

Taught-in-English courses for International Students (undergraduate level)  
at the Lucerne School of Computer Science & Information Technology

Information Technology & Computer Science
Business
Interdisciplinary course
Language / Communication

Guest students can choose from all courses listed below. Detailed descriptions can be found on an internal student platform as soon as you are registered at the Lucerne School of Computers Science and Information Technology (latest 2 months prior arrival)

**Autumn Semester**

Version 07.10.22

Semester	Course Code	Field of Study	Course Name	Level	ECTS Credit (1)	Duration	Brief Description of Course	Prerequisite (General: English level at least B2)	Responsible / contact person	Campus
Autumn	I.BA_AICH	Information Technology & Computer Science	AI Challenge	Advanced	12	1 Semester	In this module, students participate in national and international AI Challenges and compete against other universities or organizations. Significant prize money is sometimes (but not always) at stake. Students will be supported to be ambitious and win these competitions. The challenges are, for example, competitions from Kaggle or RoboCup, or relevant Hackathons.	Intermediate knowledge in Data bases, big data, data visualization, machine learning	School of Information Technology, Jana Koehler	Rotkreuz
Autumn	I.BA_IOT	Information Technology & Computer Science	Internet of Things	Advanced	3	1 Semester	This course covers fundamental knowledge in building IoT systems, technologies, and real-world applications, and delivers hands-on skills for working in the IoT systems and software domain. Fundamental, practical knowledge and understanding leads to the ability to design and build real-world IoT systems and applications in industry. Additionally, a broad introduction to IoT empowers students for their future jobs and helps them pursuing a career as a Computer Science professional.	Familiarity with C programming, Linux command line, shell scripts, networking fundamentals	School of Information Technology, Angela Nicoara	Rotkreuz
Autumn	I.BA_NLP	Information Technology & Computer Science	Natural Language Processing	Advanced	9	1 Semester	Natural language processing (NLP) is a subfield of linguistics, computer science, and AI concerned with the interactions between computers and human language, in particular how to program computers to process and analyse large amounts of natural language data. We cover text-processing, semantics analysis, sentiment analysis, document classification and chatbots, as well as the latest deep learning methods for NLP. (9 ECTS)	Advanced Machine Learning	School of Information Technology, Alexander Denzler	Rotkreuz
Autumn	I.BA_ARINT	Information Technology & Computer Science	Artificial Intelligence	Basic	3	1 Semester	Introduction to the history, and current-state-of the art of AI, as well as its applications in e.g. search, classification, optimization, natural language processing, vision systems, game play, etc. Includes key underlying AI technologies such as support vector machines, supervised and unsupervised machine learning, neural networks, etc. Also includes practical work: AI applications should be implemented by the students in Python. Exam will be held by mid December at the latest.	none	School of Information Technology, Donnacha Daly	Rotkreuz
Autumn	I.BA_BLOCC	Information Technology & Computer Science	Blockchain Fundamentals	Basic	3	1 Semester	The students get a theoretical insight into the underlying technology and learn in several sessions how blockchain applications are structured. The acquired knowledge is used by the students to develop their own blockchain business case. The course follows a very strong "hands on" approach, with theoretical input being limited to 45-60min per block. The knowledge taught is consolidated through team exercises and a module spanning project. Exam will be held by mid December at the latest.	none	School of Information Technology, Alexander Denzler	Rotkreuz
Autumn	I.BA_CONWB	Information Technology & Computer Science	Computer & Network Basics	Basic	3	1 Semester	Introduction to computer communication, converged networks, principles of IP addressing, fundamentals of Ethernet LAN, building simple LAN, configure routers and switches, routing protocols such as RIP and OSPF, inter-VLAN routing, IPv4 and IPv6.	none	School of Information Technology, Werner Odermatt	Rotkreuz
Autumn	I.BA_CSF	Information Technology & Computer Science	Computer Science Fundamentals	Basic	6	1 Semester	Introduction to computer science and the internet, ERP Systems, development of information systems, computer architecture and operating systems, fundamentals of programming, object-oriented programming, software development, information security, artificial intelligence, databases.	none	School of Information Technology, René Meier	Rotkreuz
Autumn	I.BA_DASB	Information Technology & Computer Science	Data Science Basics	Basic	3	1 Semester	This module is carried out within the framework of the Major Data Engineering and Data Science. It provides a systematic introduction to the fundamentals of data engineering and data science through an introduction to data analysis with the programming language R.	knowledge about data management, database systems	School of Information Technology, Luca Mazzola	Rotkreuz
Autumn	I.BA_INTOT	Information Technology & Computer Science	Internet of Things	Basic	3	1 Semester	This course provides a practical introduction to Internet of Things (IoT). In this hands-on course, students will develop knowledge and practical skills in the design, programming, and building IoT systems and technologies, as well as applying concepts learned in class to actual real-world IoT applications. Topics include: IoT concepts, technologies, system software architectures for IoT, IoT challenges, IoT cloud-backend platforms overview, latest popular IoT devices, boards, sensors & tools, IoT connectivity & networking, IoT protocols & cloudbased interfaces, IoT security, visual programming for IoT (Node-RED). The course will also cover real-world use cases from different industries. Exam will be held by mid December at the latest.	none	School of Information Technology, Angela Nicoara	Rotkreuz
Autumn	I.BA_SIOT	Information Technology & Computer Science	Secure IOT	Advanced	3	1 Semester	Students develop knowledge and practical skills in building IoT secure systems and applying security concepts learned to real-world IoT applications. Topics include: IoT security threats, risks & challenges, technologies & testing tools, attack vectors in IoT, secure solutions with major IoT cloud platforms, major security flaws and past incidents from industries. This course dives into the IoT end-to-end security aspects towards technologies that transform businesses and peoples' lives.	Networking fundamentals, basics on systems programming, familiarity with C programming, debugging, Linux command line, shell scripts, basic crypto protocols.	School of Information Technology, Angela Nicoara	Rotkreuz

