# COURSE RECORD

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|  | Code | ECON 302 |
|  | Name | **Econometrics II** |
|  | Hour per week | 3+0 (Theory + Practice) |
|  | Credit | 3 |
|  | ECTS | 5 |
|  | Level/Year | Undergraduate / 3 |
|  | Semester | Spring |
|  | Type | Compulsory |
|  | Prerequisites | ECON 206 - Statistics II |
|  | Coordinator(s) | Dr. Eda Ustaoglu |
|  | Description | Statistics and econometrics knowledge that is necessary to understand and conduct econometric analysis is developed throughout the course at advanced undergraduate level. This is the second course in the undergraduate econometrics sequence. Students are assumed to have known regression analysis before taking this class. The course will focus on time-series and panel data analysis. It will cover both theory and applications, and the approach to applications will be built on econometric theory. |
|  | Objectives | Introducing time-series and panel data model as well as the issue of heteroscedasticity.  Showing how to analyze and test economic theory with empirical data. |
|  | Learning Outcomes | *By the end of the course:*  LO1. Test economic hypotheses and check significance properties.  LO2. Construct a novel time-series and/or panel data econometric model and test overall performance of the model.  LO3. Understand strengths and limitations of the methods covered in the course LO4. Interpretation of the model outcomes |
|  | Additional Info | - |
|  | Requirements | - |
|  | Teaching Methodology | Learners will be provided with as much opportunities of hands-on practice as possible with the aim of striking a balance between learner-centeredness and sufficient guidance. Various forms of interaction (i.e. pair work and group work) will also be encouraged to cater for learners with different learning styles. Additionally, individuals will be expected to produce both in-class writings and homework assignments in addition to the reading tasks, which will encourage them to reflect and think critically. Technology will also be incorporated into the classroom procedures in order to create a better  learning environment. |
|  | Reading List | 1. Wooldridge. J.M. (2020). Introductory Econometrics: A Modern Approach.   7th Edition. Cengage Learning. ISBN-13: 978-1-3375-5886-0   1. Gujarati, D. N. (2003) Basic Econometrics. McGraw-Hill, New York |

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| Ethical Rules and Course Policy | *Late Submissions:* All of the assignments are due at the scheduled dates and times. Please mark your calendar for all due dates and follow the announcements about the assignments. Late assignments receive a 10% deduction for each day they are late. After three days, assignments will not be accepted.  *Communication:* Please check your AGU e-mail for the announcements. All of the messages and announcements will be sent via CANVAS and to your AGÜ e-mail addresses. Therefore, it is the responsibility of every student to read  his/her official university email address and to check the CANVAS regularly on daily basis. |

*Attendance Policy:* Students are expected to attend all asynchronous / synchronous components of the lectures. Student absences in excess of 3 weeks (4 or more) of synchronous times will result in automatic failure in the course. It is your responsibility to be present in class on time.

Students with medical reports need to submit the paperwork to their own deanship of faculty in 5 days following the last day of the sick leave. Absence due to medical reasons cannot exceed 2 weeks.

It is the responsibility of each student to keep track of how they are doing in class participation by checking with the instructor during the semester.

*Academic Integrity:* Students are obliged to refrain from acts that they know or, under the circumstances, have reason to believe, will impair the integrity of the university or others. Violations of academic integrity include, but are not limited to, cheating, plagiarism, unauthorized multiple submissions or copying and using somebody else’s paper/assignment.

Any of these violations will be investigated by the discipline committee and may cause expulsion of the student from the University.

*Ethical Rules;*

* English should be used at all times to communicate with one another during the a / synchronous hours.
* Please, respect the allotted times provided for breaks.
* Distractive tools such as cell phones must be turned off and put away during the synchronous hours.
* In synchronous hours, computers should not be used to surf on the web or conducting personal business.
* Personal business should be done outside of the synchronous hours on your own time, where it does not interfere with the learning environment of your fellow students.
* Please be prepared, having read, written, watched and studied the assigned lessons, articles, passages, or videos before the course sessions.
* Please be ready to submit assignments on time
* And most importantly please prepare to work cooperatively with other students.

For the AGU Make-up policy, please refer to the website of the university.

*Cheating & Plagiarism:* You are responsible for knowing the University policies on cheating and plagiarism. Not giving credit to a person for their intellectual work and passing it off as your own is stealing.

