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STUDY PERIODS

1A: 2009-08-31 – 2009-10-04
1B: 2009-10-05 – 2009-11-01

2A: 2009-11-02 – 2009-11-29
2B: 2009-11-30 – 2010-01-17

3A: 2010-01-18 – 2010-02-21
3B: 2010-02-22 – 2010-03-28

4A: 2010-03-29 – 2010-05-02
4B: 2010-05-03 – 2010-06-06

STUDY PERIOD 1 AND 2

FALL SEMESTER WS

STUDY PERIODS

1A: 2009-08-31 – 2009-10-04
1B: 2009-10-05 – 2009-11-01

2A: 2009-11-02 – 2009-11-29
2B: 2009-11-30 – 2010-01-17

3A: 2010-01-18 – 2010-02-21
3B: 2010-02-22 – 2010-03-28

4A: 2010-03-29 – 2010-05-02
4B: 2010-05-03 – 2010-06-06

BUSINESS ADMINISTRATION

Cost and Management Accounting I

CODE: EFO022
CREDITS: 7,5
LECTURE HOURS: 30
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level First Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Oral/Written examinations
PREREQUISITES: 7,5 credits Financial accounting
COURSE CONTENT: The course includes
 - How costs should be accumulated for inventory valuation and profit measurement
 - Principles and methods for measuring relevant costs and revenues for decision-making (i.e. cost-volume-profit analysis and capital investment models)
 - Information for planning and control (i.e. the budgeting process)
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Cost and Management Accounting II

CODE: EFO023
CREDITS: 7,5
LECTURE HOURS: 30
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Second Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Oral/Written examinations
PREREQUISITES: 15 credits Financial and management accounting.
COURSE CONTENT: In the course Cost and Management Accounting II you will study how the accounting manager use cost accumulation systems for inventory valuation and profit measurement. You will also study tools for pricing, capital investment decisions, cost management and standard costing systems.
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Financial Accounting I

CODE: EFO021
CREDITS: 7,5
LECTURE HOURS: 30
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level First Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: Mathematics from three years of upper secondary school or equivalent.
COURSE CONTENT: The course includes
 - Accounting as the language of business
 - The double entry accounting system - rules and use
 - How to work with and use financial statements in practice and related to different international general accounting principles (i.e. the income statement, the balance sheet and the statement of cash flow)
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology.

Financial Accounting II

CODE: EFO024
CREDITS: 7,5
LECTURE HOURS: 30
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Second Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Project, Oral/Written examinations
PREREQUISITES: 15 credits Financial and management accounting.
COURSE CONTENT: The content of the course covers central concepts, models and practices in financial accounting. The course also comprise of practical examples and cases in a European business context highlighting approaches to and logics of financial reporting and as an integral part of decision making and corporate governance.
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Global and Local Marketing Strategies

CODE: EFO216
CREDITS: 7,5
LECTURE HOURS: 40
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: A bachelor's degree from an institution of higher education of three years or more, equivalent to at least 180 credits in Business Administration, Social Science or Technology; or at least 90 credits in Business Administration of which at least 30 credits on Basic Level Third Year.

COURSE CONTENT:

- A broad view of the international company and its domestic and foreign environment.
- Marketing in a global strategy.
- Managing global and local marketing strategies.
- Organising international operations.
- Marketing of a multinational company.
- Competition and strategy on the local market.

CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

International Business - some theoretical perspectives

CODE: EFO510
CREDITS: 15
LECTURE HOURS: 60
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Full time
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Written examinations
PREREQUISITES: A bachelor's degree from an institution of higher education of three years or more, equivalent to at least 180 credits in Business Administration, Social Science or Technology; or at least 90 credits in Business Administration of which at least 30 credits on Basic Level Third Year.
COURSE CONTENT: International business has been studied from different theoretical perspectives. The course "International Business - some theoretical perspectives" directs attention to a few of those perspectives, while considering assumptions made and theories/models developed. The appropriateness of the different theoretical perspectives in relation to various aspects of the phenomenon of international business is discussed.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

International Finance

CODE: EFO012
CREDITS: 15
LECTURE HOURS: 40
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Full time
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Seminars, Exercise
PREREQUISITES: At least 90 credits in Business Administration of which at least 30 credits on Basic Level Third Year
COURSE CONTENT: The first part of the course covers the theoretical aspects of the global financial environment, including foreign exchange theory and strategies related to foreign direct investments and the international monetary system. The second part examines financial strategies at the level of the firm, including accounting aspects, capital sourcing, foreign direct investment decisions, the assessment and management of political risk, multinational taxation and cross-border acquisitions and mergers.
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

International Marketing

CODE: EFO253
CREDITS: 15
LECTURE HOURS: 60
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Full time
LEVEL OF EDUCATION: Basic Level Third Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/written examinations
PREREQUISITES: Business administration 60 credits (at least 45 credits finished when the course starts). At least 20 credits in Business Administration have to be on Basic Level Second Year.
COURSE CONTENT: The first part of the course gives an international and a cultural perspective on management and marketing where we discuss and analyze the political, economical, cultural and technological environment. We also take into consideration how the state and surrounding business life have an effect on a company. One part of the course is to create models to solve marketing problems in an international environment. The second part of the course is to critically apply the collected information from different learning activities that relates to the practical skills you need as a marketer in different international contexts. The tasks will be based on case studies where different companies' marketing strategies are explored and analyzed thoroughly. One important part is to provide skills in analyzing scientific articles and also to increase the ability to perform presentations in oral and writing. One important element is the practice of communicative abilities and letting the student develop the ability to connect theories and models with practical tasks for his/her future working career.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

STUDY PERIODS

1A: 2009-08-31 - 2009-10-04
 1B: 2009-10-05 - 2009-11-01

2A: 2009-11-02 - 2009-11-29
 2B: 2009-11-30 - 2010-01-17

3A: 2010-01-18 - 2010-02-21
 3B: 2010-02-22 - 2010-03-28

4A: 2010-03-29 - 2010-05-02
 4B: 2010-05-03 - 2010-06-08

Introduction to Management and Research Methods

CODE: EFO249
CREDITS: 15 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Full time **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Oral/Written examinations
PREREQUISITES: A bachelor's degree from an institution of higher education of three years or more, equivalent to at least 180 credits in Business Administration, Social Science or Technology; or at least 90 credits in Business Administration of which at least 30 credits on Basic Level Third Year.
COURSE CONTENT: - An introduction to management theory;
 - Overview of available and relevant research methods;
 - Using research models to support decision making in organizations.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Marketing Basics

CODE: EFO252
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level First Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Oral/Written examinations
PREREQUISITES: Mathematics from three years of upper secondary school or equivalent.
COURSE CONTENT: The course will provide knowledge about theories, models and concepts within Marketing. We will also try to give insights in essential concepts in marketing such as: Marketing mix, promotion mix, segmentation, customer satisfaction, differentiation, positioning, value, strategies in different stages in the product life cycle, strategies for products and brands, characteristics of services, industrial products, pricing, distribution, promotional activities etc. The course will introduce the students into understanding and solving marketing problems and situations.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Marketing Issues in an International Context

CODE: EFO215
CREDITS: 7,5 **LECTURE HOURS:** 40
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Oral/written examinations
PREREQUISITES: A Bachelor's degree from an institution of higher education of three years or more, equivalent to at least 180 credits in Business Administration, Social Science or Technology; or at least 90 credits in Business Administration of which at least 30 credits on Basic Level Third Year.
COURSE CONTENT:
 - An international and cultural perspective on management and marketing.
 - Discuss and analyse the legal and political international environment; the economic environment; economic regions; the cultural and technological environment, and; government and business.
 - Means of internationalisation.
 - Building models to solve marketing problems in an international context.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Marketing of Services

CODE: EFO211
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1b
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Second Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Oral/Written examinations
PREREQUISITES: 30 credits in Business Administration
COURSE CONTENT:
 - definitions of services and service quality
 - development and construction of services
 - marketing models in the marketing of services
 - service quality from a customer and an employee perspective
 - managing service quality
 During the course the students will both study literature and make empirical investigations of how companies deal with service marketing.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Nordic Perspectives on Marketing and Management

CODE: EFO209
CREDITS: 15 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Full time **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Case Analyses, Oral/Written examinations
PREREQUISITES: Business administration 60 credits (at least 45 credits finished when the course starts). At least 20 credits in Business Administration have to be on Basic Level Second Year.
COURSE CONTENT:
 - Management and marketing in Swedish and Nordic enterprises from a global and cultural perspective
 - An international and cultural perspective on management and marketing to Sweden and Nordic Countries.
 - Renewal of the marketing mix for consumer goods
 - Definitions of services and service quality
 - Service quality from a customer and an employee perspective
 - Internal marketing and moment of truth
 - Relationship marketing
 - Relationships as a marketing tool
 - Various ways in which an industrial enterprise can handle decision processes in its marketing implementation
 - Various ways in which an industrial enterprise can handle relations with different types of customer enterprises.
 - Variations in customer and supplier relations as regards to production technology and type of product.
 - Problems in the evaluation of relations in industrial markets and how to handle them in the short and long term.
 - Factors of influence and dynamic networks as regards to different technologies and types of products will be defined and evaluated.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Organization Basics

CODE: EFO523
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level First Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Case work, Examination
PREREQUISITES: Mathematics from three years of upper secondary school or equivalent.
COURSE CONTENT: The course will provide knowledge about different companies' business activities from the perspective of Organizational Theory. We will also look at essential concepts within Organizational Theory such as: structure, design, culture, change, the environment and its effects on strategy and structure, technology, organizational life cycle processes, decisions, change processes etc. The course also contains general principles in case writing and how case works in Business Administration can be structured.
CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

CARING SCIENCE

Caring from a Cultural Perspective- Clinical Studies

CODE: OVA045
CREDITS: 7,5 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1, 3
STUDY PACE: Full time **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise
PREREQUISITES: Caring Sciences 30 credits on level 100 and 30 credits on level 200 or equivalent.
COURSE CONTENT: The aim of the studies are that students shall enhance their knowledge and skills concerning the caring from a cultural perspective.
CONTACT PERSON: Lillemor Fernqvist, lillemor.fernqvist@mdh.se
SCHOOL: School of Health, Care and Social Welfare

Cultural Perspectives in Health and Care

CODE: OVA004
CREDITS: 7,5 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 25% **LEVEL OF EDUCATION:** Basic Level First Year
LOCATION: Eskilstuna **LANGUAGE:** English
EXAMINATION: Oral/written examinations

