

Magellan Exchange

GRADUATE/MASTER Course Offerings in English

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Variation may occur; please use this as a general guide only. Credits, course requirements, and eligibility vary.

More information about each institution is available at <http://www.magellanexchange.org/partners/>.

Vorarlberg University of Applied Sciences - Dornbirn, Austria

FALL 2021 SEMESTER

Mechatronics

Advanced Finite Element Analysis
Applied Robotics
Digitization of Production
Directed Research Seminar

Embedded Systems III
Higher Mathematics III
Sensor Systems

Sustainable Energy Systems

Advanced Finite Element Analysis
Computer Applications
Critical Thinking
Efficient Systems Project
Efficient Systems – Selected Chapters
Electrical Power Systems
Energy Markets & Trading

Energy Project – Business Plan
Energy Transmission
Financing & Economic Viability
Internet of Energy
Seminar Master Thesis
Smart Buildings Project
Smart Buildings – Selected Topics

Spring 2022 SEMESTER

Business

Business Communication
Cross-Cultural Management
Digital Business Management
Leadership Skills Lab

Leading Change & Transformation
Multinational Organizations & Strategy
Research Methods

Computer Science

Advanced Topics in Big Data, Security, & Semantic
Autonomous Systems: Perception
Digital Transformation
Information Security

Machine Learning
Mobile Computing & Internet of Things
Modelling

Sustainable Energy Systems

Energy & Society
Economic & Energy Law

Sustainability Management

FALL 2022 SEMESTER

Business

Accounting in the Digital Age	International Sourcing & Procurement
Advanced Accounting & Consolidation	International Talent Management
Application Project in Sports & Tourism	International Trade & Finance
B2B Marketing	Interpersonal Communication & Personal Coaching
Coding & Data Science for Accounting & Finance	Interpersonal Communication Skills
Contemporary Brand Management	Introduction to Business Analytics
Coordination in Supply Chain Management	Introduction to Data Science for Business
Corporate & Business Law	Introduction to Financial Econometrics
Corporate Social Responsibility	Introduction to Supply Chain Analysis
Corporate Social Responsibility in Finance	Introduction to Supply Chain Management
Crisis Management	Logistics & Transport Management in Tourism Industry
Data Management	Luxury Marketing Strategy
Data Science for Negotiation & Business Development	Management & Cost Accounting
Database for Direct Marketing and eCRM	Marketing of Innovation
Digital Marketing & Branding	Marketing of New Products
Dynamics of Luxury Industry & Business Models	Media Studies for Sports & Tourism Industry
Economic Modeling	Merchandising in Sports & Tourism Sector
External Auditing	Omni-Channel Consumer Behavior
Financial Equity & Portfolio Management	Optimization & Simulation
Financial & Managerial Accounting: Fundamentals	Procurement & Inventory Management
Financial Theory	Programming for Data Analytics
Financial Tool Box	Project Management
Global Marketing Strategy	Quality Management & Lean Supply Chain
Global Organization Behavior	Sales & Purchasing in Sport & Tourism Industry
Integrating Online & Offline Marketing Communications	Simulations in Int.'l Negotiation & Business Develop. I
International & Comparative Employment Law	Sport Marketing & Sponsorship
International Consumer Behavior	Statistical Modeling for Business
International Fair	Sustainable Supply Chain/Green Logistics
International Human Resource Management I	Time Series Analysis
International Negotiation & Business Development	Tourism Marketing & Management

SPRING 2023 SEMESTER

Business

Advanced Analytics in Logistics
Advanced Analytics in Production Systems
Advanced Brand Management
Advanced Strategy
Alternative Investments
AI & Cybersecurity
AI & FinTech
Applied Cybersecurity Concepts Project
B2B Marketing
Corporate Design & Brand Identity in Sports & Tourism
Corporate Design in the Luxury Industry
Corporate Governance
Corporate Social Responsibility
Corporate Sustainability Reporting
Crisis Management
CRM in Sports & Tourism
Customer Data Analysis
Customer Experience Management
Cybersecurity Management
Data Driven SCM
Deep Learning in Neural Networks for Finance
Designing User Experience & Web Analytics
Digital Advertising & Communication
e-HRM & Institutions
e-Marketing
Empirical Methods in Finance II
Ethical & Socially Responsible Finance
Events Management in Sports & Tourism Sector
Financial Data Infrastructure
Financial Engineering & Commodity Trading
Financial Equity & Portfolio Management
Financial Management & Business Advisory
Financial Toolbox
Geopolitics of Cybersecurity
Global Human Resource Management
Global Supply Chain & International Trade
Hospitality Management
Integrating Online & Offline Marketing Communications
International Business Law
International Consumer Behavior
International & EU Business Law
International Financial Regulation
International Financial Reporting
International Human Resource Management II
International Marketing Management
International Sport Policies & Sport Organization Mgmt.
International Taxation
Introduction to Supply Chain Management
Islamic Finance
Key Challenge with Cryptocurrencies
Law & Contract Negotiation
Legal Environment of Sports & Tourism Sector
Luxury Retail & e-Commerce
Management of Change
Management Control
Management Decision Tools
Management of Distribution & Transportation
Management of Int'l. Negotiation & Business Develop.
Marketing Communication in the Luxury Industry
Marketing Intelligence & Pricing Strategy
Marketing Research
Marketing Research & Analysis
Mergers & Acquisition: International Perspective
Next Organization
Omni-Channel Distribution & Retail Management
Production & Information Systems
Production Systems
Purchasing Management
Purchasing & Supply Chain
Recent Topics in AI & Finance
Retail Analytics
Sales Strategy & Management
Short-term & Long-term Financing
Simulations IHRM
Simulations in Int'l. Negotiation & Business Dev. II
Social Media Intelligence
Sourcing & ePurchasing
Strategic Management
Supply Chain Risk Management
Sustainable Supply Chain/Green Logistics
Web Based Project Management