Autumn	I.BA_PROFU	Information Technology & Computer Science	Programming Fundamentals	Basic	6	1 Semester	Students will learn both basic programming concepts and essential language concepts of the programming language Java. Furthermore, the students will learn the basics of object-oriented programming (classes, objects, interfaces, inheritance, error handling). Students will be able to analyse simple problems and develop problem-oriented solutions including implementation.	none	School of Information Technology, Halldór Janetzko	Rotkreuz
Autumn	I.BA_DVIZ	Information Technology & Computer Science	Data Visualisation for AI and Machine Learning	Intermediate	3	1 Semester	Principles and concepts for the visual presentation of information. Design strategies for methods of presentation. Histories, theories and best practice for compelling data visualizations. Hands-on project work and case studies in applied data visualization. Independent assessment of design decisions concerning human perception and the significance of the visualization. Interactive visualizations.	basic knowledge in Artificial Intelligence and Machine Learning	School of Computer Science and Information Technology, Teresa Maria Kubacka	Rotkreuz
Autumn	I.BA_DIGCRE_MM.21	Information Technology & Computer Science	Digital Creativity	Intermediate	3	1 Semester	Explore different techniques of Machine Learning / Artificial Intelligence used today and their applications for design and art. Create neural networks and experiments with code examples. Investigate methods used in Computer Vision (image classification, objects detection, pose estimation...) and Generative Deep Learning (DL). Explorative module with a final project (solo or in group) based on one of the main DLmodels or some variations of it. Of particular interest to developers (Python + JS), but can be suitable for anyone with programming skills and eager to learn.	one year of IT studies completed	School of Information Technology, Guillaume Massol	Rotkreuz
Autumn	T.A.BA_PDP1	Information Technology & Computer Science	Engineering Product Development Project 1	Intermediate	6	1 Semester	Engineering project: experiencing the development of a product in an interdisciplinary team. Elaboration of market and product requirements; develop, evaluate and verify engineering solution concepts taking into account established ideas- and solution-finding methods. Set-up of suitable basic tests and prototypes for proof of concept. Exam: Group presentation during exam period.	Admission for exchange to this module has to be checked individually with the responsible lecturer	School of Engineering and Architecture, Simon Züst	Horw
Autumn	I.BA_GAME_MM	Information Technology & Computer Science	Game Theory	Intermediate	3	1 Semester	The course introduces the basic concepts, models and methods of game theory and its applications. Game theory is a branch of mathematics that analyzes strategic interactions and conflicts between rational decision-makers in a systematic, model-based way. It has deeply rooted into many parts of life, technology, politics and business with applications to biology and evolution, social interactions and dilemmas, military conflicts, marketing and advertisements, telecommunications, transport, taxation, insurance, economics, stock markets, and artificial intelligence. In this module we will explore the foundations of game theoretical description of conflicts and mathematical models that are used to resolve them, meaning finding the optimal strategy accounting for opponents' responses. We will explore non-cooperative and cooperative games, dynamic games and repeated games, games with imperfect or even incomplete information. The module will describe most prominent game-theoretical concepts (such as optimal strategy, Nash equilibrium, sub-game perfection, Shapely value) and their applications within classical toy-examples and real-world cases.	Knowledge about Linear Algebra and Statistics required	School of Information Technology, Vladimir Filimonov	Rotkreuz
Autumn	I.BA_SUM_SC_HOOL.F2201	Information Technology & Computer Science	International Summer School on Designing Serious Games	Intermediate	3	Intensive Week 05.09. - 09.09.22	The goals of serious games go beyond pure entertainment. They are about learning, education or awareness raising. This one-week intensive course explores different game genres and their typical game mechanics and investigates their suitability for different serious use cases. Each day, after a short theoretical input, you will form teams to develop paper prototypes for a specific scenario.	Experience in the field of game design (e.g. a module at university level). Students	School of Computer Science and Information Technology, Richard	Rotkreuz
Autumn	I.BA_I2C	Information Technology & Computer Science	Introduction to C Programming Language	Intermediate	3	1 Semester	Students develop knowledge and practical skills in programming using C, and the application of C in real world programming scenarios. Topics include basics & introduction to C, Control Flow & statements, Functions, variable scope, Arrays & Strings, Pointers & memory addressing, Structure, union & dynamic memory allocation. C is a general-purpose programming language and it is very popular despite being old. C is strongly associated with UNIX, as it was developed to write the UNIX operating system, hence giving students a strong base to associate their knowledge in future easily with machine language and its programming. The main features include low-level memory access, a simple set of keywords, and a clean style, these features make C language suitable for system programming.	basic knowledge of one or more other programming languages	School of Information Technology, Aakanksha Tiwari	Rotkreuz
Autumn	I.BA_KNRE_MM	Information Technology & Computer Science	Knowledge Representation	Intermediate	3	1 Semester	This module introduces the students to the different aspects of knowledge representation in AI. The different forms for representing and manipulating knowledge, the inference process over it and its usage in artificial agents are covered, as well as their extension to take into account uncertainty and probability reasoning with time-related aspects are covered for decision-making, both in simple and more complex settings.	Basic knowledge of math and statistics	School of Information Technology, Luca Mazzola	Rotkreuz
Autumn	I.BA_ML	Information Technology & Computer Science	Machine Learning	Intermediate	6	1 Semester	Fundamental techniques, models and architectures for supervised and unsupervised learning targeted to structured and unstructured data: regression and classification models, clustering, market basket analysis, recommender systems. Introduction to deep learning with applications to image and text analysis.	Students are expected to have already studied math and programming and to be strong at both subjects - further details when interested pls get in touch	School of Information Technology, Marc Pouly	Rotkreuz
Autumn	MA+PHY2_T	Information Technology & Computer Science	Mathematics & Physics Technology 2	Intermediate	6	1 Semester	Math: partial differentiation, total differentiation, multivariable integration, path integration. Physics: oscillatory motion: simple harmonic, damped and driven oscillations. Wave motion. Microscopic description of heat, temperature and gas pressure.	Entry requirement: Mathematics & Physics Technology 1	School of Engineering and Architecture, Thomas Graf	Horw
Autumn	I.USAB	Information Technology & Computer Science	Usability	Intermediate	3	1 Semester	The human being in direct interaction with systems, definitions of usability and user experience, human centred design process and its integration into a general project approach, GUI design, various interaction elements, usability and quality, usability and accessibility, usability and special technologies (e.g. AR/VR, hardware ...).	Entry requirement: Computer Science Fundamentals, Programming Skills	School of Information Technology, Marcel Uhr	Horw
Autumn	T.A.SI	Business	Service Innovation	Advanced	3	1 Semester	The focus is on service innovations that aim to make the most of high value capital equipment. The creation of high impact innovation by cross-functional project teams will be discussed. The stage gate innovation process will be described and limitations will be discussed within the context of service products and service industries. Service Design Thinking plays a major part of the module.	All compulsory modules on Basic level successfully passed	School of Engineering and Architecture, Shaun West	Horw
Autumn	I.BA_BSCMA	Business	Business & Supply Chain Management	Basic	6	1 Semester	Basic model of Porter's value chain , primary activities, support activities, the basic supply-chain operations reference (SCOR) model, and process orientation.	none	School of Information Technology, Ute Klotz	Rotkreuz
Autumn	I.BA_BUETC	Business	Business Ethics	Basic	3	1 Semester	Students will learn how to develop ethical positions and to understand the ethical dimensions and questions pertinent to their professions. This will include discovering the values which guide their ethical decision making, applying different value systems and utilizing an ethical process to address everyday ethical problems. This will be achieved through short inputs, regular tasks, readings, discussions and exchange with the lecturer. Exam will be held by mid December at the latest.	none	School of Information Technology, Thomas Wallimann	Rotkreuz

