

Magellan Exchange

GRADUATE/MASTER Course Offerings in English

Last updated: 10 August 2021

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

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

Introduction to Financial Markets – Market Strategy

Knowledge Management

Living in a Digitally Augmented Lifeworld

Smart Buildings Project

Transformation Design

Mechatronics

Advanced Finite Element Analysis

Applied Robotics

Digitization of Production

Directed Research Seminar

Embedded Systems III

Higher Mathematics III

Introduction to Financial Markets – Market Strategy

Knowledge Management

Living in a Digitally Augmented Lifeworld

Sensor Systems

Transformation Design

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

Alternative User Interface Engineering

Autonomous Systems: Perception

Computational Intelligence II

Digital Transformation

Information Security

Machine Learning

Mobile Computing & Internet of Things

FALL 2021 SEMESTER

Business (choose courses in one program only)

Data & Business Analytics:

Data Management

Introduction to Business Analytics

Optimization & Simulation

Statistical Modeling for Business

Programming for Data Analytics

Time Series Analysis

Financial Data Intelligence:

Coding & Data Science for Accounting & Finance

Corporate Social Responsibility in Finance

Economic Modeling

Financial Equity & Portfolio Management

Financial Theory

Introduction to Financial Econometrics

Global Business Management:

Financial Tool Box

Global Marketing Strategy

Global Organization Behavior

Introduction to Data Science for Business

Introduction to Supply Chain Management

Project Management

International Accounting, Management Control, Auditing:

Accounting in the Digital Age

Advanced Accounting & Consolidation

Corporate & Business Law

Corporate Social Responsibility

External Auditing

Management & Cost Accounting

Financial & Managerial Accounting: Fundamentals

International Finance:

Advanced Corporate Finance

Applied Economics

Coding & Data Science for Accounting & Finance

Corporate Social Responsibility in Finance

Exchange Markets

Financial Economics

Quantitative Finance

International Human Resource Management:

Financial Toolbox

Global Organization Behavior

Project Management

International & Comparative Employment Law

International Human Resource Management I

International Talent Management

Interpersonal Communication & Personal Coaching

International Luxury & Brand Management:

Contemporary Brand Management

Dynamics of Luxury Industry & Business Models

Luxury Marketing Strategy

International Consumer Behavior

Marketing of New Products

International Negotiation & Development:

Crisis Management

Data Science for Negotiation & Business Development

Financial Toolbox

Global Marketing Strategy

International Negotiation & Business Development I

International Sourcing & Procurement

International Trade & Finance

Interpersonal Communication Skills

Sports & Tourism Management:

Application Project in Sports & Tourism
Corporate Social Responsibility
Logistics & Transport Management in Tourism Industry
Media Studies for Sports & Tourism Industry

Merchandising in Sports & Tourism Sector
Sales & Purchasing in Sport & Tourism Industry
Sport Marketing & Sponsorship
Tourism Marketing & Management

Strategic & Digital Marketing:

Digital Marketing & Communication: Database for Direct Marketing and eCRM; or Digital Marketing & Branding
Integrating Online & Offline Marketing Communications
Marketing of Innovation

Omni-Channel Consumer Behavior
Strategic Marketing: Contemporary Brand Management;
or B2B Marketing

Supply Chain Management:

Coordination in Supply Chain Management
Introduction to Supply Chain Analytics
Introduction to Supply Chain Management

Procurement & Inventory Management
Quality Management & Lean Supply Chain
Sustainable Supply Chain/Green Logistics

SPRING 2022 SEMESTER

Business (choose courses in one program only)

Data & Business Analytics:

Advanced Analytics in Logistics
Advanced Analytics in Production Systems
Advanced Strategy
AI & FinTech
Alternative Investments
Corporate Social Responsibility
Customer Data Analysis
Data Driven Supply Chain Management
Deep Learning in Neural Networks for Finance

e-Marketing
Financial Equity & Portfolio Management
Financial Toolbox
Global Supply Chain & International Trade
Marketing Research & Analysis
Introduction to Supply Chain Management
Retail Analytics
Social Media Intelligence
Strategic Management