Specifically:

* Copying or allowing someone to copy your work on an exam, homework, or in class assignment is cheating.
* Cutting and pasting material from the web or any other electronic source is plagiarism.
* Copying and turning in the same assignment as someone else, from this class or from another class, is cheating. Unless explicitly told otherwise, you can discuss and problem- solve on homework together but the final product has to be your own – not just your own handwriting but your own way of explaining and organizing your ideas.
* Making superficial changes (minor additions, deletions, word changes, tense changes, etc) to material obtained from another person, the web, a book, magazine, song, etc. and not citing the work, is plagiarism. The idea is the intellectual property, not the specific format in which it appears (e.g., you wouldn’t reword Einstein’s theory of relativity and imply that relativity was

your own idea, would you?)

* If you find material and it is exactly what you are trying to say, or you want to discuss someone’s idea, give the person credit and cite it appropriately. Don’t overuse citations and quotes: instructors want to know how you think and reason, not how someone else does.
* If you have any questions or concerns about whether your behavior could be interpreted as plagiarism, please ask the assistants or instructors before you submit the work.

*Flexibility:* A tentative schedule for the entire semester is included in this syllabus. Although much thought and planning were put into the course schedule included in the syllabus, the schedule is tentative and subject to change as necessary to adapt to the specific needs of the class. Occasional departures from the schedule, such as additional readings, assignments, and activities, may be announced in class or via CANVAS during the semester.

Therefore, it is each student’s responsibility to be in class, on time, and pay attention in order to keep up-to-date with whatever changes are made in the schedule.

For a detailed description of AGU policies, please refer to the website of the

university.

# ASSESSMENT

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|  | **Evaluation Criteria** | **Weight** (%) |
|  | Attendance | 20% |
|  | Homework | 20% |
|  | Midterm Exam | 25% |
|  | Final Exam | 35% |
|  | Total | 100% |

For a detailed description of grading policy and scale, please refer to regulations published on the AGU – OIDB website.

# COURSE LOAD

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| --- | --- | --- | --- |
| **Activity** | **Duration**  (hour) | **Quantity** | **Work Load**  (hour) |
| In class activities | 2 | 14 | 28 |
| Assignment | 5 | 5 | 25 |
| Research (web, library) | 3 | 14 | 42 |
| Required Readings | 3 | 14 | 42 |
|  |  | General Sum | 137 |

**ECTS: 5** (Workload/25-30)

**WEEKLY SCHEDULE**

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| --- | --- | --- | --- |
| **W** | **Topic** | **Activities** | **Learning Outcomes** |
| **1** | Introduction to the course  **(Ch#1)** | Lecture & Discussion | LO1 |
| **2** | Introduction to the course  **(Ch#1)** | Lecture&Discussion | LO1 |
| **3** | Basic regression analysis with time series data  **(Ch#10)** | Lecture & Exercises | LO1, LO2  LO3, LO4 |
| **4** | Basic regression analysis with time series data  **(Ch#10)** | Lecture & Exercises | LO1, LO2  LO3, LO4 |
| **5** | Basic regression analysis with time series data  **(Ch#10)** | Lecture & Exercises | LO1, LO2  LO3, LO4 |
| **6** | Serial correlation and heteroscedasticity in time series regressions  **(Ch#12)** | Lecture & Exercises | LO1, LO2  LO3, LO4 |
| **7** | LFW | TBD |  |
| **8** | Review and Mid Term Exam | Mid-Term Exam | LO1, LO2 |
| **9** | Serial correlation and heteroscedasticity in time series regressions  **(Ch#12)** | Lecture, Discussion & Exercises | LO1, LO2  LO3, LO4 |
| **10** | Pooling cross sections across time: Simple panel data methods  **(Ch#13)** | Lecture, Discussion & Exercises | LO1, LO2  LO3, LO4 |
| **11** | Pooling cross sections across time: Simple panel data methods  **(Ch#13)** | Lecture, Discussion & Exercises | LO1, LO2  LO3, LO4 |
| **12** | Pooling cross sections across time: Simple panel data methods  **(Ch#13)** | Lecture, Discussion & Exercises | LO1, LO2  LO3, LO4 |
| **13** | Pooling cross sections across time: Simple panel data methods  **(Ch#13)** | Lecture, Discussion & Exercises | LO1, LO2  LO3, LO4 |
| **14** | Pooling cross sections across time: Simple panel data methods  **(Ch#13)** | Lecture, Discussion & Exercises | LO1, LO2  LO3, LO4 |