Autumn	I.BA_BUINT	Business	Business Intelligence	Basic	3	1 Semester	This module introduces the students to the concept of Business Intelligence as the application of approaches and methods of data analytics to support decision-making processes, using the "R" language, as reference. The module follows a mixed approach, combining knowledge transmission by direct input, knowledge elicitation by discussion and competence creation by direct students exploration and application, including a didactic project. Exam will be held by mid December at the latest.	none	School of Information Technology, Luca Mazzola	Rotkreuz
Autumn	I.BA_DSTPS	Business	Digital Strategies, Products & Services	Basic	3	1 Semester	The module includes a systematic view of the impact of digitalization on business models and strategies. It will be explained how digitalization affects the whole value chain and internal organizational structures of a company in order of offer innovative customer orientated services and products. Exam will be held by mid December at the latest.	none	School of Information Technology, Ulrich Egle	Rotkreuz
Autumn	I.BA_FININ	Business	Finance & Investments	Basic	3	1 Semester	In time of disruption, macroeconomic turmoil and volatile markets students in International IT-Management assess projects with different methods of capital budgeting, evaluate business models and companies, and are familiar with possibilities of financing (including leverage effect, M&A). Because debt as well as equity can be traded on financial markets they understand the logics & principles of efficient market theory and behavioural finance. Exam will be held by mid December at the latest.	none	School of Information Technology, Stefan Kull	Rotkreuz
Autumn	I.BA_BUPIC	Business	Intercultural Business Project	Basic	6	1 Semester	In an international environment it is important to behave appropriately to people who have grown up with different attitudes and values. The main goal of this module is to provide theoretical and practical examples whereby you will examine your own cultural background, attitudes, values and biases and gain knowledge and skills in the area of cross-cultural management. Exam will be held by mid December at the latest.	none	School of Information Technology, Ute Klotz	Rotkreuz
Autumn	I.BA_INTLA	Business	International Law	Basic	3	1 Semester	Legal principles and legal systems from various culture groups and regions, their relationships with each other and the resulting consequences for international business relations	none	School of Information Technology, Ueli Grütter	Rotkreuz
Autumn	I.BA_PMPCT	Business	Project Management, Professional Communication & Teamwork	Basic	6	1 Semester	Project management, professional communication, teamwork and self-organisation are the main topics of this module. Students will develop their own ideas based on a given task and present them in a professional way to a specific audience. The module will also provide an opportunity to learn basic principles of project management, interview techniques and using makerspaces/fablabs. These topics are offered in the form of input lectures, discussions and in-depth exercises.	None	School of Information Technology, Ute Klotz	Rotkreuz
Autumn	I.BA_ABIZ	Business	Algorithmic Business	Intermediate	3	1 Semester	In 2015 Gartner coined the term "Algorithmic Business" to describe this next step in digital business and to pay tribute to the latest groundbreaking developments in artificial intelligence, machine learning (e.g. deep learning), optimization and digital image processing. The focus is on the profitable combination of algorithms and products adapted to them.	basic knowledge in Entrepreneurship	School of Information Technology, Sita Mazumder	Rotkreuz
Autumn	TA.CON	Business	Controlling	Intermediate	3	1 Semester	Understanding business, investment budgeting, controlling along the value chain, management information.	Basic skills in Accounting	School of Engineering and Architecture, Michael Blankenagel	Horw
Autumn	TA.BA_INTMA	Business	International Marketing	Intermediate	3	1 Semester	Importance of international marketing for companies active in today's business environment, assessment of international environment, importance of cultural diversity, development of international marketing strategies and marketing instruments, management and organization of international marketing activities, application in case studies and in a business simulation in teams.	Basic skills in Marketing	School of Engineering and Architecture, Sascha Götte	Horw
Autumn	TA.BA_LEAD.01	Business	Leadership	Intermediate	3	Intensive Week 05.09. - 09.09.22	Leadership is understood, in this course, to include self-development, managing and leading others, and learning how a leadership vision is generated in challenging environments. This is accomplished through self-assessments, and through critical examination of specific leaders and industry contexts. Each student is challenged to identify his/her leadership potential at a personal, organizational, and socio-political level.	none	School of Engineering and Architecture, Michael Kellerhals	Horw
Autumn	TA.CE_SB	Interdisciplinary Module	Corporate Ethics and Social Behavior	Advanced	6	1 Semester	Through case studies, exposure to aspects of ethically critical corporate activity; consider problems from a variety of stakeholder perspectives and reach judgments that take account of power relationships, information requirements and ethical responsibilities; concepts of sustainability will be presented as well as methods and measures to assess the sustainability of specific decisions and situations; regulatory and political factors influencing the impact of a corporation on sustainable development.	Junior Student	School of Engineering and Architecture Claas Wagner	Horw
Autumn + Spring	TA.BA_INTPRO	Interdisciplinary Module	International Project	Appropriate for all levels	6	1 Semester (Monday and Tuesday morning (weekdays)) 4 lessons per week: input and coaching	The international project is a highly hands-on project module. International teams of students are solving real life challenges provided by a Swiss industry partner (e.g. Siemens or Schindler). In this course you will get an introduction to the Design Thinking Method, apply it and deepen your competencies in problem solving and project management. The final deliverable is a professional report and a presentation of the end results.	not stated	School of Engineering and Architecture, Isabelle Hauser	Horw
Autumn	I.BA_ASTA1	Interdisciplinary Module	Applied Statistics 1	Basic	3	1 Semester	The students will learn how to summarize graph data. They will learn about different measures of central tendency and variation and when to apply which measure. The students will learn how to calculate and interpret relationships between two sets of data, and apply this knowledge to a statistics project.	none	School of Information Technology, Marc Locher	Rotkreuz
Autumn	I.BA_ASACPH	Interdisciplinary Module	Asia Culture, Politics & History	Basic	3	1 Semester	This course will address the cultures, histories, political systems, and religion of four Asian countries. Students will learn about China, India and two other countries. Lessons will consist of groupwork, presentations, interactive media, and discussions. Exam will be held by mid December at the latest.	none	School of Information Technology, Benjamin Haymond / Krishna Penmetsa	Rotkreuz
Autumn	TA.BA_OEK	Interdisciplinary Module	Ecology	Basic	3	Intensive Week 12.09. - 16.09.22	Relationships and life cycles in ecosystems, effects of climate gases on the environment and the atmosphere, eco-balances (e.g. regarding tourism), and environmental policies and economics. Energy sources and a special emphasis to the scientific and technological background of nuclear and renewable energy sources, like wind, water, geothermal, and solar power and biomass.	Entry requirement: none	School of Engineering and Architecture, Marc Achermann	Horw