FALL 2021 SEMESTER

Aerospace Engineering (Aachen campus)

Advanced Aerospace Engineering

General Aerospace Engineering

Chemistry & Biotechnology (Jülich campus)

Business Administration

Nuclear Physics

Fundamental Skills I

Nuclear Physics & Radiation Detection

Medical Physics

Nuclear Technology

Nuclear Chemistry I & II

Scientific Skills

Nuclear Chemistry & Radiation Biology

Energy Systems (Jülich campus)

Advanced Control Systems

Plant Design

CARNOT: Simulation Program for Solar Thermal Systems

Power Plant Technology

Chemical Reaction Theory

Simulation & Optimization in Virtual Engineering

Energy, Economy & Energy Policy

Solar Technologies

Finite Elements

Mechanical Engineering & Mechatronics (Aachen campus)

Advanced Engineering Mathematics

Fundamentals of Mechanical Engineering

Advanced Motion Control

Mechatronic Systems Simulation

Analog & Digital Control Technology

MEMS/Microtechnology

Fundamentals of Electrical Engineering

Sensors & Actuators

Nuclear Applications (Jülich campus)

Applied Data Analysis

Modeling & Simulation

Focus Field

Project Nuclear Applications

Fundamentals of Nuclear Science

Radiation Detection

Fundamental Skills I & II

Scientific Skills

SPRING 2022 SEMESTER

Aerospace Engineering (Aachen campus)

Advanced Aerospace Engineering

General Aerospace Engineering

Business (Aachen campus)

Cross-Cultural Competencies

International Economics

Customer Integration

International Supply Chain Management

Governance & Responsibility

Management of Sales & Services

Energy Systems (Jülich campus)

Development of Functional Safe Systems

Simulation Methods

Electric Power Systems

Turbomachinery

Mechanical Engineering & Mechatronics (Aachen campus)

Autonomous Mobile Robotic Systems

Systems Engineering

Nuclear Applications (Jülich campus)

Focus Field
Nuclear Applications I & II

Nuclear Chemistry
Nuclear Physics

Schmalkalden University of Applied Sciences – Schmalkalden, Germany

FALL 2021 SEMESTER

Business, Economics, & Law

Anglo-American Bankruptcy Management
Austrian School
Capital Budgeting
Financial Accounting
Foundations of Corporate Law
Intercultural Communication
Intercultural Management

International Sales Law & Arbitration
Marketing
Mathematics
Microeconomics
Principles of Economics
Soft Skills
Transport Economics & Policy

Computer Science

Distributed Systems
General Management Simulation
Image Processing I & Compression Standards
Image Processing II

IT-Security
Metamodeling Platforms for Application Development
Project Management
Web Applications

Mechanical Engineering

Finite Elements Method
Fossils & Bio Fuels, Lubricants & Plastics
Fundamentals of Vibration Engineering
Intercultural Learning & Event Management

Laser Technology
Simulation of Motion
Surface Engineering & Coatings Technology
Thermodynamics

Electrical Engineering

Artificial Intelligence
Automation Control
Digital Signal Processing

Digital Signal Processing for Engineering Applications
Microelectronic Technologies
Sensor Systems

SPRING 2022 SEMESTER

Business, Economics, & Law

Behavioral Finance
Digital Business
Drafting of International Contracts & Conflict of Laws
EU Labor Law
European & International Recovery & Insolvency Law
Exchange Rates & International Macroeconomics Policy
Finance & Investments
Intercultural Management & Communication

International Business
International Financial Management
International Trade Theory & Policy
Macroeconomics
Marketing A: Strategic Marketing & Brand Management
Operations Management
Private International Law
Statistics

Computer Science

Agile Project Management & Software Development
Big Data Technologies
Computational Intelligence
General Management Simulation

