



Photo: Eva Dahlin

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Master's Programmes

Department of Computer and Systems Sciences, DSV





A unique and beautiful capital

Stockholm is a unique capital in many ways. It offers everything you expect to find in a cosmopolitan city; beautiful architecture, trendy shopping, museums, theatres, nightclubs, international food and a music scene that attracts stars nationwide and globally. On top of that, you are met by stunning waterfront views almost wherever you go, as Stockholm is built on fourteen islands.

A culture of innovation

Spotify, Skype, IKEA, King and H&M are a few of the most well-known Swedish brands. While the Global Innovation Index consistently rates Sweden as one of the world's most innovative nations, Stockholm is Sweden's business centre and named the "Start-up capital of Europe".

Safe, green and clean

Stockholm has recently been rated the safest capital in Europe and is famous for its many green and clean areas. You are never more than 300 meters away from a park in Stockholm!

An open society

Stockholm is leading in areas such as social welfare, equality, IT, sustainability and innovation. Known for being an open society, Sweden is also ranked second in the world in the Social Progress Index.

Welcome to DSV at Stockholm University!

Stockholm University

Welcome to Stockholm University, founded in 1878 in Stockholm, Sweden's capital city. Stockholm University is one of the 100 highest ranked universities in the world and Sweden's largest institution for higher education with top quality education and outstanding research in a wide variety of fields. 70 000 students are currently studying here, and we offer 75 master's programmes taught in English within science, the humanities, law and social sciences.



A place for free minds and new findings

Education and research are closely linked at Stockholm University. As a student, you will have direct contact with leading researchers in your field and access to the most recent scientific findings. You will develop your ability to think independently, to analyse and to solve problems, qualities that are required in advanced international careers.

International career opportunities

An education from Stockholm University prepares you for a career in Sweden and abroad. A new regulation is making it easier to launch an international career after studying in Sweden. Students with a residence permit for studies in Sweden, who have completed at least two semesters of fulltime studies at a Swedish university, may get a residence permit that allows them to stay in Sweden for up to six months to look for work or start a business.

Everything Nobel

The Nobel Prize is the most prestigious award in the world. Presented in Stockholm each year, many researchers at the university are part of the committees that elect the laureates.

The Department of Computer and Systems Sciences, DSV

Stockholm University's largest department - DSV, is located in the most extensive IT cluster in Sweden, Kista Science City, and has a close relationship with the IT industry, organisations and society. DSV belongs to the Faculty of Social Sciences at Stockholm University, and this gives a unique perspective that combines technology with social interaction and puts the human being and user in the centre of attention. The academic activities at DSV range over a wide field characterised by interdisciplin and focus on developing and adapting the use of IT to the needs of people, organisations and society.

Kista Campus, Nod Building

The learning environment in the newly built Nod Building is modern, with rooms for project work, lecture halls and computer labs with the latest technology that is continually updated. A wireless network covers the entire campus.

Contact us!

E-mail: prospectivestudent@dsv.su.se

Web: www.dsv.su.se/en

Department of Computer and Systems Sciences, DSV, offers nine Master's programmes - find a programme that suits you!

Campus or distance learning, one- or two-year masters or - if you have a Bachelor's degree in computer and systems sciences or no prior knowledge within the subject area - DSV offers a variety of Master's Programmes suitable for a lot of different interests and life situations.

Study one or two years

We offer both one year programmes as well as two year programmes depending on your goal. If you want to deepen your knowledge within the subject and perhaps enter a Ph.D. programme to pursue a career in research, you choose one of our two-year programmes. If you want to develop and improve your speciality or learn about a new subject area to become more attractive on the labour market, the one-year programme is for you!

One-year master's programmes

Computer and Systems Sciences 60 credits
IT Project Management 60 credits (distance)

Study on campus in Sweden or online from your home

DSV offers both campus programmes and online distance programmes. Three of our Master's Programmes are available online. All courses, assignments and exams are available through the learning platform, giving students the freedom of being location independent.