Autumn + Spring	TA.BA_SWISS_ISA	Interdisciplinary Module	Swissness	Basic	3	1 Semester	Introduction to the culture of Switzerland: politics, the economy, languages, the arts, leisure and other aspects of Swiss culture are examined; foster an understanding of the host culture; includes 1-2 excursions and discussions with invited experts; competencies in methodological, social and academic aspects.	not stated	School of Engineering and Architecture, Nina Zimmik	Horw
Autumn	TA.BA_ME+TE	Interdisciplinary Module	Technology and Society	Basic	3	Intensive Week 12.09. - 16.09.22	Reflection of ethical and legal questions of the topic "Technology and Society"; knowledge-acquisition of this reciprocal relation; understanding of the idea, the origin, the significance and the justification of human rights as ethical frame of reference; recognizing human rights challenges and development of options of individual contribution to the realization of human rights.	You have at least completed the first semester of their studies.	School of Engineering and Architecture, Peter Kirchschläger	Horw
Autumn	TA.ASIA.01	Interdisciplinary Module	Asia	for all levels (Intermediate)	3	Intensive Week 12.09. - 16.09.22	Introduction to culture and economy of Asian countries (China, India, Japan, South Korea), key success factors for business, do's and don't's of doing business in China, Chinese language and writing, conflict areas in China, "Schindler Day": experience reports of Schindler employees. <a href="https://www.isa-campus.ch/en/angebote/asia/">https://www.isa-campus.ch/en/angebote/asia/</a>	none	School of Engineering and Architecture, Christian Schmid	Horw
Spring + Autumn		more interdisciplinary courses can be found here: <a href="https://www.isa-campus.ch/en/angebote/">https://www.isa-campus.ch/en/angebote/</a>								
Autumn	W.SZ_ENG_IECC	Language	Intercultural and English Competence Course B2	Intermediate	3	Intensive Course from 05.09. - 09.09.22	This intensive module in English concentrates on both written and oral communication in English. The immediate aim is to enable students to apply their English more competently in degree-course subjects. The course begins with personalized feedback on set writing tasks and a check-up on written standards, including grammar, spelling, punctuation, paragraphing and text/discourse construction. It then moves on to consider verbal and non-verbal elements in presentations and discussions. A further aim is to enable students to improve their intercultural communication in English. The topic of intercultural communication will be enhanced by the collaboration between participants from the various disciplines with overseas students. ( <a href="https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/sprachenzentrum-ausschreibung-und-anmeldung/intercultural-and-english-competence-course-b2/">https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/sprachenzentrum-ausschreibung-und-anmeldung/intercultural-and-english-competence-course-b2/</a> )	English Level B1 - B2	School of Business, Jilaine Farrar	Luzern
Autumn	LBA_AEDCIT	Language	IELTS Academic Preparation	Advanced	3	1 Semester	This course will prepare students for the IELTS Academic Test and will cover the skills of reading, listening, writing, and speaking in preparation for the test. Grammar, vocabulary, and pronunciation will also be included as key components of the course. The target level is C1 (Band 7.0). Students will be regularly assessed during the semester.	English Level B2+	School of Informaiton Technology, Benjamin Haymond	Rotkreuz
Autumn	LBA_ENGDBU	Language	English for Digital Business	Intermediate	3	1 Semester	In this module, students become familiar with management communication topics (e.g. digital marketing, e-finance, social media). In addition, they acquire the necessary language skills to be able to operate successfully in the digital context. In particular, their ability to interact orally is also promoted by learning about current topics related to Exchange management in the digital environment.	English Level B2	School of Information Technology, Benjamin Haymond	Rotkreuz
Autumn	LBA_ENGTCS	Language	English for Technical & Computer Science	Advanced	3	1 Semester	Students will familiarize themselves with the topics relating to computer science, cybersecurity, and communication. The course will focus on improving student lexical knowledge, writing skills in the form of summaries, and speaking and discussion skills through the exploration of various topics in the field of computer science, cybersecurity and other related topics.	B2+ / C1 Level in English	School of Information Technology, Benjamin Haymond	Rotkreuz
Autumn	TECW	Language	English Technical Writing	Advanced	3	1 Semester	Introduction to networks, principles of IP addressing, fundamentals of Ethernet LAN, building simple LAN, configure routers and switches, routing protocols such as OSPF, inter-VLAN routing, IPv6.C11:J12	Entry requirement: English C1	School of Engineering and Architecture, Irene Dietrichs	Horw
Spring + Autumn		More language courses can be found here: <a href="https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/">https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/</a>								

(1) One ECTS credit represents 25 to 30 working hours. An academic year is equivalent to 60 ECTS credits. In order to acquire a Bachelor's degree, 180 ECTS credits are required, while 90 to 120 ECTS credits are required for a Master's degree.