STUDY PERIODS

1A: 2009-08-31 – 2009-10-04
1B: 2009-10-05 – 2009-11-01

2 A: 2009-11-02 – 2009-11-29
2 B: 2009-11-30 – 2010-01-17

3 A: 2010-01-18 – 2010-02-21
3 B: 2010-02-22 – 2010-03-28

4 A: 2010-03-29 – 2010-05-02
4 B: 2010-05-03 – 2010-06-06

PREREQUISITES: Three years of upper secondary school or equivalent.
COURSE CONTENT: The aim of the course is for students to acquire basic knowledge about cultural perspective of health and caring.
CONTACT PERSON: Ing-Marie Backman, ing-marie.backman@mdh.se
SCHOOL: School of Health, Care and Social Welfare

Phenomenological Writing

CODE: OVA070
CREDITS: 7,5
LECTURE HOURS: 50
LABORATORY HOURS: 0
START PERIOD: 1b
STUDY PACE: Part time 25%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise
PREREQUISITES: Bachelor of Science
COURSE CONTENT: This course comprise of description and critical analyses of phenomenological writing in various contexts. Included are also comparisons and critical analyses of different ways to structure phenomenological writing. You will furthermore focus on integrating phenomenological writing with results in order to reach trustworthiness to the phenomenological methods through presentation.
CONTACT PERSON: Lillemor Fernqvist, lillemor.fernqvist@mdh.se
SCHOOL: School of Health, Care and Social Welfare

Thesis in Caring Science

CODE: OVA018
CREDITS: 15
LECTURE HOURS: 100
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Full time
LEVEL OF EDUCATION: Basic Level Third Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Thesis
PREREQUISITES: Caring Sciences 30 credits on Basic level First Year and 30 credits on Basic Level Second Year or equivalent.
COURSE CONTENT: The aim of the course is to enable students to intensify and apply their knowledge of caring science and scientific methods. Students are to undertake an independent project and also present an oral and written account of their results in a paper.
CONTACT PERSON: Lillemor Fernqvist, lillemor.fernqvist@mdh.se
SCHOOL: School of Health, Care and Social Welfare

COMPUTER SCIENCE

Advanced Software Engineering

CODE: CDT413
CREDITS: 7,5
LECTURE HOURS: 50
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Laboratory work, Seminar
PREREQUISITES: At least 120 credits of higher education where at least 60 credits are in the area of computer science where at least 15 credits is about foundations in Software Engineering.
COURSE CONTENT:
 Software development methods
 - iterative software development
 - agile software development
 - formal methods
 - software process models, standards, and certification
 Software engineering research
 - empirical investigations and validity
 - experiments and surveys
 - case studies
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Artificial Intelligence

CODE: CDT312
CREDITS: 7,5
LECTURE HOURS: 10
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Third Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations, Exercise, Laboratory work
PREREQUISITES: Mathematics from three years of upper secondary school with science profile. Practical and theoretical competences in
 * Datastructures and algorithms
 * Object oriented programming (like C, C++ or java)
 * At least one additional course with a programming project that has "data structures and algorithms" as a prerequisite. Examples to such courses are "Operating systems" and "Functional programming".

COURSE CONTENT:
 - Representation of information using trees, logics, STRIPS, etc.
 - Search algorithms: breath-first, depth-first, iterative deepening, informed search.
 Reasoning using logics. Planning. Introduction to learning.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Computer Graphics: Advanced Rendering

CODE: CDT313
CREDITS: 7,5
LECTURE HOURS: 50
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Third Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Laboratory work, Oral/Written examinations
PREREQUISITES: Mathematics from three years of upper secondary school with science profile. Theoretical knowledge and practical competence in:
 - Programming in a high level language (for example C, C++ or java)
 - Datastructures and algorithms
 - Algebra (matrix operations and manipulation)
 - Calculus is desirable but not a requirement
COURSE CONTENT: affine transformations, homogeneous coordinates, sammansatta transformations, viewing, projection, rendering pipeline, phong lighting and shading, back face culling and hidden surfaces elimination, clipping, texture mapping, mip-mapping, bump mapping, environment mapping, graphics hardware, vertex shaders, fragment shaders, OpenGL, OpenGL Shading Language, color, BRDFs, anisotropic shading, shadows, global illumination, ray tracing, radiosity, caustics, photon mapping.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Computers and Philosophy

CODE: CDT415
CREDITS: 7,5
LECTURE HOURS: 10
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: At least 150 credits from an institution of higher education.
COURSE CONTENT: Information; Philosophical foundations of Computing, Computer Science Philosophy, AI; Mind including selected topics from Cognitive Science; Real and Virtual; Modeling and Simulation; Computers and Art and Ethics. The course objective is to give the advanced undergraduates and graduate students in different disciplines insights into the broad philosophical significance of computing and information as tools of production and communication of information and knowledge. We study the question of the nature and philosophical grounds of information and of computing as information processing, address the basic questions of scientific foundations of the research area, its research methodology, applications and the value system - within the framework of the emerging research field of Philosophy of Computing and Information. The course is designed as a combination of a series of seminars based on the lectures by eminent guest lecturers and distance study. It presents an international collaboration between several European and American universities. The course international settings will give the participants a unique opportunity to communicate with our lecturers who are leading experts in their fields as well as to exchange ideas with colleagues from other universities in several countries. Lectures are combined with on-line and off-line discussions. The time between meetings is used for self study and writing.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Distributed Software Development

CODE: CDT402
CREDITS: 7,5
LECTURE HOURS: 10
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 25%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Project
PREREQUISITES: At least 120 credits of higher education where at least 90 credits are in the area of computer science where at least 7,5 credits is about Java, C++ or another object-oriented language.
COURSE CONTENT: The course contains of lectures (standard and invited) and project. The lectures include the following topics:
 - Introduction to distributed software development
 - Distributed development projects
 - Designing distributed applications
 The project assignments are given to distributed group of students. Different projects are defined. They are related to distributed, web-based development.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

STUDY PERIODS

1A: 2009-08-31 – 2009-10-04
 1B: 2009-10-05 – 2009-11-01

2 A: 2009-11-02 – 2009-11-29
 2 B: 2009-11-30 – 2010-01-17

3 A: 2010-01-18 – 2010-02-21
 3 B: 2010-02-22 – 2010-03-28

4 A: 2010-03-29 – 2010-05-02
 4 B: 2010-05-03 – 2010-06-08

Foundations of Software Engineering

CODE: CDT310
CREDITS: 15 **LECTURE HOURS:** 150
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Laboratory work, Project, Written examination
PREREQUISITES: Mathematics from three years of upper secondary school with science profile. Also programming skills in an object-oriented language plus further experience in programming and simple software design are required. Basic skills of solving non-trivial, open problems in pairs and small groups are also required. The programming and design skills, if acquired through university courses, corresponds to courses in programming of 15 credits (typically languages like C, C++, Java) and data structures and algorithms plus other computer science courses at progression Basic Level Second Year or higher of 15 credits.
COURSE CONTENT: Main disciplines of Software Engineering are introduced: development models, requirements engineering, software design and implementation, quality assurance, configuration management, maintenance, evolution and reengineering. This includes being introduced to graphical and textual notations that exist in these disciplines.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Game Development - project course

CODE: CDT311
CREDITS: 15 **LECTURE HOURS:** 10
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Laboratory work, Project, Oral/Written examinations
PREREQUISITES: Mathematics from three years of upper secondary school with science profile. Theoretical knowledge and practical competence in:
 - Datastructures and algorithms
 - Knowledge in the fundamentals in an Object oriented language like C++ or Java
 - advanced programming of 3D computer graphics in OpenGL
COURSE CONTENT: Main disciplines of Software Engineering are introduced: development models, requirements engineering, software design and implementation, quality assurance, configuration management, maintenance, evolution and reengineering. This includes an introduction to graphical and textual notations that exist in these disciplines.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Industrial System Development

CODE: CDT417
CREDITS: 7,5 **LECTURE HOURS:** 10
LABORATORY HOURS: 0 **START PERIOD:** 1b
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Participation, Project, Seminar
PREREQUISITES: At least 60 hp in computer science, the knowledge obtained in Foundations of Software Engineering course CDT310 and Game Development - project course CDT311 or corresponding.
COURSE CONTENT: The aim of the course is to give an overview of different domains of industrial systems and their development strategies and tools. In addition to this, an in-depth study is performed on one particular system. This includes practice in handling the system, writing and verifying a piece of software using real industrial environments.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Learning Systems

CODE: CDT407
CREDITS: 7,5 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Laboratory work, Oral/Written examinations
PREREQUISITES: At least 120 credits where theoretical and practical competences in datastructures and algorithms and an object-oriented language like C, C++ or Java are included.
COURSE CONTENT: Artificial neural nets; evolutionary algorithms; reinforcement learning; Bayesian nets; case-based reasoning; clustering and fuzzy systems.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Professional Ethics

CODE: CDT409
CREDITS: 7,5 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Seminar
PREREQUISITES: At least 150 credits from an institution of higher education.
COURSE CONTENT: Topics covered will include philosophical foundations of Ethics, critical thinking with analysis of case-studies relevant for a given profession, and exercises in communication skills through written and spoken ethical arguments. Through roll play participants will test different ethical perspectives and even exchange pro- and contra outlooks in the argument. Invited guest lectures
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Real-Time Systems I

CODE: CDT315
CREDITS: 7,5 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Laboratory work, Oral/Written examinations
PREREQUISITES: Mathematics from three years of upper secondary school with science profile. Also theoretical knowledge and practical competences in programming in C, data structures and algorithms and operating systems are required.
COURSE CONTENT: The course gives an insight into how real-time systems differ from traditional computer systems, covering the topics such as timeliness, real-time scheduling, operating system support, resource usage, design of real-time systems, real-time communication and distributed real-time applications. Furthermore, it explains how these theories can be applied when implementing and analysing such systems or real hardware platforms; case-based reasoning; clustering and fuzzy systems.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Real-Time Systems II

CODE: CDT505
CREDITS: 7,5 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Laboratory work, Seminar
PREREQUISITES: At least 120 credits where theoretical knowledge and practical competence in the fundamentals of computer based real time systems (that is competences in scheduling, implementation of RT applications by using RTOS functionality, designing safety critical systems and time and event driven process communication) is included.
COURSE CONTENT: Worst Case Execution Time (WCET) analysis (analysis of worst case execution time of a computer program), advanced scheduling algorithms and response time analysis, real-time databases, model based development, Quality of Service (QoS) for non-hard real-time systems, distributed real-time systems.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Research Methods in the Natural Sciences and Engineering

