Study Abroad at Umeå University
Top-ranked in Sweden and Europe

www.umu.se/english
Melis first came to Umeå University in 2006 on exchange from Turkey and had such a positive experience that she was determined to return. She entered the two year master’s programme in molecular biology the following year. Today, Melis is continuing her passion for plants in Umeå as PhD student.

“A major reason behind my initial decision to come and study here was due to the fact that Umeå University was one of the few that offered my field of study with English language instruction. I really enjoyed it and loved the student social life, as well as the cosy ‘fika’ culture,” says Melis. The flat in the student corridor and the Buddy Programme helped her fit in and make friends easily. “We had students from a variety of backgrounds and different ages in my corridor, and everyone helped each other out. Umeå was also a much bigger city than I expected as there is always something happening. It’s also amazing how sports are such a big part of the lifestyle,” explains Melis.

The non-hierarchical system of academics at Umeå University was a breath of fresh air for Melis. “I really enjoyed it and loved the student social life, as well as the cosy ‘fika’ culture.”

Melis has always been interested in plants, and hopes to teach one day. As for adjustments to living in northern Sweden, Melis had surprisingly few. “The winters here are so lovely, and the great social life helps you get through the darker periods,” says Melis. “The winters here are so lovely, and the great social life helps you get through the darker periods,” says Melis. “My writing skills in English even improved dramatically, with thanks to lots of online chatting.”

“Melis Kucukoglu
Molecular Biology, Forest Genetics and Plant Physiology
TURKEY

“There is so much going on here in Umeå”

Umeå University
Quick Facts

• Founded in 1965 as Sweden’s fifth university.
• Ranked #1 in Sweden (#29 in the world) of universities under 50 years by Times Higher Education.
• 34,000 full-time, part-time and distance students.
• We have students and staff from over 50 different countries.
• Beautiful Campus Umeå is equal to 28 football pitches in size (242,324 m²).
• #1 in Sweden in student satisfaction (ISB ranking).
• Umeå University ranked 1st in International Student Satisfaction – in Sweden and Europe!
• Over 500 courses and 30 degree programmes taught entirely in English.
• Europe’s largest fitness and recreation centre is located on Campus Umeå.
• Bildmuseet is the contemporary art and visual culture museum of Umeå University.
• The university library has 1.5 million volumes and 300 public computers.

As Vice-Chancellor I would like to take this opportunity to welcome you to Umeå University. At Umeå University we believe that the future of education lies in international cooperation. We aim to increase the international student numbers through offering internationally competitive education at a university that is well prepared for servicing a diverse student body. In striving to achieve these goals we are very pleased to currently be cooperating with 531 partner universities in 60 countries around the globe.

Our university is open to everyone, regardless of background. We believe that international influences enhance the quality and diversity of the education and research at any institution of higher learning. We are proud to host around 1,000 international students and 150 international teachers and researchers every year. These students, researchers and teachers bring new perspectives to our classrooms and help to make our campus a more exciting, creative and culturally diverse environment.

A university education is an excellent foundation for life-long learning. We believe that acquiring part of your university education in Umeå will strengthen that foundation and help you improve such skills as adaptability, self-reliance and cultural understanding. As we live in an increasingly internationalised world, these skills are in great demand on the global job market. I hope that you will enjoy both your educational and social experience at Umeå University and I encourage you to make the most of your time with us. We will do our best to make your stay with us both academically and socially rewarding.

We look forward to meeting you at our university.

Lena Gustafsson, Vice-Chancellor

A word from our Vice-Chancellor

Quick Facts

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Umeå has four distinct seasons and you can enjoy nature and wildlife all year round – you will have the opportunity to ski and ice-skate in winter and take a swim in a lake in summer. For those who like outdoors adventures there are plenty of places to go rock climbing or white water kayaking. In Umeå, you will have the opportunity to live in a city but constantly be close to nature.