#### Spring Semester

Semester	Course Code	Field of Study	Course Name	Level	ECTS Credit (1)	Duration	Brief Description of Module	Prerequisite (General: English level at least B2)	Responsible	Campus
Spring	LBA_AIOT	Information Technology & Computer Science	Advanced Internet of Things	Advanced	3	1 Semester	Students learn how to build industry-grade IoT solutions using real-world IoT cloud platforms (AWS, Microsoft Azure, Google Cloud, IBM Cloud). In addition to practical experience with major IoT cloud platforms, topics include: IoT protocols (MQTT, LoRA, BLE) and how to use them in applications, end-to-end solutions from the sensor devices, data processing and storage in the cloud, to remote device management, security aspects and time-series analysis of sensor data. This course dives into the cloud aspects towards technologies that transform businesses and peoples' lives.	Introductory course "Internet of Things" passed. Elementary programming skills in C or Python, Linux command line environment and shell scripts, networking fundamentals.	School of Information Technology, Angela Nicora	Rotkreuz
Spring	LBA.AICH	Information Technology & Computer Science	AI Challenge	Advanced	12	1 Semester	In this module, students participate in national and international AI Challenges and compete against other universities or organizations. Significant prize money is sometimes (but not always) at stake. Students will be supported to be ambitious and win these competitions. The challenges are, for example, competitions from Kaggle or RoboCup, or relevant Hackathons.	Intermediate knowledge in Data bases, big data, data visualization, machine learning	School of Information Technology, Jana Koehler	Rotkreuz
Spring	I.BA_AIHLTH	Information Technology & Computer Science	Artificial Intelligence for Healthcare - Guest Lectures	Advanced	3	1 Semester	Artificial Intelligence for Healthcare Introduction to applications of Artificial Intelligence in Healthcare starting from practical examples. This includes clinical diagnosis as well as the broader medical industry in contexts such as pharmacy, medical devices and remote care. Analysis of potential and challenges of Machine Learning in the domain of Healthcare.	Advanced Machine Learning, Basic knowledge of Python, Medizintechnik basic knowledge	School of Information Lionetti Simone	Rotkreuz
Spring	LBA_NLP	Information Technology & Computer Science	Natural Language Processing	Advanced	9	1 Semester	Natural language processing (NLP) is a subfield of linguistics, computer science, and AI concerned with the interactions between computers and human language, in particular how to program computers to process and analyse large amounts of natural language data. We cover text-processing, semantics analysis, sentiment analysis, document classification and chatbots, as well as the latest deep learning methods for NLP. (9 ECTS)	Advanced Machine Learning	School of Information Technology, Alexander Denzler	Rotkreuz

Spring	I.BA_APMAT	Information Technology & Computer Science	Applied Mathematics	Basic	3	1 Semester	Quantitative economic models, functional terms and techniques used in differential calculus, modelling economic factors, and quantification of changes	none	School of Information Technology, Locher Marc	Rotkreuz
Spring	I.BA_BUSOD	Information Technology & Computer Science	Business Software Development	Basic	3	1 Semester	Starting from a business process, the students learn how to develop a distributed software application, which should support this process, step by step. Foundations of procedure and technical concepts are taught and practiced. Based on the content conveyed, students will create a prototype for a business process.	none	School of Information Technology, Aakanksha Tiwari	Rotkreuz
Spring	I.BA_DAMGT	Information Technology & Computer Science	Data Management	Basic	3	1 Semester	Data is considered the new oil, as it fuels our modern, tech-driven society. As such, it's crucial to understand what data actually is, how it can be transformed into information or knowledge and which data types exist. Based-upon this, different data management methods can be chosen to harness the opportunities, provided by data. This module provides an overview of all relevant aspects linked to data management, with a strong focus on storage and retrieval. In a first step, modelling, building and querying of relational databases is covered in such depth that it enables students to build their own database as part of a group work. The second step focuses on so-called NoSQL databases, which have gained strong significance over the past years, especially in the domain of Big Data. Here, the focus will be applied on graph databases. The course follows a very strong "hands on" approach, with theoretical input being limited to 45-60min per block. Three different eLearning platforms are provided for practical training. 1.) Relational Database Exercise Workbench 2.) Graph Database (Neo4j) Exercise Workbench 3.) Blockchain Exercise Workbench.	none	School of Information Technology, Alexander Denzler	Rotkreuz
Spring	I.BA_DASB	Information Technology & Computer Science	Data Science Basics	Basic	3	1 Semester	This module is carried out within the framework of the Major Data Engineering and Data Science. It provides a systematic introduction to the fundamentals of data engineering and data science through an introduction to data analysis with the programming language R.	knowledge about data management, database systems	School of Information Technology, Michael Kaufmann, Luca Mazzola	Rotkreuz
Spring	I.BA_ERPAP	Information Technology & Computer Science	ERP-Systems	Basic	3	1 Semester	Enterprise Resource Planning (ERP) Systems are IT-based information systems which closely integrate business data and business processes across a business as well as across multiple businesses. That kind of systems is actually used by many businesses big and small and in different industries. IT and business are deeply interlinked and dependent of each other. Solid knowledge about ERP systems is indispensable for an IT professional.	None	School of Information Technology, Thomas Gysler	Rotkreuz