CODE: CDT403
CREDITS: 7,5 **LECTURE HOURS:** 10
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Participation, Seminar
PREREQUISITES: At least 150 credits in the technical or natural sciences areas.
COURSE CONTENT: - Science theory (continuation).
 - History of science.
 - Basic research methodology within natural sciences and technology.
 - Research methodology for computer science and engineering.
 - Research education, the research society and research policy.
 - Searching for scientific papers.
 - Writing and presentation of a scientific paper.
 - Review and opposition of scientific papers.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

STUDY PERIODS

1A: 2009-08-31 - 2009-10-04
 1B: 2009-10-05 - 2009-11-01

2 A: 2009-11-02 - 2009-11-29
 2 B: 2009-11-30 - 2010-01-17

3 A: 2010-01-18 - 2010-02-21
 3 B: 2010-02-22 - 2010-03-28

4 A: 2010-03-29 - 2010-05-02
 4 B: 2010-05-03 - 2010-06-06

Software Verification and Validation

CODE: CDT414
CREDITS: 7,5
LECTURE HOURS: 50
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Seminar
PREREQUISITES: At least 120 credits, out of which at least 60 should be from computer science, computer engineering or corresponding subjects. A course in software engineering basics or equivalent is required.
COURSE CONTENT: The focus of this course will be on software testing. A variety of test techniques will be covered along with applicability aspects as well as the bindings on software reliability modeling.
 The course includes:
 - Introduction to Software Verification and Validation
 - Software Testing overview and classifications
 - Functional(black box) testing
 - Structural (white box) testing
 - Integration testing
 - Mutation testing
 - Model-based testing and Test case generation
 - Software reliability modeling together with bindings on testing
 - Overview of testing process, testing tools and test automation
 The contents will reflect the latest research topics as well as industrial practices. Guest lectures by industrial experts will be the highlight of this course.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

ECONOMICS

Corporate Finance

CODE: NAA201
CREDITS: 7,5
LECTURE HOURS: 35
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Second Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: Economics 30 credits; or Business Administration 30 credits, of which at least 7,5 credits in financial or management accounting. At least 15 credits in Economics must be finished when the course starts.
COURSE CONTENT: The course starts with the basic ideas on time value of money, and compares Net Present Value and other Investment criteria, usually applied to select various projects. It continues with the classical investment rules under no risk and applies the time value of money to find optimal prices for both bonds and stocks. It then progresses to modern theory of investment by exploring the risk/return relationship, mainly through the Capital Assets Pricing Model. It continues with the Cost of capital and the firms optimal capital structure, the effects of financial leverage and dividends under various taxes. It covers the basics of options, and how to use them to hedge various risks. Finally it discusses international investments.
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Intermediate Microeconomics

CODE: NAA200
CREDITS: 7,5
LECTURE HOURS: 35
LABORATORY HOURS: 0
START PERIOD: 1
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Second Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: 30 credits in Economics
COURSE CONTENT: Consumer preferences, utility, consumer choice, consumer and market demand, firm behavior, profits, costs, firm and market supply, determination of prices and quantities in market equilibrium, factor markets, and general equilibrium. Compared to the introductory Microeconomics course, these topics are explored in a more formal way, using mathematical analysis. In addition, a selection of other relevant topics such as inter-temporal choice, choice under uncertainty and risk, game theory, monopoly, oligopoly, welfare, and externalities will be covered
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Investment Theory

CODE: NAA202
CREDITS: 7,5
LECTURE HOURS: 35
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Second Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: Economics 30 credits; or Business Administration 30 credits, of which

at least 7,5 credits in financial or management accounting. At least 15 credits in Economics must be finished when the course starts.

COURSE CONTENT: The course covers extensively the Modern Portfolio Theory, using both the Capital Asset Pricing Model (CAPM) and the Arbitrage Pricing Theory (APT). It also covers some topics on bonds, like the yield curve, duration, convexity, active and passive bond-management strategies and the valuation of stocks for normal and super-growth firms. With respect to the financial derivatives, the course covers the pricing of forwards, futures, swaps and options and how to use them as well in order to hedge various risks. Finally, it covers the performance indices and the style analysis in portfolios.

CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

Labor Economics

CODE: NAA203
CREDITS: 7,5
LECTURE HOURS: 35
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Basic Level Second Year
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Oral/Written examinations
PREREQUISITES: 30 credits in Economics (at least 15 credits finished when the course starts).
COURSE CONTENT: Labor supply and demand is studied, with applications to labor market participation, employment and working hours. A flow perspective of the labor market is applied to the analysis of job creation and destruction, job search and the matching of workers with vacant jobs. Various theories of wage determination are studied, e.g. compensating differences, human capital, and individual and centralized wage bargaining. The determinants of unemployment are treated from the perspectives of labor market friction, as in the theory of search and matching, and of wage formation, as in the theories of unions and efficiency wages. These theories are applied to questions of labor market policy.
CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

ELECTRONICS

Sensor Technique

CODE: CEL401
CREDITS: 7,5
LECTURE HOURS: 50
LABORATORY HOURS: 0
START PERIOD: 2
STUDY PACE: Part time 50%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Exercise, Laboratory work, Project, Oral/Written examinations
PREREQUISITES: At least 120 credits where theoretical knowledge and practical competences in algebra, calculus, analog electronics and measuring techniques are included.
COURSE CONTENT: In the course the physical principles and properties of different types of actuators and the methods for measuring parameters as i.e. temperature, flow, and pressure are dealt with.
CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Project course in electronics

CODE: ELA001
CREDITS: 7,5
LECTURE HOURS: 0
LABORATORY HOURS: 0
START PERIOD: 1, 2
STUDY PACE: Part time, 50%
LEVEL OF EDUCATION: Basic level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Project implementation, documentation and presentation
PREREQUISITES: 90 credits where at least 40 credits within the subject electronics
COURSE CONTENT: The course content will be planned together with the teacher.
CONTACT PERSON: Magnus Otterskog, magnus.otterskog@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Project course in electronics

CODE: CEL406
CREDITS: 7,5
LECTURE HOURS: 0
LABORATORY HOURS: 0
START PERIOD: 1, 2
STUDY PACE: Part time, 50%
LEVEL OF EDUCATION: Advanced level
LOCATION: Västerås
LANGUAGE: English
EXAMINATION: Project implementation, documentation and presentation
PREREQUISITES: At least 150 credits from an institution of higher education
COURSE CONTENT: The course will cover different areas within electronics and the course content can vary between course instances. The project course is organized together with the teacher and the students, giving a possibility for students to deepen their knowledge in a specific area which is relevant for their education.
CONTACT PERSON: Magnus Otterskog, magnus.otterskog@mdh.se
SCHOOL: School of Innovation, Design and Engineering

STUDY PERIODS

1 A: 2009-08-31 – 2009-10-04
 1 B: 2009-10-05 – 2009-11-01

2 A: 2009-11-02 – 2009-11-29
 2 B: 2009-11-30 – 2010-01-17

3 A: 2010-01-18 – 2010-02-21
 3 B: 2010-02-22 – 2010-03-28

4 A: 2010-03-29 – 2010-05-02
 4 B: 2010-05-03 – 2010-06-06

ENERGY ENGINEERING

Heat and Power Technology basic course

CODE: WER009
CREDITS: 15
LABORATORY HOURS: 0,
STUDY PACE: Part time 50%
LOCATION: Västerås
LECTURE HOURS: 40
START PERIOD: 1
LEVEL OF EDUCATION: Basic Level Third Year
LANGUAGE: English
EXAMINATION: Exercise, Laboratory work, Oral/Written examinations
PREREQUISITES: Basic courses in Thermodynamics, Mechanics of fluids and Heat transfer or equivalent are required.
COURSE CONTENT: In this course the theory of different methods of producing heat and power are discussed. Cogeneration or combined production of heat for a district heating system and electricity is a Scandinavian speciality and is given great attention in the course. We talk about steam power plants and gas turbines and the important components which these consist of. We make calculations of the efficiency and the power output. Also calculations on different heat exchangers in a boiler are performed as well as a more detailed study of the velocities and the power transmission in a turbomachine (turbine or compressor). A part of the course treats the economical aspects when choosing a suitable power plant. A part of the course pays attention to nuclear power technology. Physical theory and construction of different types of nuclear reactors is included.
CONTACT PERSON: Benny Ekman, benny.ekman@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Solar Cells and Solar Collectors

CODE: WER036
CREDITS: 7,5
LABORATORY HOURS: 0
STUDY PACE: Part time 50%
LOCATION: Västerås
LECTURE HOURS: 40
START PERIOD: 2
LEVEL OF EDUCATION: Advanced level
LANGUAGE: English
EXAMINATION: Project works, Oral/Written examinations
PREREQUISITES: At least 100 credits from an engineering program where Heat and Mass Transfer 7,5 credits and Mathematics at University level 15 credits are included.
COURSE CONTENT: The course deals with the use of energy from the sun. Construction and working principles of solar cells and solar collectors are included as well as examples on practical applications of the technology.
CONTACT PERSON: Benny Ekman, benny.ekman@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Thermal Engineering

CODE: WER015
CREDITS: 15
LABORATORY HOURS: 0
STUDY PACE: Part time 50%
LOCATION: Västerås
LECTURE HOURS: 40
START PERIOD: 1
LEVEL OF EDUCATION: Advanced level
LANGUAGE: English
EXAMINATION: Exercise, Laboratory work, Literature exercise
PREREQUISITES: At least 120 credits in the technical or natural sciences areas where Heat and Power Technology 15 credits and Combustion engineering 7,5 credits are included.
COURSE CONTENT: In this course, 4 close-to reality problems are solved with help of knowledge from the applied energy courses. The exercises are quite open from the beginning and they have to be analysed and specified before they can be solved. The solution needs computers and programs as help. In the course there will be two laboratory works included. The first laboratory work is a test of a simple heat-and power plant with the same rules and standards that are used at big heat-and power plants. In the second laboratory work a number of operation situations will be analysed in a simulator.
CONTACT PERSON: Benny Ekman, benny.ekman@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