Financial Data Intelligence:

Advanced Strategy
AI & Cybersecurity
AI & FinTech
Applied Cybersecurity Concepts Project
Cybersecurity Management
Empirical Methods in Finance II

Financial Data Infrastructure
Financial Engineering & Commodity Trading
Geopolitics of Cybersecurity
Key Challenge with Cryptocurrencies
Recent Topics in AI & Finance
Strategic Management

Global Business Management:

Advanced Strategy
AI & FinTech
Corporate Social Responsibility
Crisis Management
Customer Data Analysis
Ethically & Socially Responsible France
Global Human Resource Management
Integrating Online & Offline Marketing Communications
International Consumer Behavior

International Trade & Finance
Management of Change
Management Decision Tools
Marketing Research
Purchasing & Supply Chain
Retail Analytics
Strategic Management
Sustainable Supply Chain/Green Logistics

International Accounting, Management Control, Auditing:

Advanced Strategy
Corporate Governance
Corporate Sustainability Reporting
Financial Management & Business Advisory

International Financial Reporting
International Taxation
Management Control
Strategic Management

International Finance:

Advanced Strategy
AI & FinTech
Empirical Methods in Finance 2
Financial Engineering & Commodity Trading
International & EU Business Law

International Financial Regulation
Islamic Finance
Mergers & Acquisition: International Perspective
Short-term & Long-term Financing
Strategic Management

International Human Resource Management:

Advanced Strategy
Corporate Social Responsibility
e-HRM & Institutions
International Human Resource Management II

Management of Change
Next Organization
Simulations IHRM
Strategic Management

International Luxury & Brand Management:

Advanced Strategy
Advanced Brand Management
Corporate Design in the Luxury Industry
Corporate Social Responsibility

Luxury Retail & e-Commerce
Marketing Communication in the Luxury Industry
Marketing Research
Strategic Management

Negotiation & Business Development:

Advanced Strategy
B2B Marketing
Corporate Social Responsibility
International Business Law

Management of Int'l. Negotiation & Business Develop.
Sales Strategy & Management
Simulations in International Negotiation & Business Dev.
Strategic Management

Sports & Tourism Management:

Advanced Strategy
Corporate Design & Brand Identity in Sports & Tourism
CRM in Sports & Tourism
Events Management in Sports & Tourism Sector

Hospitality Management
International Sport Policies & Sport Organization Mgmt.
Legal Environment of Sports & Tourism Sector
Strategic Management

Strategic & Digital Marketing:

Advanced Strategy
Marketing Research
Corporate Social Responsibility
Customer Experience Management
Digital Marketing & Communication: Designing User
Experience & Web Analytics; Digital Advertising &
Communication; or Web Based Project Management

Strategic Marketing: International Marketing
Management; Marketing Intelligence & Pricing Strategy;
or Omni-Channel Distribution & Retail Management
Strategic Management

Supply Chain Management:

Advanced Strategy
Corporate Social Responsibility
Global Supply Chain & International Trade
Law & Contract Negotiation
Management of Distribution & Transportation
Production & Information Systems

Production Systems
Purchasing Management
Purchasing & Supply Chain
Sourcing & ePurchasing
Strategic Management
Supply Chain Risk Management

Aachen University of Applied Sciences - Aachen, Germany

FALL 2020 SEMESTER

Aerospace Engineering (Aachen campus)

Advanced Finite Element
Advanced Measurement & Control Systems
Advanced Project Management (Microsoft Project)
Advanced Space Propulsion
Aerospace Research Project
Aircraft Design II
Applied Computational Fluid Dynamics
Critical Thinking & the Scientific Method
Entrepreneurship
Flight Simulation Technology
Global Automotive Homologation & Mass Production
Introduction to the Aeroelasticity

Mathematical Optimization
Negotiation Strategies & Scientific Reasoning
Powertrain Calibration-Engine
Powertrain Calibration-Transmission
Propulsion System Integration
Space Mission Engineering
Space Utilization & Exploration Project
Transonic Aerodynamics
Vehicle Dynamics & Multi Body System Simulation
Vehicle Engineering – FEM-Simulation & Application
Vehicle Integration