Spring	TA.BA_LINALG	Information Technology & Computer Science	Linear Algebra	Basic	3	1 Semester	Basics of linear algebra, including matrix algebra and its applications, especially with regard to differential equations; modeling and discussion of application problems; solution of mathematical problems using analytical and numerical processes and their graphical representation, particularly when using numerical software such as MATLAB.	Entry requirement: Basic Mathematics Theory	School of Engineering and Architecture, Scheiblechner Peter	Horw
Spring	TA.BA_MA+PHY1	Information Technology & Computer Science	Mathematics and Physics Technology 1	Basic	6	1 Semester	Basic concepts of mechanics and required mathematical tools. The latter include complex numbers, polynomials and differential equations. Based on these mathematical tools the following subjects in physics are covered: dynamics of point masses and rigid bodies using Newton's laws, the concepts of energy, work and momentum, and conservation laws in translational and rotating systems.	Entry requirement: Basic Mathematics Theory	School of Engineering and Architecture, Marc Achermann	Horw
Spring	I.BA_WECOT	Information Technology & Computer Science	Web & Communication Technologies	Basic	3	1 Semester	After an introduction to corresponding markup and programming languages, a larger project is carried out. In the theoretical part the students will get to know the OSI model and some network protocols. The main emphasis is on IP and especially on the protocol family important for the World Wide Web. Basic knowledge of HTML and CSS is taught as well as some insights into scripting languages for clients and for web servers to create dynamic pages and connect to databases. Alongside the theory lessons, the students will work in groups on a (self-defined) project, aimed at a web presence with database connection or a web service, but also at the configuration of a VoIP telephone exchange in their own shared flat.	none	School of Information Technology, Martin Zimmermann	Rotkreuz
Spring	TA.APC	Information Technology & Computer Science	Applied Process Control	Intermediate	3	1 Semester	Definition of signal and systems. Understanding of feedback loops. Use of the Laplace transformation to describe linear time invariant systems. Analysis of the stability of controlled processes. Introduction to PID controller. Simulation of closed-loop controlled processes with Matlab/Simulink. Understanding of basic controller development methods.	Entry requirement: Basic Mathematics Theory	School of Information Technology, Thierry Prud'homme	Horw
Spring	I.BA_BUPT	Information Technology & Computer Science	Business Project 1 Technology	Intermediate	3	1 Semester	This business project module with a focus on technology requires students to apply simultaneously what they have learned in business software development, web- & communication technologies, and data management, by developing a complete system from business case, analysis, design, and programming to implementation strategies. Students work in teams to develop a significant product.	none	School of Information Technology, Ute Klotz	Rotkreuz
Spring	I.BA_DVIZ	Information Technology & Computer Science	Data Visualization	Intermediate	3	1 Semester	Data Visualisation for AI and Machine Learning Principles and concepts for the visual presentation of information. Design strategies for methods of presentation. Histories, theories and best practice for compelling data visualizations. Hands-on project work and case studies in applied data visualization. Independent assessment of design decisions concerning human perception and the significance of the visualization. Interactive visualizations.	Basic knowledge in Artificial Intelligence and Machine Learning	School of Computer Science and Information Technology, Teresa Maria Kubacka	Rotkreuz
Spring	TA.BA_PDP2	Information Technology & Computer Science	Engineering Product Development Project 2	Intermediate	6	1 Semester	Engineering project: experiencing the development of a product in an interdisciplinary team. Integrate the solution-parts to realize, test and demonstrate the overall system concept. Presentation and visualization of solutions, design concepts and the final result to the public. Exam: Group presentation during exam period	Entry requirement: TA.BA_PDP1	School of Engineering and Architecture, Simon Züst	Horw
Spring	I.BA_GAME_MM	Information Technology & Computer Science	Game Theory	Intermediate	3	1 Semester	The course introduces the basic concepts, models and methods of game theory and its applications. Game theory is a branch of mathematics that analyzes strategic interactions and conflicts between rational decision-makers in a systematic, model-based way. It has deeply rooted into many parts of life, technology, politics and business with applications to biology and evolution, social interactions and dilemmas, military conflicts, marketing and advertisements, telecommunications, transport, taxation, insurance, economics, stock markets, and artificial intelligence. In this module we will explore the foundations of game theoretical description of conflicts and mathematical models that are used to resolve them, meaning finding the optimal strategy accounting for opponents' responses. We will explore non-cooperative and cooperative games, dynamic games and repeated games, games with imperfect or even incomplete information. The module will describe most prominent game-theoretical concepts (such as optimal strategy, Nash equilibrium, sub-game perfection, Shapely value) and their applications within classical toy-examples and real-world cases.	Knowledge about Linear Algebra and Statistics required	School of Information Technology, Vladimir Filimonov	Rotkreuz