Windpower and Hydropower

CODE: WER034
CREDITS: 7,5
LABORATORY HOURS: 0
STUDY PACE: Part time 50%
LOCATION: Västerås
LECTURE HOURS: 40
START PERIOD: 1
LEVEL OF EDUCATION: Advanced level
LANGUAGE: English
EXAMINATION: Project, Oral/Written examinations
PREREQUISITES: At least 100 credits from an engineering program where Mechanics of Fluids 7,5 credits and Mathematics at University level 15 credits are included.
COURSE CONTENT: The whole chain from metrological data, aero-dynamics for the wings, construction of power plants towards consequences for the environment and economical profit is treated.
CONTACT PERSON: Benny Ekman, benny.ekman@mdh.se
SCHOOL: School of Sustainable Development of Society and Technology

ENGLISH

Culture and Society in Great Britain

CODE: HEN130
CREDITS: 7,5
LABORATORY HOURS: 0
STUDY PACE: Part time 25%
LOCATION: Västerås
LECTURE HOURS: 30
START PERIOD: 1
LEVEL OF EDUCATION: Basic Level First Year
LANGUAGE: English
EXAMINATION: Home examination, Preparation for and active participation in scheduled activities, Written assignment and ventilation
PREREQUISITES: English B is required for Swedish students.
COURSE CONTENT: This course explores significant social and cultural topics in contemporary Britain. The language of instruction is English, offering opportunities for participants to develop their spoken and written competence in English.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

Detective Fiction in English: An Historical Overview

CODE: HEN105
CREDITS: 7,5
LABORATORY HOURS: 0
STUDY PACE: Part time 25%
LOCATION: Västerås
LECTURE HOURS: 30
START PERIOD: 2
LEVEL OF EDUCATION: Basic Level First Year
LANGUAGE: English
EXAMINATION: Written assignments, Open-book exam and Vocabulary test on WebCT
PREREQUISITES: Three year of upper secondary school or equivalent.
COURSE CONTENT: Detective Fiction in English is designed for students who want to extend their English vocabulary and practise English proficiency through the reading, listening to and writing about English and American detective fiction in various media. The course also gives an overview of the history and characteristics of the genre.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 1

CODE: HEN100
CREDITS: 30
LABORATORY HOURS: 0
STUDY PACE: Full time
LOCATION: Västerås, Eskilstuna
LECTURE HOURS: 120
START PERIOD: 1
LEVEL OF EDUCATION: Basic Level First Year
LANGUAGE: English
EXAMINATION: Spoken and written assignments, Pronunciation, Final exam, Assessment of optional course component
PREREQUISITES: English B is required for Swedish students.
COURSE CONTENT: This course offers an introduction to English Studies. If you plan to continue in the subject, English 1 will give you the foundation for your future studies. If you want to include a single term of English in your degree, this course will give you a good overview of the subject, as well as the chance to improve your English language skills.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 1, Language in context 1

CODE: HEN103
CREDITS: 15
LABORATORY HOURS: 0
STUDY PACE: Part time 50%
LOCATION: Västerås, Eskilstuna
LECTURE HOURS: 60
START PERIOD: 1
LEVEL OF EDUCATION: Basic Level First Year
LANGUAGE: English
EXAMINATION: Spoken and written assignments, Pronunciation, Preparation for and participation in course activities, Final exam, Final examination of optional course component
PREREQUISITES: English B is required for Swedish students.
COURSE CONTENT: In this course you will get an opportunity to improve your English by using English to communicate within a context. You will practice communication skills such as public speaking, debating and essay writing, and at the same time learn more about key features of contemporary British and American society. Assessment is by way of spoken and written assignments and a final exam.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 1, Linguistics 1

CODE: HEN102
CREDITS: 7,5
LABORATORY HOURS: 0
STUDY PACE: Part time 25%
LOCATION: Västerås, Eskilstuna
LECTURE HOURS: 30
START PERIOD: 1
LEVEL OF EDUCATION: Basic Level First Year
LANGUAGE: English
EXAMINATION: Written and spoken assignments, Preparation for and participation in course activities, Written examination
PREREQUISITES: English B is required for Swedish students.

STUDY PERIODS

1A: 2009-08-31 - 2009-10-04
 1B: 2009-10-05 - 2009-11-01

2A: 2009-11-02 - 2009-11-29
 2B: 2009-11-30 - 2010-01-17

3A: 2010-01-18 - 2010-02-21
 3B: 2010-02-22 - 2010-03-28

4A: 2010-03-29 - 2010-05-02
 4B: 2010-05-03 - 2010-06-04

COURSE CONTENT: Linguistics 1 provides an introduction to three fundamental areas of English linguistics: grammar, phonetics and lexical semantics. Teaching is in the form of lectures and discussion groups. Assessment is by means of activities in and out of class, and a final written examination.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 1, Literature 1

CODE: HEN101

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Västerås, Eskilstuna

EXAMINATION: Written and spoken assignments, Preparation for and participation in course activities, Final exam

PREREQUISITES: English B is required for Swedish students.

COURSE CONTENT: This course will give you an introduction to contemporary Global English literature, and to the use of literary terminology and some techniques for literary study. The reading list consists of contemporary and important novels, short stories and plays from the English speaking world and reflects the course's focus on post-colonial literature. Assessment is by way of spoken and written assignments and a final exam.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 2

CODE: HEN200

CREDITS: 30

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Written and spoken assignments, Final Exam

PREREQUISITES: At least 30 credits English as a major subject including at least 7.5 credits linguistics.

COURSE CONTENT: In English 2 you'll build on the knowledge and skills you gained in the first term to complete your foundation studies in English from a historical perspective.

Like English 1, the course consists of three components: in Language in Context 2 you'll get an overview of important historical episodes in the English-speaking world, and you'll further develop your ability to understand and produce English, particularly in academic contexts. Literature 2 surveys the development of English-language literature, and in Linguistics 2 you'll sample a range of sub-disciplines in English linguistics, including the history of the English language.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 2, Language in Context 2

CODE: HEN201

CREDITS: 15

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Written and spoken assignments, Preparation for and participation in course activities, British and American history and writing skills

PREREQUISITES: At least 30 credits English as a major subject including at least 7.5 credits linguistics.

COURSE CONTENT: Language in Context 2 has two objectives: to give an overview of important historical trends and episodes in the English-speaking world, and to create opportunities for students to improve their English language skills.

Learning activities in Language in Context 2 include lectures, seminar discussions and individual writing conferences. Assessment activities consist of written assignments, participation in, and preparation for, class activities, and a final exam.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 2, Linguistics 2

CODE: HEN202

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Written and spoken assignments, Preparation for and participation in course activities, Final exam

PREREQUISITES: At least 30 credits English as a major subject including at least 7.5 credits linguistics.

COURSE CONTENT: Linguistics 2 provides a survey of key areas in English linguistics, including:

- the development of human language.
- the historical development of the English language

- phonology.
- pragmatics.
- sociolinguistics.
- discourse analysis.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 2, Literature 2

CODE: HEN203

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Västerås

EXAMINATION: Written and spoken assignments, Preparation for and participation in course activities

PREREQUISITES: At least 30 credits English as a major subject including at least 7.5 credits literature.

COURSE CONTENT: Literature 2 builds on your previous studies in English and offers an historical review of English literature.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 3, American Literature

CODE: HEN306

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Written assignment, Oral examination in individual seminars with the instructor

PREREQUISITES: At least 60 credits English as a major subject including at least 15 credits literature.

COURSE CONTENT: This is an American literature course for anyone who enjoys reading good literature on his/her own. The reading list includes classics by Twain, Hawthorne, and Hurston, as well as contemporary works by Tyler, Erdrich and Eugenides.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 3, Corpus Linguistics

CODE: HEN302

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Spoken and written assignments, Preparation for and participation in course activities, Final exam

PREREQUISITES: At least 60 credits English as a major subject including at least 15 credits linguistics.

COURSE CONTENT: This course provides an introduction to the field of Corpus Linguistics, including its historical development and current concerns. We will acquaint ourselves with the core issues (What is a corpus? How can it be used? How does corpus linguistics differ from other forms of doing linguistics?) and try our hands at corpus-based studies of lexical and grammatical features of English.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

English 3, Discourse Analysis

CODE: HEN303

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Spoken and written assignments, Preparation for and participation in course activities, Final exam

PREREQUISITES: At least 60 credits English as a major subject including at least 15 credits linguistics.

COURSE CONTENT: Doing discourse analysis means looking closely at language in use to see how it is used and what effects it has, and in this course you will do a great deal of hands-on analysis of spoken and written texts. We will begin with an overview of the area of discourse analysis and then move on to look more closely at two specific areas: for example, forensic linguistics (or the applications of linguistics to the legal system and the processes of the law); English for academic purposes; critical discourse analysis; political discourse etc.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

STUDY PERIODS

1A: 2009-08-31 – 2009-10-04

1B: 2009-10-05 – 2009-11-01

2A: 2009-11-02 – 2009-11-29

2B: 2009-11-30 – 2010-01-17

3A: 2010-01-18 – 2010-02-21

3B: 2010-02-22 – 2010-03-28

4A: 2010-03-29 – 2010-05-02

4B: 2010-05-03 – 2010-06-06

English 3, Essay in English Studies

CODE: HEN301
CREDITS: 15 **LECTURE HOURS:** 60
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Essay and ventilation seminar
PREREQUISITES: At least 60 credits English as a major subject.
COURSE CONTENT: The essay in English studies on the 300 level and the advanced essay on the 400 level are independent research projects. During the course of the term you will plan, carry out, and write up, a research project, under the supervision of a member of the English studies staff.
 The booklet "Essay Supervision" lists the research interests of the staff and indicates the type of topics they can supervise. If you have identified a research area that is not listed here, contact a member of staff to discuss your ideas; we will try to match you up with an appropriate supervisor.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 4, Advanced Essay in English Studies

CODE: HEN401
CREDITS: 15 **LECTURE HOURS:** 60
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Essay and ventilation seminar
PREREQUISITES: At least two years of studies on the basic level or at least 120 credits in the relevant subject area.
COURSE CONTENT: The essay in English studies on the 300 level and the advanced essay on the 400 level are independent research projects. During the course of the term you will plan, carry out, and write up, a research project, under the supervision of a member of the English studies staff.
 The booklet "Essay Supervision" lists the research interests of the staff and indicates the type of topics they can supervise. If you have identified a research area that is not listed here, contact a member of staff to discuss your ideas; we will try to match you up with an appropriate supervisor.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 4, American Literature

