," *Journal of Economic Perspectives*, 31(4): 205-228.
- Karen N. Eggleston and Victor R. Fuchs. 2012. "The New Demographic Transition: Most Gains in Life Expectancy Now Realized Late in Life," *JEP*, 26(3).

Chapter 6: The Effect of Human Capital on Growth

• Fernandez, José, Mónica García-Pérez, and Sandra Orozco-Aleman. 2023. "Unraveling the Hispanic Health Paradox." *Journal of Economic Perspectives*, 37 (1): 145-68.

Theory: Returns to Education. Reading:

Student Presentation B: Deming, David J. 2022. "Four Facts about Human Capital." *Journal of Economic Perspectives*, 36 (3): 75-102.

Student Presentation C: Couture, Victor, and Jessie Handbury. 2023. "Neighborhood Change, Gentrification, and the Urbanization of College Graduates." *JEP*, 37 (2): 29-52.

III. Productivity

Chapter 7: How much does productivity growth differ among countries? Theory: Growth Accounting, Total Factor Productivity Reading:

Student Presentation D: Nicholas Bloom and John Van Reenen. 2010. "Why Do Management Practices Differ Across Firms and Countries?" *Journal of Economic Perspectives*, 24(1).

Chapters 8 and 9: Can technological gaps explain differences in productivity? Theory: Model of Technological Change Reading:

Student Presentation E: Kerr, William R., and Frederic Robert-Nicoud. 2020. "Tech Clusters." *Journal of Economic Perspectives*, 34 (3): 50-76.

Student Presentation F: Levinson, Arik. 2023. "Are Developed Countries Outsourcing Pollution?" *Journal of Economic Perspectives*, 37 (3): 87-110

Chapter 10: How much of the productivity differences across countries come from inefficiency? Theory: Decomposing productivity into technology and efficiency Reading:

Student Presentation G: Sergei Guriev, Daniel Treisman. 2019. "Informational Autocrats." *Journal of Economic Perspectives*, 33(4).

Student Presentation H: Corrado, Carol, Jonathan Haskel, Cecilia Jona-Lasinio, and Massimiliano Iommi. 2022. "Intangible Capital and Modern Economies." *Journal of Economic Perspectives*, 36 (3): 3-28.

Postscript Section IV. Historical (Fundamental) Factors of Growth

Chapter 15: Historical Influences Explaining Differences in Economic Performance Today

• Anthony Venebles. 2016. "Using Natural Resources for Development, Why Has it Proven So Difficult?" *Journal of Economic Perspectives*, 30(1).

Cultural Differences and Growth, Weil, Ch. 14.:

• Guiso, Luigi, Paola Sapienza, and Luigi Zingales. 2006. "Does Culture Affect Economic Outcomes?" Journal of Economic Perspectives, 20 (2): 23-48.