Online distance programmes

Decision analysis and Data science, 120 credits
Open eGovernment, 120 credits
IT Project Management, 60 credits



What's your academic background?

You can have a variety of academic backgrounds and find a Master's Programme at DSV.

If you have a Bachelor's degree within computer systems sciences, systems science, informatics or information systems, you are eligible to apply for all our nine Master's Programmes. The amount of credits required differs between the programmes, please read the specific requirements in each programme presentation in the brochure.

Programmes with general and specific entry requirements

Computer and Systems Sciences, 120 credits

Computer and Systems Sciences, 60 credits

Design for Creative and Immersive Technology, 120 credits

Health Informatics, 120 credits

IT Project Management, 60 credits (distance)

***If you have a Bachelor's degree in another subject area
and want a master in IT, we have programmes for you too!***

Programmes with general entry requirements

Decision analysis and Data science, 120 credits (distance)*

Information Security, 120 credits

Strategic Information Systems Management, 120 credits

Open eGovernment, 120 credits (distance)

* This programme requires 15 credits of programming or mathematics.

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

One year Master's Programme in Computer and Systems Sciences

Do you have a Bachelor's degree in Computer Science, Information Systems or similar? Do you want to become more attractive in the labour market? Is a two year master too long? Then this programme is for you!

The one year Master's Programme in Computer and Systems Sciences is a one year postgraduate programme for those who already have a Bachelor's degree in Computer Science, Information Systems or similar. The programme suits those who wish to broaden and deepen their skills and knowledge as a preparation for a successful professional career. It is also suitable if you have studied at another university and want to be closer to the labour market in the Stockholm region. In addition to being on site in Stockholm, you can meet with companies either on your own or at trade shows.

Compared with the Bachelor's level, you get a deeper knowledge of information technology, its role in business and society and how it interacts with humans. You will also get glimpses of emerging trends in the field and how future information technology can be used. The one year programme is focused on a selection of advanced electable and mandatory courses and includes a short thesis.

Career

Depending on the chosen courses, the programme is suitable for students aiming for a professional career within IT architecture, business architecture, systems analysis, information security or risk management.

What's your ambition?

The programme trains professionals in the field of Computer and Systems Sciences and Information Systems. During the programme, you will develop and gain a wide range of industry-related skills relevant to your resumé.

Requirements

A Bachelor's degree or a degree equal to 180 ECTS with a minimum of 90 ECTS within computer and systems sciences, systems science, informatics or information systems. Language requirements on page 16.

More information about the programme

Credits: 60

Language: English

Duration: 1 year

Study pace: 100%

Study form: On campus

Begins: Autumn

More information: <http://dsv.su.se/en/SDSVM>

Master's Programme in Computer and Systems Sciences

The Master's Programme in Computer and Systems Sciences at Stockholm University offers you the opportunity to expand your knowledge in IT Systems. You will not only learn the theories, methods and tools but also learn how to practice them. At Stockholm University, you learn how to efficiently develop advanced computer systems, software systems, using both agile and standard system development methods.

The programme helps you to develop soft skills along with technical skills such as understanding the needs of users, practicing in group dynamics and project management. The Programme is to a large extent project and problems oriented. The programme culminates with a Master's thesis.

This programme offers a selection of electable courses. You have the opportunity to choose among courses such as: information security, information systems design and architecture, service-oriented architectures and business intelligence etc.

Career

Depending on the chosen courses, the programme is suitable for students aiming for a professional career within system design, system development, information security or risk management for example. Graduates may also enter Ph.D. programmes to pursue a career in research.

What's your ambition?

The programme trains professionals or researchers in the field of Computer and Systems Sciences and Information Systems. During the programme, you get a wide range of relevant industry-related skills that opens up a multitude of possibilities.