CODE: HEN406
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: The examination is oral, except for a short essay
PREREQUISITES: At least two years of studies on the basic level or at least 120 credits in the relevant subject area including at least 22,5 credits literature.
COURSE CONTENT: This is an American literature course for anyone who enjoys reading good literature on his/her own. The reading list includes classics by Twain, Hawthorne, and Hurston, as well as contemporary works by Tyler, Erdrich and Eugenides. The examination is oral, except for a short essay. This is an American literature course for anyone who enjoys reading good literature on his/her own. The reading list includes classics by Twain, Hawthorne, and Hurston, as well as contemporary works by Tyler, Erdrich and Eugenides.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 4, Corpus Linguistics

CODE: HEN404
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Spoken and written assignments, Preparation for and participation in course activities, Final exam
PREREQUISITES: At least two years of studies on the basic level or at least 120 credits in the relevant subject area.
COURSE CONTENT: This course provides an introduction to the field of Corpus Linguistics, including its historical development and current concerns. We will acquaint ourselves with the core issues (What is a corpus? How can it be used? How does corpus linguistics differ from other forms of doing linguistics?) and try our hands at corpus-based studies of lexical and grammatical features of English. The demands on 4th-term students will be somewhat higher than on 3rd-term students as regards, for example, their scientific attitude and approach, as well as oral and written presentation skills.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English 4, Discourse Analysis

CODE: HEN402
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Spoken and written assignments, Preparation for and participation in course activities, Final exam.
PREREQUISITES: At least two years of studies on the basic level or at least 120 credits in the relevant subject area.
COURSE CONTENT: Doing discourse analysis means looking closely at language in use to see how it is used and what effects it has, and in this course you'll do a great deal of hands-on analysis of spoken and written texts. We'll begin with an overview of the area of discourse analysis and then move on to look more closely at two specific areas: for example, forensic linguistics (or the applications of linguistics to the legal system and the processes of the law); English for academic purposes; critical discourse analysis; political discourse; etc.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English for Academic Purposes 1

CODE: HEN002
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Preparatory level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Written and spoken assignments, Preparation for and participation in scheduled activities, Grammar and vocabulary exam
PREREQUISITES: Three years of upper secondary school or equivalent.
COURSE CONTENT: English for Academic Purposes 1 aims at developing oral and written proficiency in English at the upper intermediate level. The course comprises lectures, seminars and individual and group exercises.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English for Academic Purposes 2

CODE: HEN104
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level First Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Written and spoken assignments, Seminar, Written exam
PREREQUISITES: English B is required for Swedish students.
COURSE CONTENT: English for Academic Purposes 2 aims at developing advanced proficiency in spoken and written English. The course consists of lectures, seminars and individual and group exercises.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

English for Business Purposes

CODE: HEN111
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 25% **LEVEL OF EDUCATION:** Basic Level First Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Written and spoken assignments, Preparation for and active particip. in the campus meetings, Written examination
PREREQUISITES: English B is required for Swedish students.
COURSE CONTENT: The course is designed to improve oral and written techniques in business contexts. Features of style and the language of different types of business correspondence are practised: how to say what mean can make or break a business deal. Other business-related matters such as banking, insurance, personnel, social correspondence, interview skills and intercultural communication are also dealt with.
CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se
SCHOOL: School of Education, Culture and Communication

Literature 3: Imaginations

CODE: HEN311
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercise, Seminar, Examination
PREREQUISITES: At least 60 credits in English including at least 15 credits literature or equivalent.
COURSE CONTENT: This course will build on and extend your knowledge of literary studies, especially of British and North American texts and of literary analysis, and will

STUDY PERIODS

1A: 2009-08-31 - 2009-10-04
 1B: 2009-10-05 - 2009-11-01

2A: 2009-11-02 - 2009-11-29
 2B: 2009-11-30 - 2010-01-17

3A: 2010-01-18 - 2010-02-21
 3B: 2010-02-22 - 2010-03-28

4A: 2010-03-29 - 2010-05-02
 4B: 2010-05-03 - 2010-06-06

allow you to explore themes like the Uncanny and Racial Otherness in works from three centuries. It is also an introduction to literary theory and criticism. The course could help you identify a relevant essay topic and will equip you for essay research. Assessment is by way of spoken and written assignments and a final exam.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

Literature 4: Imaginations

CODE: HEN411

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Written exercise, Seminar

PREREQUISITES: At least two years of studies on the basic level or at least 120 credits in the relevant subject area, including at least 22,5 credits in literature.

COURSE CONTENT: This course will extend and deepen your mastery of literary studies in English, particularly of British and American canonical and contemporary texts, and of literary theory and analysis. The reading list explores themes like the Uncanny, and Racial Otherness in works from three centuries, and applied literary theory and criticism. The course could help you identify a relevant topic for the Advanced essay and equip you for such research. Assessment will be by way of spoken assignments and a 7-8 page essay.

CONTACT PERSON: Diane Pecorari, diane.pecorari@mdh.se

SCHOOL: School of Education, Culture and Communication

ENVIRONMENTAL ENGINEERING

Environmental Pollution Measurements, project

CODE: WMO004

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Project

PREREQUISITES: At least 90 credits in Environmental Engineering/Science where at least 15 credits of basic chemistry is included.

COURSE CONTENT: The course is project based and includes measurements such as sampling, analyses and evaluation of results from environmental data from soil, water, air and biota. In addition, the course includes different statistical methods that can be used to treat and evaluate measurement data. The project deals with real problems which can be carried out in collaboration with industry.

CONTACT PERSON: Karin Spets, karin.spets@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

ENVIRONMENTAL SCIENCE

Applied Aquatic Ecology

CODE: WMX013

CREDITS: 15

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Laboratory work, Project, Oral/Written examinations

PREREQUISITES: At least 60 credits in the technical or natural sciences areas where at least 15 credits in ecology and 15 credits in chemistry are included.

COURSE CONTENT: This is an advanced course in the field of aquatic ecology. It is of vital importance to be able to describe and predict environmental quality for proper inland water management. Tools for investigations of environmental status and predictions of development will be used. The course also penetrates into the field of ecotoxicology and experimental methods to determine toxicity of chemicals and process waters are studied. The course includes a field work with sampling in lake and running water.

CONTACT PERSON: Åke Forsberg, ake.forsberg@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

Ecological Economics and Organizations

CODE: WMX038

CREDITS: 15

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Exercise, Oral/Written examinations

PREREQUISITES: A Bachelor's degree from an institution of higher education of three years or more, equivalent to at least 180 credits in Business Administration, Social

Science or Technology; or at least 90 credits in Business Administration of which at least 30 credits on Basic Level Third Year.

COURSE CONTENT: The course is presenting a theoretical framework concerning the concepts of ecological economics and organizational institutional theories. Ecological economics can be described as an interdisciplinary area of study where the ambition is to deal constructively with issues of environment and development. The course focuses on an organizational perspective for analysing the interaction between nature and society. This in relation to how companies, public organizations and NGOs deal with sustainable issues. Individuals and organisations are seen as responsible actors with environmental and corporate social responsibility policies and strategies. Approaches to decision-making as well as practices in private and public organisations are critically examined and alternatives proposed. The course builds largely upon business management literature and other social sciences.

CONTACT PERSON: Mona Andersson, mona.andersson@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

Environmental Issues and Sustainability

CODE: WMX037

CREDITS: 15

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Project, Seminar, Oral/Written examinations

PREREQUISITES: At least 120 credits in the relevant subject area.

COURSE CONTENT: This course is an introduction to Environmental Science it contains ecological principles of importance for the environment. Physical, chemical and biological explanations to environmental problems such as acid rain, global warming, ozone destruction, urban ozone, eutrophication and toxic substances will be presented as well as the use and preservation of natural resources and biodiversity. Waste management and recycling. Environmental policy, law and planning for the development of a sustainable society. Introduction to scientific theory and scientific methods in environmental science. Resent research at the department will be presented.

CONTACT PERSON: Åke Forsberg, ake.forsberg@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

INFORMATION DESIGN

3D-Modeling - Basic Skills, distance course

CODE: KIT173

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LANGUAGE: English

EXAMINATION: Exercise, Oral/Written examinations

PREREQUISITES: Three years of upper secondary school or equivalent.

COURSE CONTENT: In theory and practice this course gives an introduction to 3D computer design. It gives an overview of possibilities and tools, it discusses areas of use and design strategies and gives a first practical encounter with 3D modelling in 3ds Max. The student must have access to a computer and 3D Studio Max.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

Information Design - An Introduction, distance course

CODE: ITE102

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LANGUAGE: English

EXAMINATION: Exercise, Seminar

PREREQUISITES: Three years of upper secondary school or equivalent.

COURSE CONTENT: This course includes studies of sender processes, text design, image design, graphic design, and receiver processes

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

INFORMATION SYSTEMS

IT and IS Management

CODE: EIK032

CREDITS: 15

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Exercise, Oral/Written examinations

LECTURE HOURS: 40

START PERIOD: 2

LEVEL OF EDUCATION: Advanced level

LANGUAGE: English

PREREQUISITES: A Bachelor's degree from an institution of higher education of three years or more, equivalent to at least 180 credits in Business Administration, Social Science or Technology; or at least 90 credits in Business Administration or Informatics of which at least 30 credits on Basic Level Third Year.

COURSE CONTENT: The course examines how information technology (IT) enables organizations to conduct business in radically different and more effective ways. The commercialization of the Internet has created a radical change in the business environment. New channels of supply and distribution are emerging. New electronic marketplaces and exchanges are being created. The infrastructures of firms and the industries within which they operate have been permanently altered. The objective is to provide students with a better understanding of the influence of information and communication technologies on business and many other related areas.

CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

Marketing and IT

CODE: EIK035

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Oral/Written examinations, Group Project, Seminar

PREREQUISITES: 30 credits in Business Administration (at least 15 credits finished when the course starts) and Informatics 7,5 credits.

COURSE CONTENT: The purpose of this course is to let the students develop knowledge about the use of information technology (IT) in marketing situation. The students will develop understanding for the consequences and significance of the use of information systems (IS) in companies and organizations. Perspectives on different information system in marketing contexts are discussed based on scientific articles in seminar form. In this course, the student will develop an understanding of how information technology enables marketing thinking. The student will also train in written and oral presentation.