Chemistry & Biotechnology

Business Administration
Fundamental Skills I
Medical Physics
Nuclear Chemistry I & II
Nuclear Chemistry & Radiation Biology

Nuclear Physics
Nuclear Physics & Radiation Detection
Nuclear Technology
Scientific Skills

Energy Technology (Jülich campus)

Advanced Control Systems
Aerosol Technology
Basics & Application of Chemical Reaction Theory
Business Administration
Energy Economics & Policy
Finite Element Methods
Industrial Energy Technology
Life Cycle Assessment

Modeling of Material Transport
Modeling of Systems & Processes
Power Plant Technology
Renewable Energies
Scenario Technology
Simulation & Optimization in Virtual Engineering
Stationary Application of Fuel Cells

Electrical Engineering & Information Technology

Control of Electrical Drives
Electromagnetic Simulation for Magnetic Resonance Imaging
Embedded Drive Design

Process Simulation & Control Design
Systems

Mechanical Engineering & Mechatronics (Aachen campus)

Advanced Control Technology	Fundamentals of Mechanical Engineering
Advanced Engineering Mathematics	Mathematical Optimization
Advanced Fabrication Technology	Mechatronic Systems Simulation
Advanced Motion Control	Micromechatronic Systems
CFD Applications	Sensors & Actuators
Fundamentals of Electrical Engineering	Virtual Reality & Graphical Simulation

Medical Engineering & Technomathematics (Jülich campus)

Artificial Organs I	Fluid Dynamics
Biosensors/Chemical Sensors	Laser Applications in Medicine & Biology
Cardiovascular Mechanics	Medical Imaging
Cellular & Molecular Biophysics I	Research Planning & Scientific Writing
Computational Fluid Dynamics (CFD)	Research Project I
Continuum Mechanics	

SPRING 2021 SEMESTER

Aerospace Engineering (Aachen campus)

Actuator Systems	Dynamics of Flight/Flight Control
Advanced Automotive Electronics	Engineering Meets Design
Advanced CAD Methods	Entrepreneurship
Advanced Control Technology	Environmental Effects of Aircraft Propulsion
Advanced Engineering Mathematics	Environmental Effects of Vehicle Powertrain
Advanced Project Management (Microsoft Project)	Hypersonic Aerodynamics & Atmospheric Entry
Advanced Space Dynamics	Introduction to the Aeroelasticity
Aerospace Research Project	Space Environment
Aircraft Design	Transonic Compressors and Turbines
The Art of Robotics	Vehicle Acoustics
Critical Thinking & the Scientific Method	Vehicle Engineering-FEM-Simulation & Application
Design of Electronic Powertrain Management Systems	

Business (Aachen campus)

Cross-Cultural Competencies	International Economics
Finance for Global Managers	International Supply Chain Management
Governance & Responsibility	Management of Sales & Services

Chemistry & Biotechnology

Fundamental Skills II	Nuclear Chemistry & Radiation Biology
Fundamentals of Engineering	Nuclear Physics & Radiation Detection
Management Skills	Study Project Nuclear Applications
Nuclear Applications	

Electrical Engineering & Information Technology

Functional Safety for Road Vehicles	Robot Programming with ROS
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Energy Technology (Jülich campus)

Advanced Wastewater Treatment
Applied Thermodynamics & Heat Transfer
Assessment of Energy Systems
CARNOT: Simulation Program for Solar Thermal Systems
Energy Engineering
Energy Seminar
Hydro Power
International Management I & II
Laboratory Network Model Smart Grid

Management Techniques for Engineers
Materials in Energy Systems
Mathematical Tools & Simulation
Nuclear Physics
Physics & Technology of Solar Cells & Modules
Simulation & Optimization in Virtual Engineering
Waste Incinerators
Waste Problems

Mechanical Engineering & Mechatronics (Aachen campus)

