Magellan Exchange

GRADUATE/MASTER Course Offerings in English

Last updated: 28 September 2024

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 2024 SEMESTER

Mechatronics

Advanced Finite Element Analysis Embedded Systems III

Applied Robotics Higher Mathematics III

Digitization of Production Sensor Systems

Directed Research Seminar

Sustainable Energy Systems

Advanced Finite Element Analysis Energy Transmission

Computer Applications Financing & Economic Viability

Critical Thinking Internet of Energy

Efficient Systems – Selected Chapters Project – Efficient Systems
Electrical Power Systems Project – Smart Buildings
Energy Markets & Trading Seminar Master Thesis

Energy Project – Business Plan Smart Buildings – Selected Topics

Spring 2025 SEMESTER

Business

Business Communication Leading Change & Transformation

Data Collection & Interpretation Multinational Organizations & Strategy

Digital Business Management Research Methods

Leadership Skills Lab Responsible Management

Computer Science

Applied Advanced Web Architectures & Software Design Evolutionary Algorithms & Optimization

Architectures & Security in Distributed Systems Parallel Computing & Concurrent Programming

Communication Systems Software Processes

Computer Vision Stream Processing Systems

Mechatronics

Creating Innovations & Solving Probs. w/Design Thinking

Digital World: Technology, Society & Ethics

Disruptive Technologies: Fundamentals, Applications, &

Opportunities

Human Rights in the Professional Context Introduction to Financial Markets – Overview Introduction to the Social & Solidarity Economy

Writing Lab: Creative Writing

Sustainable Energy Systems

Energy & Society Sustainability Management

Satakunta University of Applied Sciences - Rauma, Finland

FALL 2024 SEMESTER

Business

Contemporary Leadership Research Competence Innovation & Creativity Research Planning & Process

Leading Sustainability & Corporate Social Responsibility Strategy Work & Corporate Governance Managerial Finance Sustainable Marketing Management

SPRING 2025 SEMESTER

Business

Developing HR & Organizations Green Supply Chain Management

Research Planning & Process Strategic Management **Research Competence**

Rennes School of Business - Rennes, France

FALL 2024 SEMESTER

Some courses must be taken together. Please refer to the School's course list on their Magellan profile page for requirements regarding how courses need to be grouped.

Business – Level 5

AI & Marketing

Advanced Corporate Finance Exchange Markets Advanced Financial Modeling **Financial Theory**

Advanced Production Systems & Industry 4.0

AI & FinTech

Block Chain & Crypto Assets

Case Studies in Business Analytics, Ethics & Risk

Coding & Data Science for Finance Coding & Data Science for Finance

Consumer Behavior in a Sustainable Environment

Contemporary Brand Management

Contemporary Trends in the Luxury Industry Corporate Responsibility in the Luxury Industry Corporate Social Responsibility in Marketing

CRM Systems with AI Integration Data Driven Demand Planning

Data Science Toolbox

Decision Models for Supply Chain Planning Digital Advertising & Communication

Digital & Influencer Marketing in the Luxury Industry Digital Tools for Sales Management & Forecasting

Distribution & Transportation Management

Geopolitics & International business

Global Mindedness & Intercultural Intelligence

Global SC & International Trade Harnessing AI for Business

International Negotiation & Business Development

Inventory Management & Warehousing

Islamic Finance

Luxury Marketing Strategy

Managing Risks & International Business Law

Marketing of Innovation

Mergers & Acquisitions: an International Perspective

Natural Resource & Environmental Economics

Quantitative Finance

Sales Strategy & Management

Strategic Sourcing & Contract Negotiation

Strategy for Net Zero Sustainable Finance

Sustainable Supply Chain & Green Logistics Topics in Financial Economics with "R"

SPRING 2025 SEMESTER

Some courses must be taken together. Please refer to the School's course list on their Magellan profile page for requirements regarding how courses need to be grouped.

Business – Level 5

Advanced Brand Management

Advanced Digital PR & Corporate Communications

AI & FinTech

Big Data & Business Analytics

Critical Marketing

Database for Direct Marketing & e-CRM

Decision Science

Deep Learning in Neural Networks for Finance

Empirical Methods in Finance

Ethics & CSR in Finance

Ethics & Responsible Business Negotiations

Financial Data Infrastructure & Text Mining Financial Engineering & Commodity Trading

International Sourcing & Procurement

Management of Sales in the Luxury Industry

Omni-Channel Distribution & Retail Management

Omni-Channels in the Luxury Industry

Political Behavior of the Firm
Purchasing & Sales Management

D - + - : | A - - - | - + : - -

Retail Analytics

SC Project Management

Services Marketing

Simulations in International Negotiation & Business Dev.