CONTACT PERSON: Madeleine Lundberg, madeleine.lundberg@mdh.se

SCHOOL: School of Sustainable Development of Society and Technology

INNOVATION TECHNOLOGY

Foresight and Scenario Design, distance course

CODE: INO201

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LANGUAGE: English

EXAMINATION: Exercise, Oral/Written examinations

PREREQUISITES: Three years of upper secondary school or equivalent and one year of completed university studies.

COURSE CONTENT: In this course we address questions like:

- What is foresight respectively scenario design?
- Can an organization increase its' innovative capabilities through using foresights and scenarios, and if so how?
- How do you construct foresights?
- How do you construct scenarios?
- What tools and mental models can be used while constructing foresights and scenarios?
- What personal categories are affected by foresight and scenarios and what are their different roles in the constructions?
- How does foresights and scenarios relate to management, leadership and strategy?
- How does foresights and scenarios relate to innovation, communication, trend spotting, business environment analysis and organized intelligence?
- Your own questions.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

Foresight and Scenario Design

CODE: INO201

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Eskilstuna

EXAMINATION: Exercise, Oral/Written examinations

PREREQUISITES: Three years of upper secondary school or equivalent and one year of completed university studies.

COURSE CONTENT: In this course we address questions like:

- What is foresight respectively scenario design?
- Can an organization increase its' innovative capabilities through using foresights and scenarios, and if so how?
- How do you construct foresights?
- How do you construct scenarios?

1A: 2009-08-31 - 2009-10-04

1B: 2009-10-05 - 2009-11-01

2 A: 2009-11-02 - 2009-11-29

2 B: 2009-11-30 - 2010-01-17

- What tools and mental models can be used while constructing foresights and scenarios?
- What personal categories are affected by foresight and scenarios and what are their different roles in the constructions?
- How does foresights and scenarios relate to management, leadership and strategy?
- How does foresights and scenarios relate to innovation, communication, trend spotting, business environment analysis and organized intelligence?
- Your own questions.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

Innovation Management

CODE: KIN320

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Eskilstuna

EXAMINATION: Exercise, Seminar

PREREQUISITES: 60 credits or equivalent

COURSE CONTENT: In order to innovate, it is of central importance to be able to manage innovations. This course teaches students to manage innovation entailing reaction or pro-action, invoking creativity, producing innovation and taking action, displaying entrepreneurship. A major assumption here is that these capabilities need training-practicing-in order to change economic and political regimes.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

INTERCULTURAL COMMUNICATION

Intercultural Teaching and Learning in Sweden

CODE: UP0003

CREDITS: 30

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Written examination

PREREQUISITES: Three years of upper secondary school or equivalent.

COURSE CONTENT: Intercultural Teaching and Learning in Sweden offers a theorised and practical approach to educational and intercultural matters. This module is open to exchange students, Swedish teacher students, and other students interested in this field.

The aim of the module is to give students a basic understanding and knowledge of the Swedish educational system, as well as for students to discuss and reflect on their own cultural and educational background.

The students will get the opportunity to combine theoretical knowledge and practical learning in educational work settings. Therefore, three weeks of the semester are tied to practical experiences in educational settings (primary/secondary/upper secondary). This school-based work consists of structured observation visits and during this period students will get the opportunity both to communicate their experiences from their own countries and get to know Swedish school situations.

CONTACT PERSON: Louise Sund, louise.sund@mdh.se

SCHOOL: School of Education, Culture and Communication

MATHEMATICS/APPLIED MATHEMATICS

Algebra

CODE: MMA301

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Continuous examination and quiz, Seminar, Written and/or oral examination

PREREQUISITES: Mathematics course D, Physics course B and Chemistry course A from Swedish upper secondary education or equivalent. This is a translation and an abbreviated version of the standard eligibility requirement E.3. For all details please see (in Swedish) at www.hsv.se/sv/CollectionServlet/53/82/184/1242.html. For subjects and course contents (in English) for Swedish upper secondary school please see Programme manual at www.skolverket.se/english/publ.shtml. Exemption from requirements Physics course B and Chemistry course A.

COURSE CONTENT: Systems of linear equations occur frequently in economics as well as in other sciences where quantitative methods are used. The systems can be very large and contain thousands of variables and conditions. Different numerical methods are used to solve such systems on computers. Matrix is a key concept for these methods and the course focuses on this very important mathematical object and its properties. Vectors are introduced and studied in the three dimensional space.

3 A: 2010-01-18 - 2010-02-21

3 B: 2010-02-22 - 2010-03-28

4 A: 2010-03-29 - 2010-05-02

4 B: 2010-05-03 - 2010-06-06

STUDY PERIODS

Methods of calculating lengths of vectors and angles between them are discussed and used to solve problems concerning lines and planes. The geometrical meaning of vectors is very helpful when one tries to understand and explain what happens during the process of determining solutions to large linear systems. The course is given in English.

CONTACT PERSON: Krystyna Szpricer Alm, krystyna.berg@mdh.se
SCHOOL: School of Education, Culture and Communication

Analytical Finance I

CODE: MMA707
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Seminar, Written examination
PREREQUISITES: At least 120 credits in the technical, natural sciences, business administration or economics areas where Probability 7,5 credits or equivalent is included.
COURSE CONTENT: On exchanges and on the OTC (Over The Counter) markets, wide ranges of financial instruments are traded. Many instruments such as options, warrants, forwards, futures, bonds, notes, bills, swaps etc. are valued by mathematical models or by simulations. In financial engineering, valuation models are developed, studied and used to create new types of instrument by combinations of other instruments. The course in Analytical Finance I provide the students with a broad knowledge of models and methods used in the financial industry. A major part of the course discusses mathematical and numerical models for various instruments. By the end of this course the students should have sufficient knowledge of quantitative finance to understand most of the derivative contracts traded in the equity and fixed income markets and to value them.
CONTACT PERSON: Jan Röman, jan.roman@mdh.se
SCHOOL: School of Education, Culture and Communication

Analytical Finance II

CODE: MMA708
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Seminar, Continuous and final examination
PREREQUISITES: At least 120 credits in the technical, natural sciences, business administration or economics areas where Analytical Finance I 7,5 credits or equivalent is included.
COURSE CONTENT: This course is continuation of the course Analytical Finance I. In Analytical Finance II, the students will broaden their knowledge of models and methods used in the financial industry. The major part of the course will focus on mathematical and numerical methods. By the end of this course the students should have sufficient knowledge of the use of stochastic calculus to solve financial problems.
CONTACT PERSON: Jan Röman, jan.roman@mdh.se
SCHOOL: School of Education, Culture and Communication

Analytical Finance with MATLAB

CODE: MAA312
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Third Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Computer project, seminar
PREREQUISITES: Introduction to Financial Mathematics 7,5 credits and Numerical Methods with MATLAB 7,5 credits or equivalent and English A.
COURSE CONTENT: Introduction to MATLAB language. Graphics in MATLAB. Graphical user interfaces. Charting financial data. Analysing and computing cash flows. Pricing and computing yields for fixed-income securities. Computing treasury bill price and yield. Term structure calculations. Convertible bond valuation. Computing prices and sensitivities of interest rate dependent securities using the interest rate term structure and interest rate models.
CONTACT PERSON: Anatoliy Malyarenko, anatoliy.malyarenko@mdh.se
SCHOOL: School of Education, Culture and Communication

Calculus II

CODE: MMA305
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level Second Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Project, Seminar, Written examination
PREREQUISITES: Calculus I 7,5 credits or equivalent.
COURSE CONTENT: Calculus provides tools for describing different kinds of motion, including motion in business and economics. In real life, a moving quantity often

depends on more than one variable. In Calculus II, we will deal with functions of several real variables. This course is devoted to basic theory of functions of more than one variable and applications in economics and business.

CONTACT PERSON: Anatoliy Malyarenko, anatoliy.malyarenko@mdh.se
SCHOOL: School of Education, Culture and Communication

Differential Equations in Finance

CODE: MMA712
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Seminar and/or tests, Oral/Written examinations
PREREQUISITES: At least 120 credits in the technical, natural sciences, business administration or economics areas where Analytical Finance I 7,5 credits or equivalent is included.
COURSE CONTENT: A mathematical topic which plays a significant role in Financial Mathematics is Differential Equations. In the course the theory for ordinary and partial differential equations is studied with focus on financial applications.
CONTACT PERSON: Krystyna Szpricer Alm, krystyna.berg@mdh.se
SCHOOL: School of Education, Culture and Communication

Java in Analytical Finance

CODE: MMA710
CREDITS: 15 **LECTURE HOURS:** 50
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Projects, Seminars
PREREQUISITES: Introduction to Financial Mathematics 7,5 credits or equivalent.
COURSE CONTENT: Talk about Java technology seems to be everywhere, but what exactly is it? Java technology is both a programming language and a platform. In this course, students learn Java programming language and write Java programs, using the Java Virtual Machine and the Java Application Programming Interface (API). Applications from Analytical Finance are essential parts throughout the course.
CONTACT PERSON: Anatoliy Malyarenko, anatoliy.malyarenko@mdh.se
SCHOOL: School of Education, Culture and Communication

Mathematics for Economics and Business

CODE: MMA300
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 1
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Basic Level First Year
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Project, Seminar, Written examination
PREREQUISITES: Mathematics course C and Civics course A from Swedish upper secondary education or equivalent. This is a translation and an abbreviated version of the standard eligibility requirement D.4.1. For all details please see (in Swedish) at www.hsv.se/sv/CollectionServlet/53/82/184/1242.html. For subjects and course contents (in English) for Swedish upper secondary school please see Programme manual at www.skolverket.se/english/publ.shtml. Exemption from requirement Civics course A.
COURSE CONTENT: To be prepared for studying the mathematical part of Analytical Finance you need not only technical skill but also a clear understanding of concepts. Indeed conceptual understanding and technical skill go hand in hand, each reinforcing the other; both are necessary for success, not only in mathematics, but also in subsequent economical courses. A student also needs an appreciation that mathematics contains great ideas that can be used to model economical and financial situations. The course presents opportunities for students to discover this practical power of mathematics.
CONTACT PERSON: Anatoliy Malyarenko, anatoliy.malyarenko@mdh.se
SCHOOL: School of Education, Culture and Communication

Optimization in Finance

CODE: MMA516
CREDITS: 7,5 **LECTURE HOURS:** 30
LABORATORY HOURS: 0 **START PERIOD:** 2
STUDY PACE: Part time 50% **LEVEL OF EDUCATION:** Advanced level
LOCATION: Västerås **LANGUAGE:** English
EXAMINATION: Exercises, Written examination
PREREQUISITES: At least 120 credits in the technical, natural sciences, business administration or economics areas where Calculus II 7,5 credits and Numerical Methods 7,5 credits or equivalent are included.
COURSE CONTENT: The course gives basic knowledge of the theory of mathematical programming and optimization, as well as the practical application of numerical algorithms for optimization. During the course a number of applied optimization problems are studied.
 Unconstrained non-linear optimization: Mathematical Theory, Line Search Algorithms, Newtonian and Quasi-Newtonian methods. Conjugate Gradient Methods. Automatic and Numerical Differentiation.