Advanced Control Technology
Automobile Electronic Systems

Computer Science
Industrial Communication

Medical Engineering & Technomathematics (Jülich campus)

Anatomy
Artificial Organs II
Biochemistry
Biomechanics
Cell Biology
Cellular & Molecular Biophysics II
Chemistry
Dynamic Systems & Computer Modeling
Electrical Engineering
Extracorporeal Cardiovascular Fluid Mechanics
Finite Element Method
Fluid Dynamics
Laser Technology

Material Sciences
Mathematics
Mechanics
Medical Measurement
Medical Physics
Molecular Biology & Genetics
Physics
Physics of Medical Imaging
Physiology
Research Project II
Written Project

Schmalkalden University of Applied Sciences – Schmalkalden, Germany

FALL 2020 SEMESTER

Business

Automotive Technology Management
Business in Hispanic America
Competition Policy & Regulation
Econometrics
Economic Philosophy
Industrial Economics
Institutional Economics
Intercultural Management
International & European Economic Law
International Financial Markets & Portfolio Selection
International Monetary Economics
Investment Appraisal

Labor Economics
Linear Regression in Economics & Business
Management Control Systems
Marketing Communications
Marketing Research
Organizational Behavior
Political Philosophy
Purchasing Strategy
Regional & Urban Economics
Strategic Brand Management
Strategic & International Human Resource Management

Computer Science

Agile Project Management
Computer Graphics
Distributed Systems
Image Processing & Compression Standards
Information Visualization

Selected Topics in Computer Graphics
Semantic Techniques in Distributed Systems
Signals & Systems
Software Quality
Text Mining & Search

SPRING 2021 SEMESTER

Business Law

Drafting of International Contracts & Conflict of Laws
European & International Recovery & Insolvency Law

International Financial Management

Computer Science

Big Data Technologies
Computational Intelligence
IT Security

Media Production I & II
Mobile Systems
Selected Chapters Functional Programming

Electrical Engineering

Communication Systems

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

FALL 2020 SEMESTER

Business

Applied Macro-Finance
Applied Microeconomics
Asset Pricing
Big Data Management
Corporate Financial Reporting
Digital Tools
Intermediate Econometrics

Intermediate Public Finance
Investments
Mathematics & Modelling for Economics & Finance
Microeconometrics
Research Seminar
Stochastic Calculus for Finance
Topics in Finance

SPRING 2021 SEMESTER

Business

Advanced Digital Tools
Behavioral Economics & Finance
Corporate Finance
Derivatives
Fixed Income Securities

Machine Learning & Data Mining
Research Seminar
Risk Modeling
Topics in Economics

ESERP Business School – Barcelona, Spain

FALL 2021 SEMESTER

Business

Branding
Commercial Management
Company Police and General Management
Economic Control and Optimization of Results
Financial Management
Global Marketing
Globalization and Internationalization of Markets

Legal and Tax Treatment of Managerial Activities
Product Strategy & Brand Positioning
Research and Marketing Science
Strategic and Operational Marketing
Strategies and Policies of Market Management
Supply Chain Management

SPRING 2022 SEMESTER

Business

Balanced Scorecard
Big Data
Digital Marketing
e-Commerce
Management Skills: Leadership & Motivation
Managerial Ethics and SCR

Negotiation and Conflict Resolution
Production Management, Operations & Logistics
Sales Force Management
Sales Forecast
Technological Innovation in Business

Valencia Polytechnic University – Valencia, Spain

FALL 2021 SEMESTER

Design Engineering

Advanced 3-D Sketching Techniques
Advanced Visualizations, Virtual Reality (Product Design)
Color Control for the Product

Course Outline Design & Accessibility
Graphic Design & Business Image
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 2021 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
Corporate Social Responsibility in Engineering
Energy Markets
Energy & Sustainable Development
Entrepreneurship & Innovation & Technology Mgmt.
Generation, Transmission & Distribution of Electric Power
Industrial Quality Control
Logistics & Supply Chain Processes
Mobile Robotics

Modeling & Simulation of Bioelectric Systems
Nanodiagnostics & Nanotherapy
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