Spring	I.BA_INFSC	<b>Information Technology &amp; Computer Science</b>	<b>Information Security</b>	Intermediate	6	1 Semester	Typical organizational and technical threats; security objectives in information security; fundamental measures and concepts on an organizational, system and network level; basics of cryptography.	none	School of Information Technology, Toggweiler Philipp	Rotkreuz
Spring	I.BA_CLOUDS EC	<b>Information Technology &amp; Computer Science</b>	<b>Cloud Security</b>	Intermediate	3	1 Semester	Cloud Computing is the new way of computing by today, and cloud security is an essential prerequisite and enabler for successful cloud operations. In addition, control and compliance aspects need to be addressed to provide the right environment within which organisations can use cloud. This module provides an overview of technical cloud security elements & introduces cloud relevant compliance frameworks.	to be checked	School of Information Technology, Andrew Hutchison	Rotkreuz
Spring	I.BA_KNRE_MM	<b>Information Technology &amp; Computer Science</b>	<b>Knowledge Representation</b>	Intermediate	3	1 Semester	This module introduces the students to the different aspects of knowledge representation in AI. The different forms for representing and manipulating knowledge, the inference process over it and its usage in artificial agents are covered, as well as their extension to take into account uncertainty and probability reasoning with time-related aspects are covered for decision-making, both in simple and more complex settings.	Basic knowledge of math and statistics	School of Information Technology, Luca Mazzola	Rotkreuz
Spring	I.BA_ML	<b>Information Technology &amp; Computer Science</b>	<b>Machine Learning</b>	Intermediate	6	1 Semester	Fundamental techniques, models and architectures for supervised and unsupervised learning targeted to structured and unstructured data: regression and classification models, clustering, market basket analysis, recommender systems. Introduction to deep learning with applications to image and text analysis.	Students are expected to have already studied math and programming and to be strong at both subjects - further details when interested pls get in touch	School of Information Technology, Marc Pouly	Rotkreuz
Spring	I.BA_SWENG	<b>Information Technology &amp; Computer Science</b>	<b>Software Engineering</b>	Intermediate	3	1 Semester	The students get an introduction to the broad field of Software Engineering. The complete life cycle of a software system is covered, step-by-step, from inception to release.	basic programming skills	School of Information Technology, Toggweiler Philipp	Rotkreuz
Spring	TA.BA_DBM	<b>Business</b>	<b>Digital Business Models</b>	Advanced	3	1 Semester	The module explains what is business model innovation and what is it used for. It reveals how business model innovation is embedded in strategic management. The module introduces the most important business model frameworks and provides hands-on guideline to select, develop, and apply them. In the course of studies an overview of the most important digital technologies will be provided as an enabler for disruptive business model innovations. The students will apply a business model innovation framework to a real-life (digital) case study.	Basic knowledge in Strategic Management and Product Management and Controlling	School of Engineering and Architecture, Bastian Widenmayer	Horw
Spring	TA.BA_ONMA	<b>Business</b>	<b>Online Marketing</b>	Advanced	3	1 Semester	The module discusses the relevance and use of Online Marketing as part of companies marketing actions and concepts. Therefore the module will allow the students to know the current and common instruments of Online Marketing, how to integrate them into an overall marketing strategy and how to control their actions and the success of them. All this by considering the risks and possibilities. For that the course will discuss different case studies and practical examples. Didactic methods: lecture and discussions, guided workshops and self-studies, case studies incl. presentation through the students, guest lectures from experts.	Basic knowledge in Strategic Management and Product Management and Controlling	School of Engineering and Architecture, Angelos Apostolidis	Horw
Spring	TA.BA_OAE	<b>Business</b>	<b>Operations Excellence</b>	Advanced	3	1 Semester	Deepened analysis of the Supply Chain of industrial companies, in search of Excellence, based on the principles and tools of the Toyota Production System and its evolution into Lean Management. These concepts and tools will be explained and applied in several case studies and in a final production simulation game, so that participants will "touch with their hands" the significant difference between traditional and „lean“ approaches in Operations.	senior students	School of Engineering and Architecture, Fabio Mercandetti	Horw
Spring	TA.BA_SI	<b>Business</b>	<b>Service Innovation</b>	Advanced	3	1 Semester	The focus is on service innovations that aim to make the most of high value capital equipment. The creation of high impact innovation by cross-functional project teams will be discussed. The Stage Gate innovation process will be described and limitations will be discussed within the context of service products and service industries.	Knowledge in Controlling, Strategic Management & Product Management	School of Engineering and Architecture, Shaun West	Horw
Spring	I.BA_BUPEC	<b>Business</b>	<b>Business Project 2 Economics</b>	Basic	6	1 Semester	This module gives you a theoretical and practical introduction to applied economics or social science research. You will select a research question, run a literature search, apply at least one method to collect and analyze data, and write a final research paper. The topics range from Universal/Unconditional Basic Income, Future Social Welfare, Cooperatives, On-Demand Economy to Labor Unions.	none	School of Information Technology, Ute Klotz	Rotkreuz
Spring	TA.IGM	<b>Business</b>	<b>Industrial Marketing</b>	Basic	3	1 Semester	Fundamentals, significance and demarcation of industrial marketing. Learning and applying the relevant concepts and special features of marketing in the area of industrial products. Preparation, discussion and application of the essential instruments used for this purpose with a focus on the three central perspectives for determining a comparative competitive advantage and of the four essential business typologies for product, plant, system and supply business.	Knowledge in marketing management and accounting	School of Engineering and Architecture, Markus Raschke	Horw
Spring	I.BA_INTAF	<b>Business</b>	<b>International Affairs Economics</b>	Basic	3	1 Semester	The International Affairs & Economics module focuses on the theories of international relations and applies them to the United States of America, the European Union and China. For each player, foreign policy as well as economic development and strategies to react to economic and political challenges will be analysed.		School of Information Technology, Stefan Kull	Rotkreuz
Spring	I.BA_INTAC	<b>Business</b>	<b>International Financial Accounting</b>	Basic	3	1 Semester	Students will learn about how financial information about a company is gathered and entered into accounting / ERP systems correctly. Only good quality data allows good, focused reporting. Students will learn how to interpret and explain financial reports (balance sheet, income statement, cash flow statement) and how to become proficient in managing cash flows. This pertains to projects as well as to their own companies. They have to be able to draw up a budget and stick to it.		School of Information Technology, Thomas Gysler	Rotkreuz
Spring	TA.BA_MM+RW	<b>Business</b>	<b>Marketing Management &amp; Managerial Accounting</b>	Basic	6	1 Semester	Basics of marketing, knowledge and application of methods used in marketing research, concepts, implementation and controlling, use of financial accounting, reporting and analysis, cost accounting, accounting records, and calculation as a decision-making tool with application in a simulation throughout the entire semester.	none	School of Engineering and Architecture, Michael Blankenagel	Horw
Spring	I.BA_STMG	<b>Business</b>	<b>Strategic Management</b>	Basic	3	1 Semester	The module Strategic Management includes a systematic approach and integrated view on various corporate strategies. In a first step, students learn how to "read" and analyse corporate strategies. In a second step, they will take a deep dive into strategy development learning how to go about the strategy process and strategy content. Methodologically it will be focused on applying a conceptual framework including normative, strategic and operational management levels including the use of different tools out of the strategy toolbox. Finally, framework and tools will be applied in case studies.	none	School of Information Technology, Helen-Deborah Maier	Rotkreuz
Spring	I.BA_ABIZ	<b>Business</b>	<b>Algorithmic Business</b>	Intermediate	3	1 Semester	In 2015 Gartner coined the term "Algorithmic Business" to describe this next step in digital business and to pay tribute to the latest groundbreaking developments in artificial intelligence, machine learning (e.g. deep learning), optimization and digital image processing. The focus is on the profitable combination of algorithms and products adapted to them.	Basic knowledge of Entrepreneurship	School of Information Technology, Kevin Kuhn	Rotkreuz
Spring	I.BA_INMAC // I.BA_MAAC	<b>Business</b>	<b>International Management Accounting</b>	Intermediate	3	1 Semester	This module is for you: if you wish to understand the concepts and instruments that enable effective management information; if you are interested in the tools to be used in a company, thereby contributing to the implementation and tracking of business targets; if you are interested in the systematic analysis of cost, expenses and prices; if you seek to know how systematic business plans are set up and structured.	Basic skills in Accounting	School of Information Technology, Thomas Gysler	Rotkreuz