STUDY PERIODS

1A: 2009-08-31 - 2009-10-04
 1B: 2009-10-05 - 2009-11-01

2A: 2009-11-02 - 2009-11-29
 2B: 2009-11-30 - 2010-01-17

3A: 2010-01-18 - 2010-02-21
 3B: 2010-02-22 - 2010-03-28

4A: 2010-03-29 - 2010-05-02
 4B: 2010-05-03 - 2010-06-04

Constrained Nonlinear Optimization: Theory, Quadratic Programming, Active-Set Methods. Penalty and Barrier Methods. Duality. Lagrange Methods, especially Sequential Quadratic Programming. Interior-Point Methods, Karmakar's Method. Energy Optimization.

Parameter Estimation: Nonlinear Least Squares Approximation. Circle Approximation. Fitting of Weighted Positive Sums of Exponential Functions to Empirical Data. Practical solution of optimization problems in Matlab using our optimization environment TOMLAB, which uses the toolbox NLPLIB, the Optimization Toolbox and commercial standard software for optimization.

CONTACT PERSON: Kenneth Holmström, kenneth.holmstrom@mdh.se

SCHOOL: School of Education, Culture and Communication

Portfolio Theory I

CODE: MAA314

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Seminar, Written examination

PREREQUISITES: Methods of Statistical Inference 7,5 credits/equivalent and English A.

COURSE CONTENT: Based on a mathematical and statistical setting; the course will explore the mechanics of portfolio theory via geometric and algebraic analysis. The emphasis is to summarize and distil the issues surrounding portfolio optimisation (mean-variance optimisation) of various assets, derive the Capital Asset Pricing Model (CAPM) and the Arbitrage Pricing Theory (APT), and discuss the topic of portfolio evaluation through risk-adjusted performance attribution measures. Derivatives will be considered in investigating the efficient frontier on the investment opportunity set (Sharpe ratio). Regression analysis (single and multifactor), principal component analysis, matrix algebra, and linear equations will set the framework for portfolio construction. At the end of the course students will approach current research in the field of finance. The course will use Excel for the project.

CONTACT PERSON: Lars Pettersson, lars.pettersson@mdh.se

SCHOOL: School of Education, Culture and Communication

Probability

CODE: MMA306

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Continuous examination, Quiz, Seminar, Written examination

PREREQUISITES: Calculus II 7,5 credits or equivalent.

COURSE CONTENT: Probability theory deals with models for random experiments, i.e. experiments where it is not possible to predict the outcome even if one has full control of the external circumstances. Many phenomena where random variation is involved can be described in terms of probabilities. In finance, random models are used e.g. for stock prices and option prices. After having completed the course you will possess the skills of probabilistic modelling of real world situations. The content of the course is an important ingredient of the theoretical base of further courses in the Analytical Finance program such as Actuarial Mathematics, Stochastic Processes and Statistical Inference.

CONTACT PERSON: Anna Fedyszak-Koszela, anna.koszela@mdh.se

SCHOOL: School of Education, Culture and Communication

Stochastic Processes

CODE: MMA701

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Continuous examination/projects, Seminars

PREREQUISITES: At least 120 credits in the technical, natural sciences, business administration or economics areas where Probability 7,5 credits or equivalent is included.

COURSE CONTENT: Stochastic processes play a key role in analytical finance and insurance, and in financial engineering. The course presents the basic models of stochastic processes such as random walks, Markov chains, Poisson processes, Brownian motions and diffusion processes, elements of stochastic calculus and stochastic differential equations as well as simulation of stochastic processes. The presentation of the theory will be illustrated by many examples representing applications in asset pricing, portfolio analysis as well as pricing of options and other derivatives.

CONTACT PERSON: Dmitrii Silvestrov, dmitrii.silvestrov@mdh.se

SCHOOL: School of Education, Culture and Communication

Time Series Analysis

CODE: MMA702

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LECTURE HOURS: 30

START PERIOD: 2

LEVEL OF EDUCATION: Advanced level

LOCATION: Västerås

LANGUAGE: English

EXAMINATION: Continuous examination/projects combined with written test, Seminars

PREREQUISITES: At least 120 credits in the technical, natural sciences, business administration or economics areas where Stochastic Processes 7,5 credits or equivalent is included.

COURSE CONTENT: Time series play a key role in analytical finance and insurance, and in financial engineering. The course presents the basic models of time series such as linear time series, autoregressive type models, nonlinear time series, high-frequency models, continuous time models and multivariate time series, elements of statistical estimation as well as simulation of time series. This basic part of the course can also be interesting for students from other specialties than analytical finance and financial engineering. The examples used in the course are selected from time series applications economics, finance and insurance.

CONTACT PERSON: Dmitrii Silvestrov, dmitrii.silvestrov@mdh.se

SCHOOL: School of Education, Culture and Communication

MEDICINE

Disaster Medicine

CODE: OBM025

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Exercise

LECTURE HOURS: 50

START PERIOD: 1a

LEVEL OF EDUCATION: Basic Level First Year

LANGUAGE: English

PREREQUISITES: Three years of upper secondary school or equivalent.

COURSE CONTENT: The aim of the course is to enable students to acquire basic knowledge about the preparedness of the health care system and the community for disaster scenarios. The course will also provide students with basic knowledge about the measures and tasks required in disasters and also prepare them to cope with the special strains caused by disaster. In addition students will acquire basic knowledge about disasters and their environmental impact.

CONTACT PERSON: Lillemor Fernqvist, lillemor.fernqvist@mdh.se

SCHOOL: School of Health, Care and Social Welfare

PRODUCT AND PROCESS DEVELOPMENT

Competitive Production Systems

CODE: KPP202

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Eskilstuna

EXAMINATION: Exercise, Oral/Written examinations

LECTURE HOURS: 10

START PERIOD: 1

LEVEL OF EDUCATION: Advanced level

LANGUAGE: English

PREREQUISITES: Innovative Production and logistics 7,5 credits or equivalent and a Bachelor's degree in the fields of technology from an institution of higher education of three years or more, equivalent to at least 180 credits with at least 22,5 credits in mathematics/applied mathematics or a Bachelor's degree in the fields of economics, business or science from an institution of higher education of three years or more, equivalent to at least 180 credits with at least 22,5 credits in mathematics/applied mathematics with one year of working experience in the industry.

COURSE CONTENT: The aim for the course is to give general understanding of the impact of competitive production and logistics in industrial operations. Participants shall gain understanding of the development of production and logistics over time and the present challenge for Swedish industry and shall also make reflections over coming challenges within the subject.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

Industrial Excellence

CODE: KPP319

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Eskilstuna

EXAMINATION: PM - literature studie, Project report, Seminar and exercise of simulation

LECTURE HOURS: 10

START PERIOD: 1

LEVEL OF EDUCATION: Advanced level

LANGUAGE: English

PREREQUISITES: 30 credits on level 1 out of 3 at advanced level in Product and Process Development whereof at least 15 credits within Production and Logistics, and courses in Algebra and Calculus, and admitted to course in Simulation and Modelling at level 2 out of 3 at advanced level and participating in that course at the latest in parallel with KPP319.

COURSE CONTENT:

- Competitive production systems and its ideas, methodologies and tools.
- Production process development, analysis of processes and methodology for rationalization studies.
- Methodes for and introduction of Lean production in modern production systems.

STUDY PERIODS

1 A: 2009-08-31 - 2009-10-04

2 A: 2009-11-02 - 2009-11-29

3 A: 2010-01-18 - 2010-02-21

4 A: 2010-03-29 - 2010-05-02

1 B: 2009-10-05 - 2009-11-01

2 B: 2009-11-30 - 2010-01-17

3 B: 2010-02-22 - 2010-03-28

4 B: 2010-05-03 - 2010-06-06

- Modelling and simulation as tools with focus on discrete event controlled simulation.
- Performing of applied improvement studies of a section of an industrial production system within manufacturing industry, which are to be analyzed through modeling and simulation.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Production and Logistics Planning

CODE: KPP227

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Eskilstuna

EXAMINATION: Project, Oral/Written examinations

PREREQUISITES: Innovative production and logistics 7,5 credits or Business Administration 7,5 credits and a Bachelor's degree in the fields of technology from an institution of higher education of three years or more, equivalent to at least 180 credits with at least 22,5 credits in mathematics/applied mathematics or a Bachelor's degree in the fields of economics, business or science from an institution of higher education of three years or more, equivalent to at least 180 credits with at least 22,5 credits in mathematics/applied mathematics with one year of working experience in the industry.

COURSE CONTENT: Production planning. Logistics planning. Methods for aggregate planning. Material requirement planning and master production scheduling. Inventory management and inventory control models. Forecasting techniques. Capacity planning. Facility Location. Facilities layout. Line balancing. Scheduling and sequencing. Project management. An introduction to some quantitative techniques such as linear programming, transportation techniques, waiting line models, and simulation. An independent literature study relating to different production philosophies and/or logistics planning should be done in the form of a written project work.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Project Management

CODE: KPP304

CREDITS: 15

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Eskilstuna

EXAMINATION: Project, Oral/Written examinations

PREREQUISITES: 15 credits Business Administration related courses, 15 credits engineering science, 15 credits industrial production and/or product development and a Bachelor's degree in the fields of technology from an institution of higher education of three years or more, equivalent to at least 180 credits with at least 22,5 credits in mathematics/applied mathematics or a Bachelor's degree in the fields of economics, business or science from an institution of higher education of three years or more, equivalent to at least 180 credits with at least 22,5 credits in mathematics/applied mathematics with one year of working experience in the industry.

