Program Handbook

of the

Bachelor Program
International Business and Economics

OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

at the

Otto-von-Guericke-Universität Magdeburg

**Fakultät für Wirtschaftswissenschaft/
Faculty of Economics and Management**

09/29/2015

What are the objectives of this study program?

This program is intended for students seeking a first academic degree in the sector of management and economic studies. It will provide preparation for the many career opportunities in the diverse fields of management, including, for ex., managerial communication, organisational behaviour, international management, human resource management, and economics, including banking and finance. Beyond the teaching of basics in economics and management, the program emphasizes international aspects. In addition, students receive language training on scientific level in "English for Management and Economics" and a second foreign language. The language of instruction is English, and the student community is international, German and international to equal halves.

Degree conferred:	Bachelor of Science (B.Sc.)
Course duration:	6 semester
Enrollment:	Winter semester (October)
Entry requirements:	University entrance qualification (Abitur certificate, or other)
	English language proficiency (TOEFL, or other equivalent certificate as accepted by the program)

Career perspectives:

Managerial or entrepreneurial occupation in foreign or multi-national companies, consultancy firms, international organizations, banks and financial institutions.

What kind of knowledge/experience/interest should I exhibit?

We welcome your interest in management and economic theory/problems, and proficiency in Mathematics and English.

Program office:

Grit Voigt
Tel. (0391) 67 1 88 18
Fax: (0391) 67 1 11 79
Building 22 B, Room 006
E-Mail: isp@ovgu.de

Course Coordinator:

Prof. Dr. Andreas Knabe
Tel. (0391) 67 1 85 46
Fax: (0391) 67 1 12 18
Building 22 E, Room 205
E-Mail: andreas.knabe@ovgu.de

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Program Structure/Curriculum

Bachelor Program "International Business and Economics"

1. Semester	Game Thoery 5 CP, 3 SWS	Financial Accounting 5 CP, 4 SWS	2nd Foreign Language I 5 CP	Academic Skills 5 CP	Mathematical Methods I 5 CP, 5 SWS	Principles of Management 5 CP, 3 SWS
2. Semester	Microeconomics 10 CP, 6 SWS	Management Accounting 5 CP, 4 SWS	2nd Foreign Language II 5 CP	Introduction to Probability and Statistics 5 CP, 4 SWS	Mathematical Methods II 5 CP, 5 SWS	
3. Semester	Macroeconomics 10 CP, 6 SWS	Financial Management 5 CP, 3 SWS	Skills and Unicert IV A 5 CP	Marketing Performance Management 5 CP, 4 SWS	Statistical Methods 5 CP, 4 SWS	
4. Semester	Business Decision Analysis 5 CP, 3 SWS	Economic Policy 5 CP, 3 SWS	Skills and Unicert IV B 5 CP	Principles of International Management 5 CP, 3 SWS	Introduction to International Economics 5 CP, 4 SWS	Introduction to Econometrics 5 CP, 4 SWS
5. Semester	IBE Elective Courses 3 Modules à 5 CP, 3–4 SWS each			Project Seminar: Business Planning or Economic Policy 15 CP, 2–6 SWS		
6. Semester	IBE Elective Courses 3 Modules à 5 CP, 3–4 SWS each			Bachelor seminar with Bachelor thesis 15 CP, 2 SWS		

*CP: Credit Points nach dem European Credit Transfer System (ECTS)
**SWS: Semesterwochenstunden (Attendance hours each week)

Module:
Economic Policy
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):

The students
   -   acquire knowledge how to identify the main causes for market failures,
   -   are able to discuss possible policy measures to correct for these market failures.

