



Course and Examination Fact Sheet: Autumn Semester 2023

5,260: Climate and Income Differences

ECTS credits: 6

Overview examination/s

(binding regulations see below)

decentral - Written work, Digital, Individual work individual grade (30%)

Examination time: Term time

central - Analog written examination, Analog, Individual work individual grade (70%, 120 Min.)

Examination time: Lecture-free period

Attached courses

Timetable -- Language -- Lecturer

[5,260,1.00 Climate and Income Differences](#) -- English -- [Keuschnigg Christian](#)

Course information

Course prerequisites

Basic macroeconomic knowledge (material taught in the mandatory undergraduate courses), working knowledge of mathematics and empirical methods for economists.

Learning objectives

Goal of the course: This course seeks to acquaint the student with long-run macroeconomic facts and the empirical growth literature analyzing and comparing growth outcomes over time in given countries and across countries. In the second part of the course we study the interaction between the economy and the climate, i.e., the integrated assessment framework.

Learning objectives: Knowledge of the main empirical facts about cross-country income differences and whether and how neoclassical macroeconomic theory can quantitatively explain them. Understanding of how the interrelation of climate and economic activity can be modeled and studied and used to guide policy.

Course content

Can standard macroeconomic theory predict the large income differences observed across countries? We will study the scale of differences in average GDP per capita around the world and to what extent they can be explained by differences in accumulated factors (human and physical capital). In a second part of the course we study the interaction between the economy and the climate. How does the level of economic activity determine the level of CO₂ emission and how does the CO₂ concentration in the atmosphere via damages from global warming affect the economy. We analyze the integrated assessment model and how it can be used to guide policy.

Course structure and indications of the learning and teaching design

Lectures combined with exercises. The course material will be discussed during the weekly lectures. In addition, students are expected to solve problems as a homework and these exercises are then discussed in class. This part may also involve short student presentations, i.e., presenting the solution to a particular problem in the lecture room.

Course literature

Slides and problem sets on Canvas.

Additional reading:



- Acemoglu D. (2009) Introduction to Modern Economic Growth, Princeton University Press, Princeton NJ.
- Aghion P. and P. Howitt (2009) The Economics of Growth, MIT Press, Cambridge, MA.

Additional course information

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Examination information

Examination sub part/s

1. Examination sub part (1/2)

Examination modalities

Examination type	Written work
Responsible for organisation	decentral
Examination form	Written work
Examination mode	Digital
Time of examination	Term time
Examination execution	Asynchronous
Examination location	Off Campus
Grading type	Individual work individual grade
Weighting	30%
Duration	--

Examination languages

Question language: English
Answer language: English

Remark

Solving problem sets

Examination-aid rule

Free aids provision

Basically, students are free to choose aids. Any restrictions are defined by the faculty members in charge of the examination under supplementary aids.

Supplementary aids

Students may use all learning materials to solve problem sets at home.

2. Examination sub part (2/2)

Examination modalities

Examination type	Analog written examination
Responsible for organisation	central
Examination form	Written exam
Examination mode	Analog
Time of examination	Lecture-free period
Examination execution	Synchronous
Examination location	On Campus
Grading type	Individual work individual grade
Weighting	70%



Duration 120 Min.

Examination languages

Question language: English

Answer language: English

Remark

Written exam

Examination-aid rule

Closed Book

The use of aids is prohibited as a matter of principle, with the exception of pocket calculator models of the Texas Instruments TI-30 series and, in case of non-language exams, bilingual dictionaries without any handwritten notes. Any other aids that are admissible must be explicitly listed by faculty members in the paragraph entitled "Supplementary aids" of the course and examination fact sheet; this list is exhaustive.

Procuring any aids, as well as ensuring their working order, is the exclusive responsibility of students.

Supplementary aids

Written exam is closed book. Pocket calculator allowed, if needed at all.

Examination content

Material covered in class, i.e., lecture notes and problem sets. Knowledge of empirical facts as discussed during the lectures. Theoretical tool covered by the lecture notes and applied in the problem sets.

Examination relevant literature

Chapters of the textbooks that are covered in the lecture notes and all articles discussed in the lecture notes or in the problem sets.

All the relevant course material covered in the exam will be made available online on Canvas. All necessary material will be available on Canvas one week prior to the exam at the latest.



Please note

Please note that only this fact sheet and the examination schedule published at the time of bidding are binding and takes precedence over other information, such as information on StudyNet (Canvas), on lecturers' websites and information in lectures etc.

Any references and links to third-party content within the fact sheet are only of a supplementary, informative nature and lie outside the area of responsibility of the University of St.Gallen.

Documents and materials are only relevant for central examinations if they are available by the end of the lecture period (CW51) at the latest. In the case of centrally organised mid-term examinations, the documents and materials up to CW 42 are relevant for testing.

Binding nature of the fact sheets:

- Course information as well as examination date (organised centrally/decentrally) and form of examination: from bidding start in CW 34 (Thursday, 24 August 2023);
- Examination information (supplementary aids, examination contents, examination literature) for decentralised examinations: in CW 42 (Monday, 16 October 2023);
- Examination information (supplementary aids, examination contents, examination literature) for centrally organised mid-term examinations: in CW 45 (Monday, 06 November 2023);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised examinations: two weeks before the end of the de-registration period in CW 45 (Monday, 06 November 2023).