COURSE CONTENT: Project characteristics and project environment, setting goals, the project manager, risk management, management styles, establishing project plans, planning methods including bar charting, CPM and PERT, project organization including functional, project, and matrix structures, conflict and negotiation, financing projects, project budgeting and cost estimation, expediting projects, resource loading and resource levelling, project control, project evaluation and project termination, project management applications. An independent study relating to some aspects of project management concepts and techniques should be done in the form of a written project work. The course is active in periods 1 and 3.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

Scientific Theory and Methodology

CODE: KPP317

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Eskilstuna

EXAMINATION: Assignment, Oral/Written examinations

PREREQUISITES: 30 credits in Product and Process Development on level 1 out of 3 at advanced level.

COURSE CONTENT:

- Science theory and methodology within engineering.
- Scientific methods within engineering.
- Information search.
- Reading and discussing scientific texts.
- Develop and present scientific texts.
- Review and oppose scientific texts.

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se
SCHOOL: School of Innovation, Design and Engineering

SCIENCE OF PUBLIC HEALTH

Child and Adolescent Public Health

CODE: OFH022

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Exercise, Oral/Written examinations

PREREQUISITES: Degree of Bachelor or equivalent.

COURSE CONTENT:

- Public Health theory and practice from a child and adolescence aspect
 - Health indicators and inequalities in health for children and adolescents
 - Current health problems in the period 0-18 years
 - Different arenas for public health work
 - Current research concerning health of children and adolescents
- CONTACT PERSON:** Lillemor Fernqvist, lillemor.fernqvist@mdh.se
SCHOOL: School of Health, Care and Social Welfare

SOCIAL WORK

Social Welfare from a Cultural Perspective

CODE: SAA001

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Eskilstuna

EXAMINATION: Oral/Written examinations

PREREQUISITES: Social sciences 30 credits on Basic Level First Year or equivalent.

COURSE CONTENT: Social welfare is in a great extent built on a cultural context. The idea of social welfare and the ways of running social work are inspired by fundamental values in the society. Social work has to be carried out in a sensitive way to cultural context confirming respect and integrity to the everyday life of the individual. With reference to practical work and a theoretical approach make the importance of cultural understanding clear to achieve quality of social work in a multicultural society. The course addresses to students within care sciences and social work from Sweden and foreign nations. In this way will specific observations and reflections be accomplished. English is the main language of this course.

CONTACT PERSON: Håkan Karp, hakan.karp@mdh.se

SCHOOL: School of Health, Care and Social Welfare

SPANISH

Spanish 1, Basic Cultural Studies

CODE: HSP103

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Västerås

EXAMINATION: Seminar, Literature and Culture

PREREQUISITES: C.2 Swedish course B/Swedish as a second language course B and language in question; at least C-language course B/stage 3 from Swedish upper secondary education or equivalent. This is a translation and an abbreviated version of the standard eligibility requirement C.2.

Exemptions is granted from Swedish course B. Spanish, Preparatory course (Level 2) 15 credits gives equivalent eligibility.

COURSE CONTENT: Pure Literature and Culture, 7,5 credits

Intensive training of language proficiency on the basis of modern literature. Continual presentation of the texts under the teacher's guidance. Exercises in written work, mainly in the form of summaries and reports in connection with the presentation of the texts. Lectures on the history of ideas and art in the Spanish-speaking countries.

CONTACT PERSON: Magda Salinas, magda.salinas@mdh.se

SCHOOL: School of Education, Culture and Communication

Spanish 1, Speaking Skills

CODE: HSP102

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 25%

LOCATION: Västerås

EXAMINATION: Examination, Phonetics, Pronunciation Practice, Exercise, Oral Communication

PREREQUISITES: C.2 Swedish course B/Swedish as a second language course B and language in question; at least C-language course B/stage 3 from Swedish upper secondary education or equivalent. This is a translation and an abbreviated version of the

STUDY PERIODS

1A: 2009-08-31 - 2009-10-04

1B: 2009-10-05 - 2009-11-01

2A: 2009-11-02 - 2009-11-29

2B: 2009-11-30 - 2010-01-17

3A: 2010-01-18 - 2010-02-21

3B: 2010-02-22 - 2010-03-28

4A: 2010-03-29 - 2010-05-02

4B: 2010-05-03 - 2010-06-06

standard eligibility requirement C.2.

Exemptions is granted from Swedish course B. Spanish, Preparatory course (Basic Level Second Year) 15 credits gives equivalent eligibility.

COURSE CONTENT: The course comprises the following parts:

(3 credits) Phonetics

(1.5 credits) Pronunciation Practice

(3 credits) Oral Communication

Lectures on the main features of general and Spanish phonetics: Spanish phonemes, phonetic signs, types of intonation and phonological processes and also a little about regional deviations from standard pronunciation. Conversation exercises.

CONTACT PERSON: Magda Salinas, magda.salinas@mdh.se

SCHOOL: School of Education, Culture and Communication

SWEDISH

Scandinavian Studies 1: Language and Society

CODE: SVA001

CREDITS: 30

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Oral/Written examinations

PREREQUISITES: Three years of upper secondary school or equivalent

COURSE CONTENT: Unit 1: Oral Communication, 9 credits

In this unit the basic ability to express oneself orally in Swedish is practised as well as the ability to understand simple spoken Swedish.

Unit 2: Written Communication, 9 credits

In this unit the basic ability to read and write simple texts in Swedish is practised as well as the use of dictionaries and other aids.

Unit 3: Phonetics and Grammar, 9 credits

This unit deals with the structure and characteristic features of the Swedish language as well as giving basic knowledge for the discussion of linguistic issues.

Unit 4: Social Conditions and Culture, 3 credits

This unit comprises studies in Swedish geography, politics and social structure.

CONTACT PERSON: Magnus Jansson, magnus.jansson@mdh.se

SCHOOL: School of Education, Culture and Communication

Scandinavian Studies 2: Language and Culture

CODE: SVA002

CREDITS: 30

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Oral/Written examinations

PREREQUISITES: Applicants from Nordic countries, the Netherlands, German-speaking Switzerland, Germany and Austria will have read Swedish as a degree subject at their home university for at least one year, and applicants from other countries for at least two years. The course in Swedish language and culture for guest students, 30 credits, will also meet the requirements.

COURSE CONTENT: Unit 1: Language Description, 6 credits

This unit deals with structure and characteristic features of the Swedish language as well as giving advanced knowledge for the discussion of linguistic issues.

Unit 2: Written Work, 9 credits

In this unit the ability to read and write various types of texts in Swedish is practiced as well as the use of dictionaries and other aids.

Unit 3: Oral Work and Listening Comprehension, 9 credits

In this unit the ability to express oneself in Swedish is practised as well as the ability to understand spoken Swedish.

Unit 4: Swedish Literature, 3 credits

The course comprises studies in Swedish literature.

Unit 5: Swedish History, Swedish Social Conditions and Swedish Culture, 3 hp

The course comprises studies in Swedish history, Swedish social conditions and Swedish culture

CONTACT PERSON: Magnus Jansson, magnus.jansson@mdh.se

SCHOOL: School of Education, Culture and Communication

Scandinavian Studies 3: Language, History and Literature

CODE: SVA101

CREDITS: 30

LABORATORY HOURS: 0

STUDY PACE: Full time

LOCATION: Västerås

EXAMINATION: Oral/Written examinations

PREREQUISITES: Swedish Language and culture for guest students, 30 credits, Swedish language and culture for guest students 2, 30 credits or equivalent knowledge of Swedish.

COURSE CONTENT: Unit 1: Language Description, 4.5 credits

This unit deals with descriptive and prescriptive grammar and also phonetics.

Unit 2: Oral Work, 4.5 credits

This unit deals with various speaking situations, preparation, structuring, target audience adaptation, argumentation and the use of aids.

Unit 3: Written Work, 6 credits

This unit deals with various writing situations, text types, the writing process, structuring, target group adaptation as well as the use of handbooks/dictionaries.

Unit 4: Nordic History, 7.5 credits

This unit deals with the history of the Nordic countries politically, socially, economically and culturally. The emphasis is placed on Sweden and Swedish conditions.

Unit 5: Modern Nordic Literature, 7.5 credits

This unit comprises studies in Nordic literature from the modern breakthrough period up to the present with the emphasis on Swedish literature.

CONTACT PERSON: Magnus Jansson, magnus.jansson@mdh.se

SCHOOL: School of Education, Culture and Communication

THEATRE

Multicultural Improvisation

CODE: IÖÅ001

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Eskilstuna, Västerås

EXAMINATION: Exercise, Participation, Project

PREREQUISITES: Curiosity towards developing one's own multicultural awareness and social skills.

COURSE CONTENT: The course aims:

- to enhance social skills that support constructive and friendly interaction in a multicultural environment
- to create methods for becoming aware of and decreasing false negative attitudes, prejudices and isolation
- to support the foreign students' acculturation process, i.e. adjusting to and coping with a new culture
- to explore, compare and contrast customs and features of the different cultures represented in the group
- to offer creative challenges that require working together in small and large groups
- to give the students the chance to make friends and to support expanding their social network
- to encourage the students to get more involved, committed and active in the student life and studies in the university

CONTACT PERSON: Annika Björklund, annika.bjorklund@mdh.se

SCHOOL: School of Innovation, Design and Engineering

Rhetorical Presentation Design

CODE: IÖÅ202

CREDITS: 7,5

LABORATORY HOURS: 0

STUDY PACE: Part time 50%

LOCATION: Västerås

EXAMINATION: Exercise

PREREQUISITES: Willingness and interest to learn and to experiment with presentation forms. Academic merits in Information design, communication and media or equivalent 7,5 hp. Intermediate level of the English language.

COURSE CONTENT: The course aims at giving deepened competences in rhetoric and in multimedial presentation design. Through theoretical reasoning and analyses combined with practical applications the aim is to give insights in various types of story telling techniques while using words, pictures, photos, colours, shapes and spaces in combinations suitable for the desired message.

CONTACT PERSON: Kerstin Gauffin, kerstin.gauffin@mdh.se

SCHOOL: School of Innovation, Design and Engineering

STUDY PERIODS

1A: 2009-08-31 – 2009-10-04

1B: 2009-10-05 – 2009-11-01

2 A: 2009-11-02 – 2009-11-29

2 B: 2009-11-30 – 2010-01-17

3 A: 2010-01-18 – 2010-02-21

3 B: 2010-02-22 – 2010-03-28

4 A: 2010-03-29 – 2010-05-02

4 B: 2010-05-03 – 2010-06-06