Contents:

-   **Introduction**
   -   **Methodological Basics**
   -   **Perfect Competition and the Welfare Optimum**
   -   **Prisoners' Dilemma and Market Failures**
   -   **Public Goods and External Effects**
   -   **Market Power**
   -   **Asymmetric Information**
   -   **Redistribution as a Collective Decision**
   -   **Financing the Public Sector**
   -   **Excess Burden of Taxation and Tax Incidence**
   -   **Incentive Effects of Specific Taxes**
   -   **Collective Decision Making**

References:
-   **Stiglitz, J. E. (2000): Economics of the Public Sector. 3rd edition, Norton: New York.**
Forms of Instruction / Course Language:
2L, 1T / English
Previous Knowledge:

The contents of the following modules are recommended
   -   **Macroeconomics,**
   -   **Mathematical Methods in Business & Economics,**
   -   **Microeconomics,**
   -   **Principles of Economics.**

Work Load:
42 hours attendance time and 108 learning hours
Frequency:
Each summer semester
Assessments/Exams/Credits:
Written mid-term exam, written final exam (60 min), 5 CP
Responsible for the Module:
Chair of Public Economics

Module:	
Academic Skills Modul 1 and 2	
Applicability of the Module:	
Compulsory module for first semester students	
Qualification Targets (Competencies):	

The students
- develop their competence in subject-specific language (comprehension, active use of lexical items and phraseology, knowledge of the structures of text varieties),
- acquire academic writing skills in accordance with accepted norms,
- acquire knowledge of the use of linguistic means in the subject-specific language
- acquire competence in presentation skills,

Contents:

- Introduction to the development of academic writing and presentation techniques

References:

- American Psychological Association. *Publication Manual of the American Psychological Association*. 6th ed. Washington, DC: APA, 2010.
- Oshima, Alice and Ann Hogue. *Writing Academic English*. 4th ed. New York: Pearson, 2006.
- Powell, Mark. *Dynamic Presentations*. Cambridge Business Skills. Cambridge: Cambridge UP, 2010.
- Williams, Erica J. *Presentations in English: Find Your Voice as a Presenter*. Oxford: Macmillan, 2008.

Forms of Instruction:

4SWS / English

Previous Knowledge:

Good Abitur-level English (comparable to B2 CEFR); entry test

Work Load:

About 56 hours attendance time and 94 learning hours

Frequency:

Each winter semester

Assessments/Exams/Credits:

Academic paper (2,000 words), presentation (10 min)

Note:

The two modules of *Academic Skills IBE* have to be taken in the same semester.

Responsible for the Module:

Language Center, Head of English Department

Module:
English UNIcert® IV/A
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The students
- are able to cope linguistically and communicate effectively approaching the level of an academically educated native speaker,   - develop their competence in communication situations in the academic domain,   - acquire knowledge and mastery of lexical items and phrases in the context of the relevant subject areas,   - master standard grammatical, phonetic and orthographic models,   - demonstrate oral and written mastery of the language,   - acquire the ability to use linguistic means in a manner appropriate both to context and intention and with the necessary stylistic variation,   - develop the linguistic and cultural competence to enable them to act effortlessly both within the English-speaking world and internationally.
Contents:
- Learning and work strategies in the four language skills, primarily for the development of reading comprehension and writing competence in dealing with contemporary themes of economic research.   - Work with diverse written and oral styles of communication.   - Skills required for the completion of an extensive piece of scientific coursework in accordance with the academic conventions typical of the Anglo-Saxon countries (e.g. correct structuring, formulation of conclusions and appropriate argumentation, quoting and correct use of sources; production of an abstract and a table of contents, completion of a correct list of references).
References:
Related to current themes of economic research
Forms of Instruction:
4L / English
Previous Knowledge:
Successful completion of UNIcert® III
Work Load:
56 attendance hours and 94 learning hours
Frequency:
Each winter semester
Assessments/Exams/Credits:
Academic paper / 5 CP
Responsible for the Module:
Language Center, Head of English Department

Module:
English UNIcert® IV/B
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):

The students
  ▪ are able to cope linguistically and communicate effectively approaching the level of an academically educated native speaker,
  ▪ develop their competence in communication situations in the academic domain,
  ▪ acquire knowledge and mastery of lexical items and phrases in the context of the relevant subject areas,
  ▪ master standard grammatical, phonetic and orthographic models,
  ▪ demonstrate oral and written mastery of the language,
  ▪ acquire the ability to use linguistic means in a manner appropriate both to context and intention and with the necessary stylistic variation,
  ▪ develop the linguistic and cultural competence to enable them to act effortlessly both within the English-speaking world and internationally.