Spring	LBA_ACMET	Interdisciplinary Module	Academic Methods	Basic	3	1 Semester	This course will explore different methods for conducting scientific research. Primary data collection methods to be covered will include questionnaires/surveys, key informant interviews, participatory observation, and text mining. We will explore low-tech ways to analyze qualitative and quantitative data. We will also arrange a class in a (qualitative) hightech method such as MAXQDA or ATLAS.ti software. In this module we would also like to use a peer assessment as the process of evaluating peers' work can enhance the evaluators' own learning and self-confidence.	none	School of Information Technology, Maier-Hummel Manuela	Rotkreuz
Spring	LBA_ANCPH // LBA_ANGCPH	Interdisciplinary Module	Anglo-Saxon Culture, Politics & History	Basic	3	1 Semester	This course will address the cultures, histories, and political systems of four Anglo-Saxon countries. Starting with England and the U.S., students will examine four unique aspects: political systems, important historical trends, major religious movements, and artistic and cultural movements of these countries. Students will also study these aspects in two additional countries such as Scotland, Ireland, Canada, Australia, and New Zealand, and South Africa.	none	School of Information Technology, Benjamin Haymond	Rotkreuz
Spring	LBA_ASTA2	Interdisciplinary Module	Applied Statistics 2	Intermediate	3	1 Semester	The students will learn about different probability distributions. They will be able to calculate and interpret estimates and test statistical hypothesis. Students will learn about the chi-square test and be able to analyse variance. Acquired knowledge will be applied in the statistics project.	Applied Statistics 1 or Basic Knowledge about Statistics	School of Information Technology, Marc Locher	Rotkreuz
Autumn + Spring	TA.BA_INTPRO	Interdisciplinary Module	International Project	Appropriate for all levels	6	1 Semester (Monday and Tuesday morning (weekly))	The international project is a highly hands-on project module. International teams of students are solving real life challenges provided by a Swiss industry partner (e.g. Siemens or Schindler). In this course you will get an introduction to the Design Thinking Method, apply it and deepen your competencies in problem solving and project management. The final deliverable is a professional report and a presentation of the end results. 4 lessons per week: input and coaching 4+ lessons per week: self organized work in project groups, prototyping, user tests, etc.	none	School of Engineering and Architecture, Christine Grimm	Horw
Spring	TA.BA_RECY	Interdisciplinary Module	Recycling and its Impact on Sustainability	Basic	3	Intensive week: Mo, 13.02. - Fr, 17.02.2023 - register early!	Resource needs and energy use associated with products that are recycled worldwide. Answering questions such as: How sustainable are the technologies and practices employed in recycling? Can renewable energies and different business models make recycling more sustainable? How does recycling affect local and global carbon footprints? Based on case studies a framework is developed for a systems modelling approach to product cycles and recycles.	none	School of Engineering and Architecture, Timothy Granata	Horw
Spring	TA.NA_ISA	Interdisciplinary Module	Sustainability	Basic	3	Intensive week: Mo, 13.02. - Fr, 17.02.2023 - register early!	Studies on central sustainability issues should lead from the catchword to problem analysis and to the discussion of solutions: Getting to know the concept of sustainability, its origin and its essential uses; insight into the economic, social and ecological dimension of sustainability and its basic concepts; assessment of sustainability criteria; indications of optimisation possibilities; reflection on the implementation of sustainability strategies using concrete examples. ( <a href="https://www.isa-campus.ch/en/angebote/sustainability/">https://www.isa-campus.ch/en/angebote/sustainability/</a> )	none	School of Engineering and Architecture, This Oberhänsli	Horw
Autumn + Spring	SWISS	Interdisciplinary Module	Swissness	Basic	3	1 Semester	Introduction to the culture of Switzerland: politics, the economy, languages, the arts, leisure and other aspects of Swiss culture are examined; foster an understanding of the host culture; includes 1-2 excursions and discussions with invited experts; competencies in methodological, social and academic aspects.	none	School of Engineering and Architecture, Nina Zimmik	Horw
Spring	TA.BA_WIND-ECO	Interdisciplinary Module	Windpower and Ecotechnology	for all levels	3	Intensive week: Mo, 13.02. - Fr, 17.02.2023 - register early!	Basics of wind energy engineering – starting with the determination of wind power potentials – applied to different kinds of turbines and systems, including selection of materials and components up to the estimation of electrical power production. Based on actual installations, the stakeholder analysis and environmental impact analyses are applied in order to assess the impact of emissions on humans and ecosystems.	none	School of Engineering and Architecture, Claas Wagner	Horw
Spring + Autumn		more interdisciplinary courses can be found here: <a href="https://www.isa-campus.ch/en/angebote/">https://www.isa-campus.ch/en/angebote/</a>								
Spring	W.SZ_ENG_IECC	Language	Intercultural and English Competence Course B2	Intermediate	3	Intensive Course in February 2023 probably 6. - 11.2.23	This intensive module in English concentrates on both written and oral communication in English. The immediate aim is to enable students to apply their English more competently in degree-course subjects. The course begins with personalized feedback on set writing tasks and a check-up on written standards, including grammar, spelling, punctuation, paragraphing and text/discourse construction. It then moves on to consider verbal and non-verbal elements in presentations and discussions. A further aim is to enable students to improve their intercultural communication in English. The topic of intercultural communication will be enhanced by the collaboration between participants from the various disciplines with overseas students. ( <a href="https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/sprachenzentrum-ausschreibung-und-anmeldung/intercultural-and-english-competence-course-b2/">https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/sprachenzentrum-ausschreibung-und-anmeldung/intercultural-and-english-competence-course-b2/</a> )	English Level B1 - B2	School of Business, Jillane Farrar	Luzern
Spring	LBA_CAEPRO	Language	Cambridge Proficiency Preparation	Advanced	3	1 Semester	Strategies for understanding academic lectures, plus scientific and literary texts; extension of general and academic vocabulary; development of relevant verbal and written skills for studies and the workplace; preparation for the Cambridge Certificate of Proficiency in English.	English level C1	School of Information Technology, Benjamin Haymond	Rotkreuz
Spring	LBA_AEDCTO	Language	TOEFL Preparation	Intermediate	3	1 Semester	This course will prepare students for the TOEFL iBT Test and will cover the skills of reading, listening, writing, and speaking in preparation for the test. Grammar, vocabulary, and pronunciation will also be included as key components of the course. The target level is C1 (96points and above). Students will be regularly assessed during the semester.	English level B2+ - C1	School of Information Technology, Benjamin Haymond	Rotkreuz
Spring	LBA_ENGFTD	Language	English for Future Technology Development	Intermediate	3	1 Semester	This course will examine topics such as big data and data analytics, AI & robotics, the modern workplace and digital security. Students will develop skills in correspondence and presentations. Classes will consist of discussions, presentation and writing practice. The course evaluation will consist of two podcasts due mid semester and a written exam all graded at a B2+/C1 scale.	English level B2	School of Information Technology, Benjamin Haymond	Rotkreuz
Spring	LBA_ENGSDC	Language	English for Strategic and Digital Communication	Advanced	3	1 Semester	This course will develop students' English communication skills. Argumentation and persuasive techniques will be taught through the window of digital communication (blogsand webinars) with topics including presentations, global communication, social media and team building. Students will be evaluated through the submission of a vlog or webinar (due: mid semester) and a written exam	English level C1	School of Information Technology, Benjamin Haymond	Rotkreuz
Spring	LBA_PROTCO	Communication	Professional and Technical Communication	Intermediate	3	1 Semester	This course will focus on the topic of professional communication and technical writing. It is open for students who have taken previous college level English courses or students with at least a B2 level. The course will include writing basics and focus on writing specific types of technical texts. Additionally, there will be three external lecturers who will cover academic writing, negotiations; and job applications and interviews. Grades will be based on submission of a written portfolio.	at least B2 level in English	School of Information Technology, Benjamin Haymond	Rotkreuz
Spring + Autumn		More language courses can be found here: <a href="https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/">https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/campus/language-centre/</a>								

(1) One ECTS credit represents 25 to 30 working hours. An academic year is equivalent to 60 ECTS credits. In order to acquire a Bachelor's degree, 180 ECTS credits are required, while 90 to 120 ECTS credits are required for a Master's degree.

Questions? Please contact the International Office ([international-i@hslu.ch](mailto:international-i@hslu.ch))