UNIVERSITY OF AMSTERDAM
Economics & Business

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COURSE DESCRIPTIONS

A course description is a self-made summary of courses in your Bachelor's, that are relevant for the programme you are applying for. You don't need to generate this information yourself. Simply copy and paste the relevant details from the course descriptions provided by your professors.

To determine which courses will qualify you for admission to the Master's program you are applying for, please review the entry requirements listed on the webpage. Please include these courses in your self-made course descriptions.

Please include per course:
• topics covered
• number of credits
• method(s) of examination and
• the compulsory literature list

EXAMPLES OF COURSE DESCRIPTIONS

Course title: Corporate Entrepreneurship
University where course was taken: University of Amsterdam
credits: 6 EC

Topics covered

How do corporations like Google, IKEA and Apple continue to respond to their external environment and remain creative as they grow older and larger? Keeping entrepreneurism at the core of their organisation is a simple answer with complex theoretical underpinnings which we will explore in this class.

The course provides a set of definitions, a conceptual framework, and a repertoire of case studies and academic articles to help students understand what corporate entrepreneurship is and how it benefits established firms. The content is designed to get participants acquainted with the different facets of corporate entrepreneurship (e.g., drivers of corporate entrepreneurship and types of corporate venturing) and how these impact an organisation's competitive advantage.

The course will expose students to different theories and practical cases about some of the world's most entrepreneurial organisations, leading them to understand how corporate entrepreneurship can be key to successful strategies for established businesses.

Methods of examination
The final grade consists of:

- a two-hour end-of-term examination (60%) with multiple-choice questions and essay questions. The grade for the end-of-term exam must be at least 5.5 to pass the course;
- Group assignments consisting of a presentation and written assignments (40%). The results of the group assignment will not be disregarded in case of a resit and will remain valid in the academic year in which the course was taken;

Compulsory literature list
The course uses a core textbook and academic articles. The textbook used will be:

- Kuratko, D., Morris, M.H., and Covin, Jeffrey. (2011). *Corporate Innovation & Entrepreneurship, International Edition*, 3rd Edition, ISBN: 9781111526917.
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The academic articles will be available from online resources through the library. The seminars will be based on Harvard Business School cases and the link will be made available on Canvas prior to the course.

Information on additional course articles and slides will be available on Canvas.

Course title: Quantitative Research Methods I
University where course was taken: Vrije Universiteit Amsterdam
credits: 6 EC

Topics covered
First of all, students get to know and learn about different data sources and to summarise data in a number of descriptive statistics. Second, they learn how to work with univariate and multivariate linear regression models. We also pay attention to situations where the classical assumptions of the linear regression model do not hold: think about problems such as multicollinearity, omitted variable bias, heteroskedasticity and endogeneity. Third, students will learn to work with Probit and Logit models (in case the outcome variable is binary) and they get to know the basics of time series and panel data models. Finally, students will apply the mentioned techniques with emperical data using Stata.

Methods of examination
Exam with open questions - individual assessment
One digital exam with Stata - individual assessment
Weekly multiple choice quiz assignments - individual assessment

Compulsory literature list
Dougherty, C. (2016), Introduction to Econometrics, fifth edition, Oxford

Course title: Econometrics
University where course was taken: Shanghai University of Finance & Economics
credits: 8 EC

Topics covered:
Linear Regression Model: The concept of the one-regressor regression model and the ordinary

least squares (OLS) estimation with its statistical features and distributions.

• Multiple Regression Model: The Assumptions and OLS estimation of the model, and the relevant concept about omitted variable bias. The hypothesis tests (t-test and F-test) and their statistical inference. Qualitative information like dummy variables and their applications. Further issues like functional forms (quadratic and interaction functional forms) and OLS asymptotic properties.

• Specification and data issues: the statistical inference and applications of the Ramsey RESET Test, multicollinearity, proxy variables and measurement error.

• Endogeneity: The concept and statistical inference of Endogeneity. The test for Endogeneity. Solutions to Endogeneity, including instrument variables (IV) and two-stage least squares (2SLS).

• Time Series Analysis: The reinterpretation of assumptions in Time Series Analysis. Models of weakly dependent time series (MA, AR and ARMA models). Examples of nonstationary time series (Random Walks and Random Walks with Drift). The concept of Integration and Cointegration, and the testing hypothesis with the unit root test.

• Panel Data: The assumptions and applications for panel data. The application of the Fixed Effect Model to solve omitted variables problems. The statistical principle of clustered standard error. the interpretation and examples of the Diffin-diff Model.

• Heteroscedasticity: Examples and consequences of heteroscedasticity. The calculation of heteroscedasticity-robust standard errors. Breusch-Pagan Test and White Test for heteroscedasticity. The introduction of weighted least squares and feasible general least squares estimations.

• Maximum Likelihood Estimation (MLE): Main features of MLE. Logit and Probit models.

• Econometric Software: Using STATA to solve economic problems based on the empirical analysis models taught in the course. Literature list

• Study Materials: Jeffrey M. Wooldridge. (2018). Introductory Econometrics: A Modern Approach (6th Edition). Renmin University Press.

Methods of examination
The final grade consists of:
Four personal assignments with calculation and programming questions 10%
An empirical analysis paper 10%
Closed book midterm examination 20%
Closed book final examination 60%

Compulsory literature list
References: Joshua D. Angrist., Jörn-Steffen Pischke. (2012). Mostly Harmless Econometrics: An Empiricist’s Companion. Gezhi Press.