Contents:
▪ Learning and work strategies in the four language skills focusing on the development of efficient reading and listening comprehension strategies and writing competence in dealing with contemporary themes of economic research   ▪ Skills required for comprehensive academic presentations on subject-related themes demonstrating competence in handling appropriate academic discourse in a subsequent discussion and the ability to defend own positions effectively and convincingly
References:
Contemporary themes of economic and politico-economic research
Forms of Instruction:
4L / English
Previous Knowledge:
-    successful completion of the Unicert® IV/A module
Work Load:
56 attendance hours and 94 learning hours
Frequency:
Each summer semester
Assessments/Exams/Credits:
Final exams: writing (240 min) and presentation (30 min) / 5 CP
Responsible for the Module:
Language Center, Head of English Department

Module:
Financial Accounting
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):

The students
      - learn and practice double-entry bookkeeping, get a basic acquaintance with financial
        statements according to International Accounting Standards,
      - gain an insight into the fundamentals of accounting valuation of assets and liabilities
        and learn how to make adequate accrual accounting judgements,
      - are able to devise an accounting system for a small and simple business from a given
        set of transactions occurring in it apart from taxation specialties,
      - develop an understanding for the significance of the line entries commonly found in
        published financial statements.

Contents:

- Basic notions: accounting vs. legal entity, users of accounting information, desirable
    features
   - Balance sheet, income statement, cash flow statement and their articulation;
    Typical line items
   - Formalism of double-entry bookkeeping and procedure of record keeping
    - Closing the accounts and preparing the financial statements
   - Revenue and expense recognition and accrual adjustments
   - Valuation and disclosure of individual asset and liability classes: Fixed assets,
   tangible and intangible; inventory valuation; receivables and revenue recognition;
   liabilities, Equity capital of corporations; financial investments.

References:
-    Jones, M. (2014): Financial Accounting. 2nd Edition, Wiley: Chichester et al.
Forms of Instruction / Course Language:
2L, 2T / English
Previous Knowledge:
-    none
Work Load:
56 hours attendance time and 94 learning hours
Frequency
Each winter semester
Assessments/Exams/Credits:
Presentation of solutions to exercises (up to 20% weight; final exam (60 min) weighted at the complement to 100%), 5 CP
Responsible for the Module:
Chair of Accounting and Control

Module:
Financial Management

Applicability of the module:
Compulsory module

Qualification Targets (Competencies):
The students

The students
- are able to decide what investments should be made and how to finance them,
- have knowledge about analytical techniques which are used to value investment projects and financial assets including bond valuation based on the term structure and the valuation of risky assets based on the capital asset pricing model,
- know the different forms of financing and the influence to the capital structure of the firm.

Content:

- **Capital Budgeting**
- **Term Structure of Interest Rates**
- **Duration**
- **Capital Asset Pricing Model**
- **Capital Structure**
- **Sources of Financing**
- **Basics of Firm Valuation**

Literature:

- Brealey, R. A.; Myers S. C., Allen, F. (2008): Principles of Corporate Finance. 9th edition, McGraw-Hill: Boston [Mass.].
- Ross, S. A.; Westerfield, R. W.; Jordan, B. D. (2007): Fundamentals of Corporate Finance. 8th edition, McGraw-Hill: Boston [Mass.].