Requirements

A Bachelor's degree or a degree equal to 180 ECTS with a minimum of 90 ECTS within computer and systems sciences, systems science, informatics or information systems. Language requirements on page 16.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: On campus

Begins: Autumn

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

Master's Programme in Decision analysis and Data science (distance)

We run into decision problems almost everywhere, and a proper handling of them is fundamental for a well-functioning society. Decisions that are not thought through and made by gut feeling often lead to unfavourable consequences. In this programme you will learn how to handle decision situations in a systematic way so that preferred consequences are probable. You will be made familiar with all the stages in decision making, from selecting, gathering and processing background information, structuring of the problem and assessing the consequences to making the actual decision based on rational principles.

The programme has two tracks: data science or decision and risk analysis. In the first year you will learn about both subject areas and in the second year you will specialise in either one. The data science track covers how to extract knowledge from data by, for example, machine learning, big data analytics, data mining and time series. In terms of the decision making process, this is the beginning, where the bases for decisions are found. The decision and risk analysis track focuses on the later stages such as finding, evaluating and choosing alternatives but also how to deal with uncertain factors such as subjective values and future outcomes. You will also learn to spot the difference between rational and irrational arguments for decisions.

Career

Apart from academia and Ph.D. studies, graduates may pursue careers in a variety of organisations such as large and mid-size corporations, banks and financial institutes, public sector agencies and non-governmental organisations.

What's your ambition?

You will be qualified to assess and handle risks as well as to form strategies after having completed the programme. Moreover, you will be able to provide decision makers with well-founded advice in tricky situations.

Requirements

Bachelor's degree or a degree equal to 180 ECTS including an essay project of at least 15 ECTS or equivalent. A minimum of 15 ECTS within programming or mathematics. Language requirements on page 16.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: Distance

Begins: Autumn

More information: <http://dsv.su.se/en/SBDSO>

Master's Programme in Design for Creative and Immersive Technology

Life has changed profoundly with the arrival of the digital age, but we are still only in the infancy of the development. Innovative technology and the ways we interact with it has facilitated social connections and sped up communication infrastructure, but also disrupted older media and foundational societal structures. While society is still struggling to grasp the effects of social media and smartphones, further developments are rapidly underway in creative and immersive technologies such as the Internet of Things, Augmented Reality, Virtual Reality, eXtended Reality, Artificial Intelligence and Big Data to name only a few.

In a chaotic and rapidly changing technological landscape, there is an urgent need for people who understand all three core aspects of design: technology itself, the individual user and societal implications of introducing new technology. This program will train you to create new technology, while heeding user needs and wants as well as larger societal transformations.

Career

You will qualify for positions such as immersive technology specialist, interaction designer, change agent, project manager, innovator and entrepreneur in novel technology. Graduates may also enter Ph.D. programmes to pursue a career in academic or industrial research.

What's your ambition?

As a graduate from this programme, you will be ready to handle complex design decisions and issues in a world immersed in technology. You will have the skills to create novel technology as well as heed user and societal needs and implications.

Requirements

Bachelor's degree or a degree equal to 180 ECTS including an essay project of at least 15 ECTS or equivalent. A minimum of 90 ECTS within computer and systems sciences, systems science, informatics or information systems, or equivalent. Language requirements on page 16.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: On Campus

Begins: Autumn

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

Joint Master's Programme in Health Informatics

The programme is aimed at students who are interested in Information Technology and want to apply this to the medicine or healthcare fields. It is given jointly between Karolinska Institutet and Stockholm University and you will get a joint degree from both universities.

Students will learn methods to make healthcare safer, more efficient and of higher quality through computer-based information and knowledge management. Health informaticians play a key role in hospitals, other healthcare settings as well as in companies supplying health information systems.

Students with a technical background start by taking courses in basic medical science, healthcare organisation and management at Karolinska Institutet while students with a background in healthcare take courses in basic computer and systems sciences at Stockholm University. After this, both groups join to focus on health informatics. In the second year, students profile their education by taking elective courses and complete a degree project.

Career

Many health informaticians work as project managers. Other common professions within the field are IT managers, clinical informaticians, application experts, requirements analysts, system specialists and developers, interaction designers, evaluators and researchers.

What's your ambition?

You should apply if you have a desire to take a leading role in developing healthcare through the use of ICT and if you would like to obtain a joint degree from two world-leading research universities.