Social Media Advertising Social Media Intelligence Strategy for Net Zero

Supply Chain Analytics & Digitalization Supply Chain Risk & Disaster Management

Sustainable Design & Brand Identity in Luxury Industry

Aachen University of Applied Sciences - Aachen, Germany

FALL 2024 SEMESTER

Aerospace Engineering (Aachen campus)

Advanced Finite Element Methods

Analysis & Sizing of Aircraft Structures

Climate Change Adaptation in Commercial Aviation

Climate Change Impact on Automotive Sector Critical Thinking & the Scientific Method

Electrified Vehicles Components Modeling

Exploration Mission Design

Flight Guidance & Navigation

Flight Simulation Technology

Global Automative Homologation & Attribute Mgmt

Intercultural Communication

Powertrain Calibration Propulsion Systems

Propulsion System Integration

Space Exploration Project

Space Operations & Services

Transformative Urban Mobility

Transonic Aerodynamics

Turbomachinery Design & Analysis

Vehicle Acoustics

Vehicle Interior: Simulation & Evaluation

Chemistry & Biotechnology (Jülich campus)

Business Administration

Fundamental Skills I

Medical Physics

Nuclear Chemistry

Nuclear Chemistry & Radiation Biology

Nuclear Physics

Nuclear Physics & Radiation Detection

Nuclear Technology

Scientific Skills

Electrical Engineering & Information Technology

Advanced Motion Control

Analog & Digital Control Technology

Cognitive Robotics

Data Science II

Electromagnetic Simulation

Embedded Drive Design

Mechanical Engineering & Mechatronics (Aachen campus)

Advanced Engineering Mathematics Fundamentals of Mechanical Engineering

Advanced Fabrication Technologies Mechatronic Systems Simulation

MEMS/Microtechnology **Advanced Motion Control**

Analog & Digital Control Technology Micromechatronic Systems **Application of Mechatronics Systems Sensors & Actuators**

Fundamentals of Electrical Engineering

SPRING 2024 SEMESTER

Aerospace Engineering (Aachen campus)

Environmental Impact of Vehicle Powertrain Aircraft Design

Automotive User Interface Design General Management of Automotive & Aerospace Supplies

Computational Spaceflight Dynamics Hydraulic & Electric Aircraft Systems

Design of Electronic Powertrain Management Systems Hypersonic Aerodynamics & Atmospheric Entry

Dynamics of Flight

Electronics for Autonomous Vehicle Mobile Systems

Engineering Meets Design

Environmental Effects of Aircraft Propulsion

Planets & Life

Space Systems & Payload Engineering Vehicle Structures: FEM & Testing

Business (Aachen campus)

Business Case Governance & Responsibility

Cross-Cultural Competences International Economics

Customer Integration International Supply Chain Management

Finance for Global Managers Management of Sales & Services

Chemistry & Biotechnology (Jülich campus)

Nuclear Applications Management Skills

Fundamentals of Engineering Nuclear Chemistry & Radiation Biology Fundamental Skills II **Nuclear Physics & Radiation Detection**

Electrical Engineering & Information Technology

Data Science I **Robot Programming with ROS**

Functional Safety for Road Vehicles

Mechanical Engineering & Mechatronics (Aachen campus)

Advanced Robotics & Autonomous Mobile Systems

Industrial Communication

ROS – Open Source Technologies in Robotics

Simulation of Structure, Fields & Flows

Systems Engineering

Schmalkalden University of Applied Sciences – Schmalkalden, Germany

FALL 2024 SEMESTER

Business, Economics, & Business Law

Digital Marketing International Monetary Economics

Digital Transformation & Data Value Investment Appraisal
Finance & Economics of Digital Markets Organizational Behavior
Financial Instruments Political Philosophy

Financial Markets Purchasing Strategy
International & European Economic Law Sustainable Finance

Computer Science

Computer Graphics Signals & System
Distributed Systems Web Applications

IT Security

SPRING 2024 SEMESTER

Business, Economics, & Business Law

Automotive Technology Management Management Control Systems

Behavioral Finance & Investments Philosophy of Science

Business Planning Strategic Brand Management

Economic Philosophy Strategic & International HR Management

Economics & Finance of Risk & Uncertainty Valuation & Financial Analysis

Labor Economics

Computer Science

Agile Software Development Mobile Systems

Computational Intelligence Service-Oriented Networks

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

FALL 2024 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 2025 SEMESTER

Business

Advanced Digital Tools

Applied Macro-Finance

Behavioral Economics & Finance

Business Analytics & Decision Making Using Data

Business Econometrics & Data Analysis

Corporate Finance

Derivatives

Digitalization & Taxation

Digital Marketing

E-Commerce

Ethical Issues in Tax Practice

EU Company Law

EU Tax Law

Fixed Income Securities

Growth Theory & Economic Policy Intermediate Labor Economics Intermediate Macroeconomics Intermediate Strategic Marketing

International Tax Planning IT Project Management

Machine Learning & Data Mining Policy Analysis & Impact Evaluation

Research Seminar Risk Modeling

Taxation of Wealth & Financial Services

Topics in Economics