Forms of Teaching / Course Language:
2L, 1T / English

Prerequisites:
The contents of the following modules are recommended

The contents of the following modules are recommended
- **Decision Analysis,**
- **Mathematical Methods in Business & Economics,**
- **Microeconomics,**
- **Statistical Data Analysis.**

Work Load:
42 hours attendance time and 108 learning hours

Frequency:
Each winter semester

Assessments/Exams/Credits:
Written exam (120 min), 5 CP

Responsible for the Module:
Chair of Economics of Business and Law

Module:
Game Theory
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
Game theory is a branch of mathematical decision theory that studies interactions amongst rational decision makers in a well-defined strategic situation (game). This course equips students with the theoretical methods needed to analyse and solve basic classes of games. Student will be able to examine economic situations of conflicting interests as normal- or extensive-form games. By exposing students to a variety of real world applications that can be analysed game-theoretically this course also should encourage students to think strategically in their future business environments.
Contents:
- Prerequisites and introduction - Static games under complete information - Dynamic games under complete information - Introduction to incomplete information
References:
- Main reference: Fiona Carmichael (2005) "A guide to game theory", Prentice Hall - Supplementary reference: Steven Tadelis (2013) "Game Theory – An introduction", Pinceton University Press
Forms of Instruction / Course Language:
2L, 1T / English
Previous Knowledge:
- none
Work Load:
42 hours attendance time and 108 learning hours
Frequency
Each winter semester
Assessments/Exams/Credits:
Written final exam (60 min), 5 CP
Responsible for the Module:
Chair of Economic Policy

Module:
Introduction to Econometrics
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):

The students
   -   acquire a basic understanding of econometrics from an applied perspective, in particular regression analysis and how to apply econometrics to real-world problems,
   -   know and understand basic testing and estimation methods and how to apply these with the help of econometric software packages to real world data,
   -   learn about the various challenges that arise in economic applications and how to deal with them.

Contents:

-   **The Nature of Econometrics and Economic Data**
   -   **The Simple Regression Model**
   -   **Multiple Regression Analysis: Estimation**
   -   **Multiple Regression Analysis: Inference**
   -   **Multiple Regression Analysis: OLS Asymptotics**
   -   **Multiple Regression Analysis: Data Scaling, Functional Form, Goodness-of-Fit**

References:
-   **Wooldridge, J.M. (2013), Introductory Econometrics. A Modern Approach, 5th international edition, South-Western, Cengage Learning.**
Forms of Instruction / Course Language:
2L, 2T / English
Previous Knowledge:
Knowledge of basic mathematical tools and of fundamentals of probability and mathematical statistics is recommended. The textbook for this course contains concise reviews of these.
Work Load:
56 hours attendance time and 94 learning hours
Frequency
Each summer semester
Assessments/Exams/Credits:
Written final exam (60m), 5 CP
Responsible for the Module:
Chair of Economics, esp. Applied Economics

Module:
Introduction to International Economics (Internationale Wirtschaftsbeziehungen)
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The students
- get introduced into the fundamentals of international trade and finance theories,
- develop a thorough understanding of the real and monetary aspects of globalization (international trade, factor movements, financial markets and exchange rules),
- are enabled to analyze the options for and limitations to national economic policy.
Contents:
- International Trade
- Some Basics
- Trade Theories
- Trade Policies
- International Finance
- Some Basics
- Exchange Rate Determination
- Open Economy Macroeconomics
- Facts, History, Institutions
- International Trade Policy in Practice
- International Finance in Practice
- Challenges of Globalisation
References:
- Krugman, P. R.; Obstfeld, M. (2014): International Economics. 10th edition, Pearson: London.
Forms of Instruction / Course Language:
2L, 2T / English
Previous Knowledge:
The contents of the following module are recommended
- Macroeconomics or Makroökonomie,
- Microeconomics or Mikroökonomie.
Work Load:
56 hours attendance time and 94 learning hours
Frequency:
Each summer semester
Assessments/Exams/Credits:
Written exam (120 min), 5 CP
Responsible for the Module:
Chair of International Trade

Module:
Introduction to Probability and Statistics

Applicability of the module:
Compulsory module

Qualification Targets (Competencies):
The students

The students
- acquire basic knowledge of descriptive statistics for univariate data and for analysing simple relationships,
- develop the ability to analyse data using appropriate tools,
- are introduced to basic principles of probability,
- are able to compute probabilities for some standard distributions,
- understand how real world problems can be modelled by using probabilistic concepts.