IT Security
Legal Tech Lab
Media Production
Mobile Security

Electrical Engineering

Communication Networks
Communication Systems

Electronic Control Systems
Human Machine Interaction

Mechanical Engineering

Automotive Drive Systems
Factory Planning & Enterprise Logistics
Fossil & Bio Fuels, Lubricants & Plastics
Introduction to Materials Science (for SDU students)

Laser Technology
Numerical Heat Transfer Simulation
Production Technology
Simulation Driven Design

University of Belgrade (Faculty of Economics) – Belgrade, Serbia

FALL 2021 SEMESTER

Business

Accounting Information for Decision Making
Applied Macro-Finance
Applied Microeconomics
Asset Pricing
Big Data Management
Business Process Management
Corporate Financial Reporting
Developing Software Solutions
Digital Tools
Direct & Indirect Taxes
Economics of Taxation – Principles & Policy
Information System Management
Intermediate Econometrics

Intermediate Public Finance
Investments
Machine Learning & Data Mining
Mathematics & Modelling for Economics & Finance
Methodology of Scientific Research
Microeconometrics
Organization & Management
Principles of Tax Law & Tax Procedure
Research Seminar
Stochastic Calculus for Finance
Tax Accounting
Topics in Finance
Welfare Economics

SPRING 2022 SEMESTER

Business

Advanced Digital Tools	Fixed Income Securities
Applied Macro-Finance	Growth Theory & Economic Policy
Behavioral Economics & Finance	Intermediate Labor Economics
Business Analytics & Decision Making Using Data	Intermediate Macroeconomics
Business Econometrics & Data Analysis	Intermediate Strategic Marketing
Corporate Finance	International Tax Planning
Derivatives	IT Project Management
Digitalization & Taxation	Machine Learning & Data Mining
Digital Marketing	Policy Analysis & Impact Evaluation
E-Commerce	Research Seminar
Ethical Issues in Tax Practice	Risk Modeling
EU Company Law	Taxation of Wealth & Financial Services
EU Tax Law	Topics in Economics

ESERP Business School – Barcelona, Spain

FALL 2021 SEMESTER

Business

Branding	Legal and Tax Treatment of Managerial Activities
Commercial Management	Product Strategy & Brand Positioning
Company Police and General Management	Research and Marketing Science
Economic Control and Optimization of Results	Strategic and Operational Marketing lan
Financial Management	Strategies and Policies of Market Management
Global Marketing	Supply Chain Management
Globalization and Internationalization of Markets	

SPRING 2021 SEMESTER

Business

Balanced Scorecard	Negotiation and Conflict Resolution
Big Data	Production Management, Operations & Logistics
Digital Marketing	Sales Force Management
E-commerce	Sales Forecast
Management Skills. Leadership & Motivation	Technological Innovation in Business
Managerial Ethics and SCR	

Valencia Polytechnic University – Valencia, Spain

FALL 2021 SEMESTER

Design Engineering

Advanced 3-D Sketching Techniques	Course Outline Design & Accessibility
Advanced Visualizations, Virtual Reality (Product Design)	Graphic Design & Business Image
Color Control for the Product	Modelling of Systems for Knowledge Management

Industrial Engineering

Advanced Tissue Engineering & Regenerative Therapy
Analysis of Genomic Data
Applied Energy Technology – Project
Data Quality & Interoperability
Environmental Impact Assessment of Energy Systems
Instrumentation & Monitoring of Energetic Facilities

Introduction to Research in Energy
Management
Membrane Processes for Wastewater Treatment
Practical Tasks in Energy Audits
Scaffolding Materials for Tissue Engineering
Techno-Economical Assessment of Energy Systems

Informatics

Biomedical Data Science
Business Analytics

Data Science

SPRING 2022 SEMESTER

Civil Engineering

Advanced Surface Hydrology
Art & Aesthetics in Civil Engineering
Energy Systems & Power Plants

Integrated Construction Project Management
Structure Dynamics
Sustainable Urban Mobility & Transport

Design Engineering

Business Design & Entrepreneurship
Design Analysis & Validation Models
Innovation & Design

Marketing Design
Models for Innovation of Products & Services
New Promotional Platforms

Industrial Engineering

Advanced Energy & Thermal Machines
Advanced Performance Measurement Systems
Applications of Computational Linguistics
Corporate Social Responsibility in Engineering
Energy Markets
Energy Simulation of Buildings
Energy & Sustainable Development
Entrepreneurship & Innovation & Technology Mgmt.
Generation, Transmission & Distribution of Electric Power
Industrial Quality Control
Industrial Safety & Environment
Logistics & Supply Chain Processes

Mobile Robotics
Modeling & Simulation of Bioelectric Systems
Nanodiagnosics & Nanotherapy
Nuclear Dynamics
Operations Consulting
Organizational Behavior
Project Management
Recruitment Skills
Sustainable Development & Energy
Systematic Innovative Thinking for Engineers
Work Study & Process Design

Informatics

Geospatial Data Processing
Strategic Data Analysis in Smart Cities

Web Data Analytics