Requirements

A Bachelor's degree or a degree equal to 180 ECTS with a minimum of 90 ECTS within computer and systems sciences, (e.g., computer science, systems science, informatics or information systems) or 90 ECTS in Healthcare (e.g., Biomedicine, Medical Technology). Language requirements on page 16. The application is done online to Karolinska Institutet.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: On campus

Begins: Autumn



More information: <http://dsv.su.se/en/SHINO>

Master's Programme in Information Security

Information security is primarily concerned with the protection of information assets. Today, most of the information resides in - and is communicated via - IT systems. Hence, these systems need to be protected from various threats and attacks. The goal of information security is to protect with respect to the information, its confidentiality, integrity and availability. Naturally, it all depends on business needs and legal requirements. The area of information security is both exciting and overreaching since it also entails the protection of the essential and critical cyber infrastructure, trying to prevent or solve a wide range of computer crimes and other illicit activities, as well as protecting human rights, freedom and democracy. One of the many objectives is to devise new methods and strategies for cyber readiness and defence.

At Stockholm University, we approach the subject area from both the business side and the technical side. This Master's Programme includes courses such as: Introduction to Digital and Information Security, Secure Software, Information Security in Organisations, Network Security, Information Security, Project Management, Cyber Security, Legal aspects of information security and Cyber Forensics.

Career

The job market for information security professionals is very good. Information security graduates from Stockholm University work as information security managers (CISO), information security consultants, cyber security specialists, cyber and digital forensics professionals. Some graduates choose to pursue their careers in research education that eventually leads to a doctoral degree in this exciting field.

What's your ambition?

Graduates of this programme are ready to work in the area of information security and related fields in both private and public sector organisations as managers, advisors and specialists providing professional and expert know-how.

Requirements

A Bachelor's degree equal to 180 ECTS. Language requirements on page 16.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: On campus

Begins: Autumn

Computer and Systems
Sciences, one year

Computer and Systems
Sciences

Decision analysis and
Data science

Design for Creative and
Immersive Technology

Health Informatics

Information Security

IT Project Management,
one year

Open eGovernment

Strategic Information
Systems Management

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

One Year Master's Programme in IT Project Management (distance)

The Programme is provided entirely at distance and enables you to choose the time and place for your studies. The idea is that the program will be available to all, regardless of where you are located in the world. The training is ideal for anyone wishing to continue their education or to combine work with studies, but who has limited ability to regularly attend lectures and seminars. The focus of the program is project management in the field of IT and on light weight models such as Kanban, Scrum and the like. The program will help you establish a solid foundation in project management knowledge and skills.

We will start by examining digitization as a catalyst for change in our society simply because a lot of what we as IT professionals will be doing is related to digitization. The program will then make the connection between business strategies and IT strategies through the project portfolio. This should serve as a solid foundation for the coming courses that will focus more on skills and the craft of project management. Coupled with leadership and methodology courses, this should give you a very strong and competitive base to build a career on.

Career

Graduates of the programme will be eligible for positions as project managers in almost any field within the IT industry, in large or small organisations. Graduates may also enter Ph.D. programmes for a research career.

What's your ambition?

With a Master's degree in IT project management from Stockholm University, you acquire the knowledge and skills needed to run projects as a project manager in the field of Information and Communication Technology. You learn the necessary tools such as project planning, economics, agile models, negotiation techniques and much more.

Requirements

A Bachelor's degree or a degree equal to 180 ECTS including an essay project of at least 15 credits or equivalent. A minimum of 60 ECTS of computer and systems sciences, systems science, informatics or information systems. Language requirements on page 16.

More information about the programme

Credits: 60

Language: English

Duration: 2 years

Study pace: 50%

Study form: Distance

Begins: Autumn

More information: <http://dsv.su.se/en/SPROM>

Master's Programme in Open eGovernment (distance)

The programme provides in-depth knowledge, including theories and practices, in areas such as e-service design and innovation, e-democracy, e-governance, requirement engineering, business process management and improvement, security and privacy in e-Government, ICT architecture, ICT system integration as well as project and change management. The programme also has a specific focus on business intelligence, decision support systems and open and big data management for e-Government.