Contents:

- Variables and measurement levels
- Methods of descriptive statistics and explorative data analysis: tabular and graphical methods for summarizing data and empirical measures of location and variability (e.g., frequency tables, boxplot, mean, median, quantiles, variance and standard deviation)
- Elementary probability concepts, discrete and continuous random variables, probability distributions, probability density function and cumulative distribution function
- Theoretical measures of location and variability (expected value, variance, standard deviation, quantiles)
- Statistical independence, conditional probability, Bayes theorem
- Special distributions: Bernoulli, Binomial, Poisson, continuous uniform, exponential and normal distributions
- Law of large numbers, central limit theorem
- Simple concepts for relationships: contingency tables and Pearson correlation

References:

- Newbold, P., Carlson, W., Thorne, B. (2013). Statistics for Business and Economics. 8th edition, Pearson: Harlow.

Forms of Instruction / Course Language:
2L, 2T / English

Previous Knowledge:

- none

Work Load:
56 hours attendance time and 94 learning hours

Frequency
Each summer semester

Assessments/Exams/Credits:
Written final exam (60 min), 5 CP

Responsible for the Module:
Institute for Mathematical Stochastics (FMA)

Module:
Macroeconomics
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The students - acquire an analytical understanding of the determinants of economic growth and business cycles, - become acquainted with the empirical evidence on growth, cycles, and the impact of government economic policies, - are enabled to assess the possibilities and limitations of government policies aiming at controlling employment, inflation, and growth.
Contents:
- Stylized facts on aggregate fluctuations - Goods market and effective demand - Financial market and the role of money - IS-LM model (as a tool of analyzing fiscal and monetary policy) - Labor market - AS-AD model - Phillips curve - Money and inflation - Stylized facts of growth and growth accounting - Saving, capital accumulation, technological progress and growth
References:
- Blanchard, O.; Johnson, D. R. (2012): Macroeconomics. 6th edition, Pearson/Prentice Hall: Upper Saddle River [N.J.]
Forms of Instruction / Course Language:
4L, 2T / English
Previous Knowledge:
The contents of the following modules are recommended - Mathematical Methods in Business & Economics, - Microeconomics,
Work Load:
84 hours attendance time and 300 learning hours
Frequency:
Each winter semester
Assessments/Exams/Credits:
Final written exam (120 min), 10 CP
Responsible for the Module:
Chair of Economics, esp. Applied Economics

Module:
Management Accounting

Applicability of the module:
Compulsory module

Qualification Targets (Competencies):
The students
- develop an understanding of Cost Accounting and Budgeting as instruments of planning and control in a management perspective,   - are able to derive managerial information from an analysis of different budget variances and to derive managerial consequences,   - get to know recent developments in cost accounting such as activity-based costing and learn to assess the adequacy of the information generated for different managerial decision problems.

Contents:
- Concepts of cost   - Influences on cost   - Cost functions   - Cost-volume-profit analysis   - Activity-based costing as opposed to traditional systems   - Budgeting and variances   - Flexible budgets,   - Analysis of and allocating capacity costs   - Concept of relevant costs for decision making   - Cost information and Pricing   - Customer profitability analysis and contribution margin accounting   - Allocating common costs, esp.   - The cost of service departments

References:
- Horngren, C. T.; Foster, G.; Datar, S. M. (2006): Cost Accounting – A Managerial Emphasis. 12th edition, Prentice Hall: Upper Saddle River [N.J.].

Forms of Instruction / Course Language:
2L, 2T / English

Previous Knowledge:
The contents of the following module are recommended
- Financial Accounting.

