

LEVEL UP!

Bachelor

Master

Studies in Informatics
Informatikstudium
ifi.uzh.ch/studies



University of
Zurich^{UZH}

Five Major MSc study programs 90 ECTS credits

Information Systems IS	Software Systems SOSY	People-Oriented Computing POC	Artificial Intelligence AI	Data Science DS
Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS
Master's project 15 ECTS				
Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS
INF elective area 15 ECTS				
WWF elective area 6 ECTS				
Master's thesis 30 ECTS				

Minor study program of choice 30 ECTS credits

Informatics Information Systems Data Science Economics Business Administration Banking and Finance

Exemplary illustration. The framework ordinance and program regulations in their current versions have legal validity.

MAJOR

MINOR

Additional information

Application and admission

www.uzh.ch/en/studies/application

Academic programs of the Faculty of Business,
Economics and Informatics

www.oec.uzh.ch/en/studies

Information and advice

www.uzh.ch/en/studies/infoadvice

All Master's degree programs of UZH

www.degrees.uzh.ch/en/master

Central contacts

www.uzh.ch/en/contact



Studying Information Systems

Topics and Goals

Today's information and communication systems have a significant impact on the economy and society. They shape and change business processes within organizations, influence the ways in which we work, and open up new areas of business such as e-commerce and electronic services.

You have laid a foundation by completing your Bachelor's studies. In the Master's study program in Information Systems, you will broaden and deepen the knowledge you acquired during your Bachelor's study program, with the aim of enabling you to play an active role in shaping the changes that the economy experiences through informatics.

You will combine methods from the spheres of both informatics and management science, allowing you to take a holistic, comprehensive approach toward solving the problems that companies face. The program's emphasis is on the design and management of information systems and IT-based innovations.

Admission

The Faculty of Business, Economics and Informatics observes an open, quality-focused admissions policy based on the admissions regulations of UZH as well as its own regulations and practices.

In order to be admitted to a Master's degree program, you must meet the requirements set out in the «Ordinance on Admission to Studies at the University of Zurich». Students Services review the application in this regard. The Faculty will then subject the application documents to a specialized academic review and determine the applicant's level of study. The decision is based on an

evaluation of the curriculum of the program of studies completed, as well as other documents.

Categorization is only subject to a specialized academic review in the case of the major study program. It is carried out for the major program for which you have applied. Complementary to the major program, the minor program can be freely selected in line with the regulations. It is your responsibility to bridge any gaps, if applicable.

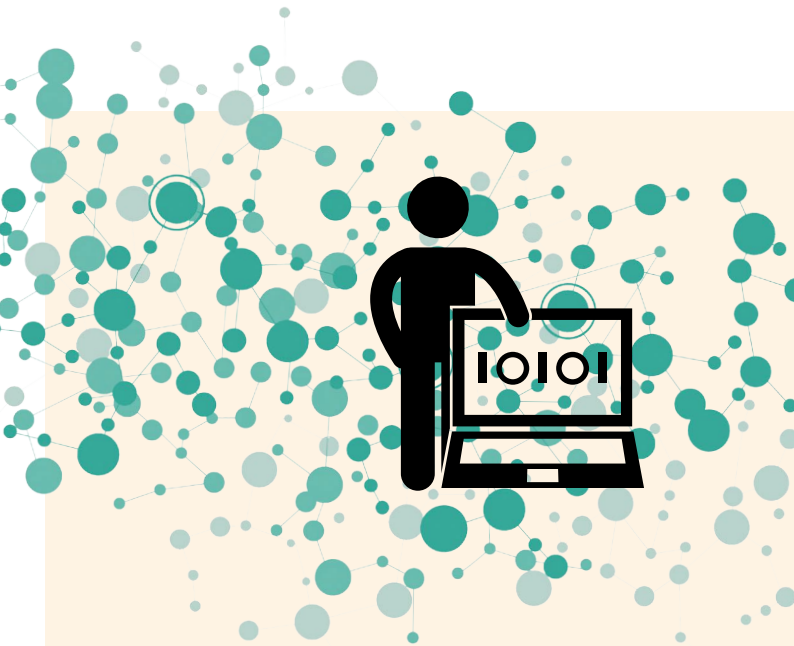
Career Prospects

As an information systems specialist with a Master's degree, you will have excellent career prospects at the juncture between business and informatics: you will work in demanding roles in business and administration where, as a business analyst for example, you will plan, test and direct the use of IT systems; consult on technical and organizational issues; manage corporate IT departments; create IT-based innovations and business models; or function as a methodically trained specialist.

