

#### Economic Growth and Cycles\_20 (F. Económicas)

Guía docente 2023-24

## **PRESENTATION**

Brief description of the course: This course expands the knowledge acquired in the past (through Principles of Macroeconomics and Macroeconomics: Theory and Policy), presenting several analytical models. There are both models of economic growth, such as the extended Solow and endogenous growth models, and models about the behavior of consumers and firms that allow us to understand the business cycles and the policy responses to them. As it is based on models, the course is technical.

- Type of degree: Economics
- Module/Subject matter: Economic theory/1.2 (Macroeconomics)
- **ECTS**: 6
- Year, semester: 2nd year, 2nd semester
- Type: Compulsory
- Professor in charge: Tommaso Trani
- Language: English
- Time, venue: Monday, 8:00-10:00 (Room 12, Ed. Amigos); Tuesday, 10:00-12:00 (Room 11, Ed. Amigos)

# **COMPETENCES**

- CG1: To be familiar with different areas of the theory and/or application of economic analysis.
- CG7: To reach conclusions of a regulatory nature that are relevant to economic policy based on positive knowledge.
- SC1: To be familiar with the fundamental concepts and methods of economic theory.
- SC3: To use the concepts, theories and models of economic theory to assess the reality of the economic context.
- SC10: To apply the tools of economic theory to the analysis and discussion of real situations.

## **PROGRAM**

Economic growth

- A. Solow-Swan model extensions
- Technological progress
- Growth policies: Saving, institutions, human capital
- Solow model with human capital: Mankiw, Romer, Weil
- Other extensions (environment, inequality...)
- B. Endogenous growth
- The AK model
- Two sector model: Steady state and transitional dynamics
- Knowledge and R&D

<sup>\*</sup>Students with special education needs: please contact the professor of the course.



# Business cycles

#### A. Introductory part

- Cycles and growth
- Expectations: Financial markets
- Expectations: Consumption and investment
- Shocks and transmission channels

## B. Supply-side business cycles

- Technology shocks measurement: Solow residual
- Real Business Cycles

#### C. Demand-side business cycles

- Consumption, investment and public spending
- Stabilization
- Neokeynesian model

# **EDUCATIONAL ACTIVITIES**

As for any course attributing 6 ECTS credits, students' workload is expected to be of about 150 hours. A tentative distribution of this preparation time is as follows:

- a. Lectures, including practical classes = 58 hours
- **b.** Personal and team work = 86 hours
- c. Assessment = 6 hours.

The ADI's website of the course contains class materials for both the theoretical and practical content of the course. All the material will be posted in advance for consultation even ahead of the lectures, but further questions/applications may be considered directly during the lectures.

Students will receive further indications (relationship program-bibliography, tentative class schedule, etc.) through the intranet. Possible adjustments to the program will be announced during the lectures.

Final exam: time and venue in accordance with the School's timetable of exams.

## **ASSESSMENT**

#### **GRADING IN MAY**

Problem sets: 20%

Midterm exam: 30%



Final exam: 50%

#### **GRADING IN JUNE**

Problem sets: 16%

Midterm exam: 24%

Final exam: 60%

#### **DETAILS**

Types of questions: multiple-choice questions, or the like, and problems. The exact structure of the exams will be announced during the course.

The final exam is comprehensive. *In this case, a minimum of 4/10 is required.* 

Students with special education needs: please contact the professor of the course.

#### HONESTY IS THE BEST POLICY

(Ethics Committee Provisions Against Plagiarism and Copying)

We value honesty. Without it, there can be no trust or any meaningful social relations. Therefore, the School expects honesty and fairness from all of its members: professors, non-academic staff, and students.

Dishonest behaviors will be sanctioned in accordance with the <u>University Norms on Student Academic Discipline of August 2015</u>, and include lying, cheating in exams, and plagiarism in written work. We take such violations seriously. Depending on their gravity, these offences will be dealt with by the Professor in charge of the subject, by the Dean of Students, and in very severe cases, by the Vice President for Student Affairs.

#### Sanctions include:

- formal warnings
- prohibition from entering University premises for a given period
- loss of admission rights to exams
- loss of scholarships
- a failing grade for the piece of work or the whole course.

## **OFFICE HOURS**

Tommaso Trani (ttrani@unav.es)

- Office 2240, Edificio Amigos. Floor: 2, "hilera".
- Hours: Tuesday, 12:00-13:00 / Wednesday, 9:30-10:30. You should inform me by email that you plan to attend these office hours, at least, 24h in advance; otherwise, I might not be in my office. I will not reply to this kind of notifications but just take note. Please allow no less than 24h for an answer to any other email.



# **BIBLIOGRAPHY AND RESOURCES**

Part I: Economic Growth

Jones, Charles I. Introduction to Economic Growth. Find it in the library

Aghion, Phillipe and Howitt, Peter. The Economics of Growth. Find it in the library

Part II: Business Cycles

Williamson, Stephen. Macroeconomics. Find it in the library.