Work Load:
56 hours attendance time and 94 learning hours

Frequency:
Each summer semester

Assessments/Exams/Credits:
Presentation of solutions to exercises (up to 20% weight; written final exam (60 min) weighted at the complement to 100%), 5 CP

Responsible for the Module:
Chair of Accounting and Control

Module:
Marketing Performance Management
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The objective of this course is to define and explain the fundamental aspects of marketing performance management with special emphasis on marketing controlling. After successful completion of this course students will - know the basics of marketing controlling and be able to apply instruments of marketing performance management, - understand the emergence and relevance of fundamental marketing concepts and metrics, and - have a sound understanding of different approaches for measuring, for example, brand equity, customer equity, and corporate reputation.
Contents:
- Instruments of marketing performance management - Customer satisfaction - Customer retention - Customer value management - Brand equity management - Corporate reputation
References:
- Sarstedt, Marko and Erik Mooi (2014). *A Concise Guide to Market Research. The Process, Data, and Methods Using IBM SPSS Statistics.* 2nd edition, Springer: Berlin et al. - Armstrong, Gary and Philip Kotler (2014). *Marketing – An Introduction.* 12th edition, Pearson/Prentice Hall: Boston et al.
Forms of Instruction / Course Language:
2L, 2T / English
Previous Knowledge:
none
Work Load:
56 hours attendance time and 94 learning hours
Frequency
Each winter semester
Assessments/Exams/Credits:
Written final exam (60 min), 5 CP
Responsible for the Module:
Chair of Marketing

Module:
Mathematical Methods I
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The students

- acquire an understanding of the basic mathematical methods and algorithms required for business and economics,
- get to know introductory parts of basic mathematics and most relevant topics from calculus,
- are enabled to apply mathematical methods to economic problems.

Contents:

- Logic, sets and real numbers
- Sequences and series
- Functions of a real variable
- Differential calculus for functions of a real variable
- Integration

References:

- Werner, F.; Sotskov, Y.N. (2006): Mathematics of Economics and Business, 1st edition, Routledge, Abingdon (UK), New York (USA)

Forms of Instruction / Course Language:
2L, 3T / English
Previous Knowledge:

- none

Work Load:
70 hours attendance time and 80 learning hours
Frequency
Each winter semester
Assessments/Exams/Credits:
Written final exam (60 min), 5 CP
Responsible for the Module:
Institute for Mathematical Optimization (FMA)

Module:
Mathematical Methods II

Applicability of the module:
Compulsory module

Qualification Targets (Competencies):

The students
- acquire an understanding of the basic mathematical methods and algorithms required for business and economics,
- get to know most relevant topics from algebra and functions of several variables,
- are enabled to apply mathematical methods to economic problems.

Contents:

- Vectors
- Matrices and determinants
- Systems of linear equations
- Functions of several variables

References:

- Werner, F.; Sotskov, Y.N. (2006): Mathematics of Economics and Business, 1st edition, Routledge, Abingdon (UK), New York (USA)

Forms of Instruction / Course Language:
2L, 3T / English

Previous Knowledge:

The contents of the following modules are recommended
- Mathematical Methods I

Work Load:
70 hours attendance time and 80 learning hours

Frequency
Each summer semester

Assessments/Exams/Credits:
Written final exam (60 min), 5 CP

Responsible for the Module:
Institute for Mathematical Optimization (FMA)

Module:
Microeconomics
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The students - learn the functioning of the market economy, the role of prices in determining the allocation of resources, the functioning of the firm in the economy and the forces governing the production and consumption of economic goods, - are introduced to the process of microeconomic modeling, - are trained to understand and solve basic real world microeconomic problems, - acquire the ability to develop critical thinking about economic matters
Contents:
- Consumer Theory: Household choice, Preference revelation, Decomposition, Economic Dual, Endowment Economies, Market demand, Consumer Surplus … - Producer Theory: Technology and Production, Optimization, Market Supply, Producer Surplus - Market Equilibrium - Welfare Theorems - Imperfect competition
References:
- Varian, H. (2006): Intermediate Microeconomics. 7th edition, W.W. Norton: New York. (main reference) - Varian, H. (1992): Microeconomic Analysis. 3rd edition, W.W. Norton: New York. (used occasionally)
Forms of Instruction / Course Language:
4L, 2T / English
Previous Knowledge:
- No specific module is required but basic calculus knowledge and abilities are necessary
Work Load:
84 hours attendance time and 216 learning hours
Frequency
Each summer semester
Assessments/Exams/Credits:
Written final exam (120 min), 10 CP
Responsible for the Module:
Chair of Economic Policy

Module:
Principles of Management
Applicability of the module:
Compulsory module
Qualification Goals (Competencies):

The students
   -   acquire basic knowledge about incorporation, organization, and financial funding of a business,
   -   become familiar with basic tools for staffing and production planning and marketing,
   -   acquire a sound foundation in the economic theory of business management.