Moreover, graduates with the right aptitude have the opportunity to complete a doctorate, an outstanding foundation for an academic career.

Special Notes

Various student organizations as well as alumni associations offer you a wide range of events and information concerning your studies. What's more, the University of Zurich's excellent international network will give you the opportunity to participate in a variety of exchange programs.



Studying Software Systems

Topics and Goals

Software as well as software-based systems have led to our world experiencing profound changes over the last 50 years. Software has become one of the key drivers of innovation.

You have laid a foundation by completing your Bachelor's studies. In the Master's study program in Software Systems, you will broaden and deepen the knowledge you acquired during your Bachelor's study program, with the aim of enabling you to play an active role in shaping the changes that the world experiences through software.

This study program focuses on the question of how to develop software-based systems in a systematic, economically efficient way, as well as how to use them and keep them up to date. It looks at everything from small apps and web applications to data management systems and all the way through to super-scaled systems networked on many levels.

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Career Prospects

With the in-depth knowledge gained during the Master's study program in Software Systems, you will be in demand in both the software industry and in the IT departments of all kinds of companies, where you will be assigned demanding tasks in roles such as software engineer, app developer, chief information officer – or you launch a startup.

Moreover, graduates with the right aptitude have the opportunity to complete a doctorate, an outstanding foundation for an academic career.

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Studying People-Oriented Computing

Topics and Goals

Informatics has a profound impact on humans and society, significantly changing patterns of communication, information, and social interaction in both our private and working lives. Conversely, it is people who are behind the forward march of informatics and who shape the informatics-based systems that change our world. Gone are the days when informatics was simply about solving problems using algorithms.

You have laid a foundation by completing your Bachelor's studies. In the Master's study program in People-Oriented Computing, you will broaden and deepen the knowledge you acquired during your Bachelor's study program, with the aim of enabling you to help shape information technology in a way that focuses on people and gain a better understanding of the interaction that takes place between people and computers.

Admission

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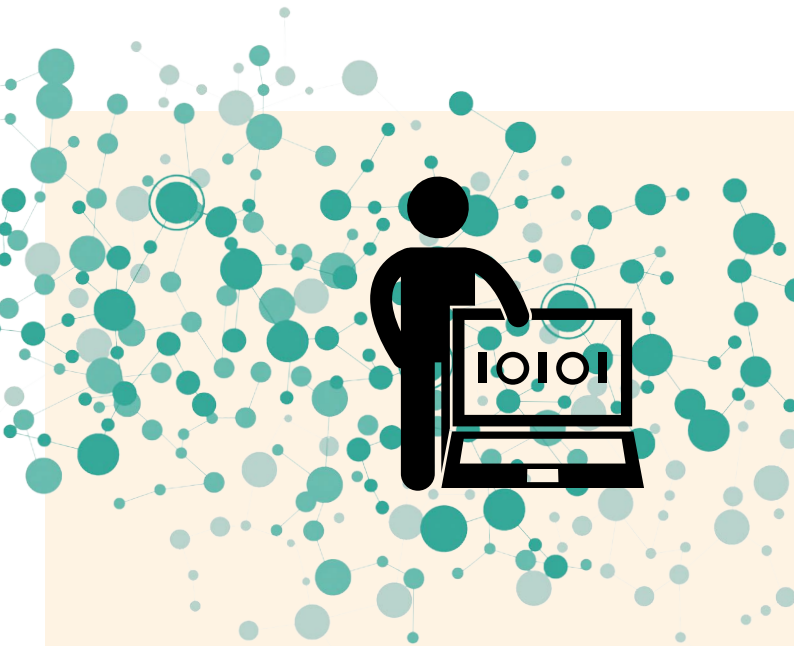
Career Prospects

With a Master's degree in Informatics, you will be in demand as a specialist who develops sophisticated, user-friendly software. Furthermore, the in-depth knowledge gained during the Master's study program will enable you to take on demanding tasks in roles such as project manager, interaction architect, analyst or consultant in any field involving the people-oriented design of information technologies and their effects on business and society.