This programme promotes a new role needed in public organisations, an e-Government architect, a role that has the knowledge and skills necessary to drive ICT-enabled changes in the public sector. An e-Government architect combines knowledge about democratic processes, citizen service and public administration with skills in designing effective ICT systems and e-services for e-Government.

The Master's Programme is inspired by the Swedish democratic model as well as models in the area of e-Government developed in Europe and the rest of the world.

The programme is given as a set of distance courses. Thereby, the programme can be studied wherever you are located in the world.

Career

Graduates will find positions as enterprise and IT architects, project managers and change agents in public organisations as well as private and non-governmental organisations working within the area of e-Government. Graduates may also enter Ph.D. programmes for a research career.

What's your ambition?

As a graduate from this programme, you will be ready to lead and transform public organisations to be open, inclusive, innovative, flexible and effective using Information and Communication Technology (ICT).

Requirements

A Bachelor's degree equal to 180 ECTS. Language requirements on page 16.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: Distance

Begins: Autumn

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

Computer and Systems Sciences, one year

Computer and Systems Sciences

Decision analysis and Data science

Design for Creative and Immersive Technology

Health Informatics

Information Security

IT Project Management, one year

Open eGovernment

Strategic Information Systems Management

Master's Programme in Strategic Information Systems Management

The programme helps you develop your skills in planning, management and technique required for leading any organisation in today's complex digital world. The focus is on design, implementation, use and evolution of information systems. You acquire in-depth knowledge about information systems design and architecture including requirements engineering, digital resource management, service-oriented architectures and agile systems development. You will get a strong understanding of the role of IT in supporting and transforming organisations and networks, including value network design, digital innovation, enterprise systems, business process management, business intelligence, decision support and knowledge management.

Career

Graduates will be able to find positions as IT architects or enterprise architects, project managers, database administrators, systems analysts and application developers. They may pursue careers in a variety of organisations, including large and mid-size corporations, public sector agencies and non-governmental organisations. Graduates may also enter Ph.D. programmes to pursue a research career.

What's your ambition?

As a graduate from this programme, you will be prepared to lead organisations in today's complex digital world. You will acquire all the necessary planning, management as well as technical skills for designing and using strategic information systems.

Requirements

A Bachelor's degree or a degree equal to 180 ECTS including an essay project of at least 15 ECTS or equivalent.
Language requirements on page 16.

More information about the programme

Credits: 120

Language: English

Duration: 2 years

Study pace: 100%

Study form: On campus

Begins: Autumn

More information: <http://dsv.su.se/en/SSLIO>



The Nod Building. Photo: Eva Dahlin

Requirements, fees and application

Requirements

Find information about general and specific entry requirements in each programme presentation in the brochure.

All programmes require English level as follows:

Course English B from Swedish Upper Secondary School or:

- IELTS (International English Language Testing Service)
Academic Module: Overall minimum score of 6.5 (with no section below 5.5).
- TOEFL (Test of English as a Foreign Language)
Paper Based: Overall minimum score of 575 (with minimum score 4.5 in the written test)
Internet-based : Overall minimum score of 90 (with minimum score 20 in the written test)
- University of Cambridge and Oxford: Certificate in Advanced English or Diploma of English Studies.

Information about English requirements, please consult su.se/faqstudy

Fees

Fees do not apply to students from EU/EEA/Switzerland. Applicants from countries outside of the EU/EEA/Switzerland are required to pay both application and tuition fees. For more information about fees, please visit www.dsv.su.se/fees

Application

Apply online at www.universityadmissions.se

The application round is open from mid-October to mid-January. Find exact dates at the University Admission web site closer to the admission round.

Information about the application process at www.dsv.su.se/application

Contact us!

E-mail: prospecitvestudent@dsv.su.se

Webb: www.dsv.su.se/en

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