Contents:

-   **The firm as a tool to create value**
   -   **Aspects of Marketing**
   -   **Staffing a Corporation and Organizational Architecture**
   -   **Fundamentals of Accounting**
   -   **Incorporating a Firm: Alternative Legal Options, Tax Aspects**
   -   **Production and Logistics**
   -   **Financial Planning**
   -   **Vertical Integration and Outsourcing**
   -   **Business Environment and Ethics**

Literature:
-   **tba**
Forms of Instruction / Course Language:
2L, 1T / English
Previous Knowledge:
-   **none**
Work Load:
42 hours attendance time and 108 learning hours
Frequency:
Each winter semester
Assessments/Exams/Credits:
Final exam (60 min), 5 CP
Responsible for the Module:
Chair of Economics of Business and Law, Senior Lectureship of Business Economics

Module:
Second Foreign Language (one year)
Applicability of the module:
Compulsory elective module
Qualification Targets (Competencies):
According to their qualifications the students - **acquire basic knowledge of a foreign language,** - **develop skills in the utilization of a language with respect to speaking and writing,** - **are able to cope linguistically and communicate effectively in the context of everyday and academic situations,** - **develop their competence in the subject-specific language (comprehension, active use of lexical items and phraseology, knowledge of the structures of text varieties)** - **acquire knowledge of the use of linguistic means in the subject-specific language.**
Contents:
According to their qualification the students may acquire a UNICERT I, II or III degree in French, Italian, Russian or Spanish. Alternatively they can also choose Latin or Greek courses with the degrees "Kleines Latinum, Latinum, Großes Latinum, Graecum" or Swedish courses with a B1 degree. Degree A1 – C2 for German as a foreign language are possible as well for students who are not native speakers of German. **Contents of the courses are (among others): Learning and work strategies in the four language skills (writing, speaking, reading, listening) comprising the development of both the active and receptive activities.**
References:
- **Course dependent**
Forms of Instruction:
- **Course dependent (2-12 L)**
Previous Knowledge:
- **Course dependent**
Work Load:
- **Course dependent**
Frequency:
Each semester
Assessments/Exams/Credits:
Written/oral exams (end of term: Course dependent) / 10 CP
Responsible for the Module:
Language Centre

Module:
Statistical Methods
Applicability of the module:
Compulsory module
Qualification Targets (Competencies):
The students

The students
- are introduced to basic concepts of inferential statistics,
- acquire the ability to select and apply appropriate methods for classical estimation and testing problems,
- acquire the ability to translate real-world economic problems into statistical terms,
- are able to relate statistical results back to real-world applications.

Contents:

- **Point and interval estimation**
- **Testing statistical hypotheses**
- **Properties of point estimators**
- **Sampling distributions**
- **Classical estimation and testing procedures for one-sample and two-sample problems**
- **Goodness of fit tests and tests of independence**
- **Checking distributional assumptions**

References:

- **Newbold, P., Carlson, W., Thorne, B. (2013). Statistics for Business and Economics. 8th edition, Pearson: Harlow.**

Forms of Instruction / Course Language:

2L, 2T / English

Previous Knowledge:

The contents of the following module are recommended
- **Introduction to Probability and Statistics.**

Work Load:

56 hours attendance time and 94 learning hours

Frequency

Each winter semester

Assessments/Exams/Credits:

Written final exam (60 min), 5 CP

Responsible for the Module:

Institute for Mathematical Stochastics (FMA)