Moreover, graduates with the right aptitude have the opportunity to complete a doctorate, an outstanding foundation for an academic career.

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Studying Artificial Intelligence

Topics and Goals

Artificial Intelligence is today's most important area of computer science. AI is everywhere: It recognizes what you say to Siri, Alexa, or Ok Google; it identifies faces or objects when you take pictures with your smartphone and upload them to Facebook or Instagram; it diagnoses tumors in medical images, or enables cars to understand the environment and drive by themselves. The goal is to implement intelligent behavior, such as the capability to learn and improve from experience, into machines or just any computer program. The major study program in Artificial Intelligence provides you with foundations and advanced skills, such as deep and machine learning, computer graphics, robotics vision, natural language processing, coordination of complex systems, as well as algorithmic and statistical skills.

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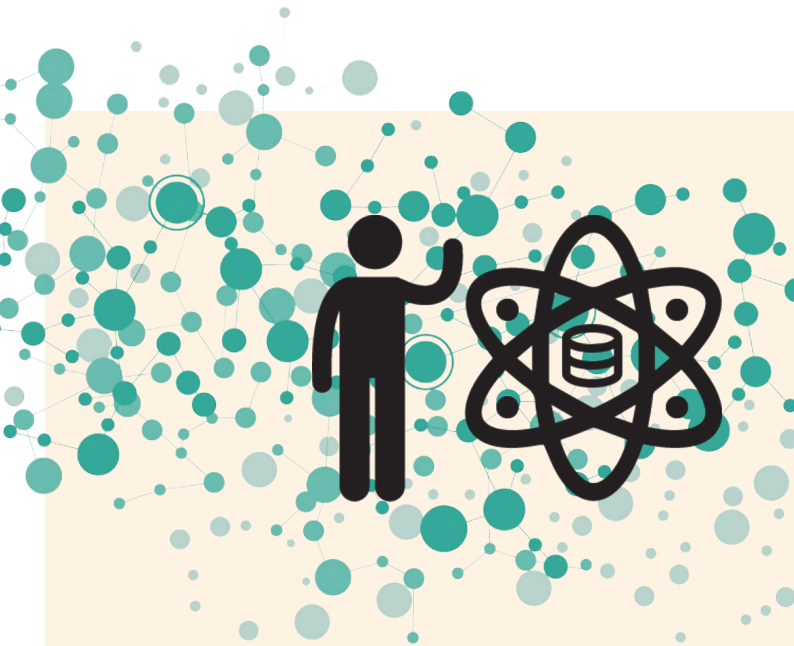
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Career Prospects

Knowledge of AI is today one of the most demanded expertises required by companies when hiring. Students graduating from this program will be able to apply their knowledge in many areas such as robotics, business forecasting, video games, computer vision, intelligent search, chat bots, medical diagnostics, and more. Moreover, graduates with the right aptitude have the opportunity to complete a doctorate, an outstanding foundation for an academic career.

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Studying Data Science

Topics and Goals

Big data and data-based decisions are among the greatest challenges facing us both today and in the future, given the lightning speed at which data is gathered, the vast quantities in which it is stored, and the constant new ways in which it is linked. How are these large and complex stocks of data processed and made usable? And how do you extract knowledge from data?

You have laid a foundation by completing your Bachelor's studies. At Master's level, you will deepen your knowledge through more practical-oriented work. In the Master's study program in Data Science, you will learn how to carry out professional analyses of large data quantities, recognize patterns, demonstrate relationships, and prepare results in appealing, interactive formats.

Drawing on techniques and theories from a range of fields including statistics, informatics, and cognitive sciences, this will give you the foundations for making strategic and operational decisions for individuals, companies, organizations, and society as a whole.

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Career Prospects

With a Master's degree in Informatics, you will be one of the few informatics specialists in Switzerland who focus particularly in analyzing and processing data – a field with a huge potential for the future. The spectrum of potential employers ranges from major companies in the service sector and international IT companies to specialized small firms.

Moreover, graduates with the right aptitude have the opportunity to complete a doctorate, an outstanding foundation for an academic career.

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