Where different worlds meet
As the largest city in northern Sweden, Umeå serves as an educational centre and as a hub for knowledge and business. Over half of the people who live here are from outside the region. More than 50 languages are spoken – with English widely used everywhere – and there is a thriving community of clubs and societies that represent people and cultures from across the globe. Umeå University, founded in 1965, is a truly international university with students, faculty and staff from all around the world. Here you are guaranteed an international academic experience. You will enjoy a real university city with a large student community and an exciting campus life.

Campus Umeå
Modern facilities and a creative atmosphere
Umeå University is a truly international university with students, faculty and staff from all around the world. Here you are guaranteed an international academic experience. You will enjoy a real university city with a large student community and an exciting campus life.

A city of contrasts
As one of the fastest growing cities in Sweden, Umeå is careful to balance its environmental commitments with its trade and industry ambitions. The city has tremendous IT know-how and IT and communications industries are particularly well established here. Umeå has four distinct seasons and you can enjoy nature and wildlife all year round – you will have the opportunity to ski and ice-skate in winter and take a swim in a lake in summer. For those who like outdoors adventures there are plenty of places to go rock climbing or white water kayaking. In Umeå, you will have the opportunity to live in a city but constantly be close to nature.

Welcome to Umeå, Sweden!

Dina Saleh
Public Health
UNITED KINGDOM
Exchange students must be nominated from their home university. To become nominated for an exchange term or a year at Umeå University, you will need to contact the international coordinator at your home university. Once you have been nominated, you will receive further instructions on how to apply to Umeå University as an exchange student.

www.umu.se/english/education/exchange-students

Degree and independent students apply online
Students wishing to study single-subject courses and degree programmes outside of exchange agreements should submit applications online through the national admissions site www.universityadmissions.se. You can also access our guide to making your online application and eligibility requirements on our website.

www.umu.se/en/international-application

The Swedish academic system
As a student at a Swedish university you will study one course at a time. Exams are given at different times throughout the academic year. One full week of study equals 40 hours of lectures, group work, seminars and independent study. One term consists of 20 weeks during which you will receive 30 higher education credits (ECTS). One ECTS credit is equivalent to 0.5 U.S. credit.

The International Office provides you with support concerning practical issues while you are getting settled in Umeå and preparing your life as a student at Umeå University. The International Office also arranges different activities and provides information about events that take place on campus and in the city.

Infocenter Universum provides support and guidance for students who are unsure of where to turn with their enquiries. The well trained staff can help you directly or refer you to the right person or department.

www.infocenter.umu.se/english

The International Housing Office (IHO) provides guaranteed housing for students who are unsure of where to turn with their enquiries. The well-trained staff can help you directly or refer you to the right person or department.

www.infocenter.umu.se/english

Finding your own place to live
The largest housing company in Umeå is Bostaden. They have a system for the allocation of rooms and apartments that awards those who have been registered with them the longest. In order to get the best possible offer of accommodation, you should register with Bostaden at the same time you apply to Umeå University.

www.bostaden.umu.se/eng

Sweden’s most satisfied students

“I love the study environment and culture of Sweden.”

Akhilesh Radhakrishnan
Molecular Biology
INDIA

“The International Housing Office (IHO) provides guaranteed housing for students who are unsure of where to turn with their enquiries. The well-trained staff can help you directly or refer you to the right person or department.”

Akhilesh Radhakrishnan
Molecular Biology
INDIA
The Buddy Programme is organised as a service for international students. The “Buddies” are Swedish students who volunteer to introduce new international students to the Swedish way of life. As a participant in the Buddy Programme, you will be part of a buddy group. The Buddy Programme involves the possibility to participate in a variety of activities such as sports, parties, and travel, or just having a cup of coffee with your group members.

The Host Programme provides our international students with an opportunity to meet regular Swedish people and to experience a little bit of Swedish everyday life. As a participating international student you are paired with another international student and the two of you receive one host person. Students and hosts meet at least twice during the term. Your host will be an employee or a student at the university or an employee at Umeå Municipality.

Culture on Campus is the only one of its kind in Sweden. They arrange and produce free events on campus during lunchtime. They present many musical acts, but also literature, theatre, circus, film, photography, dance and art.

The Student Organisations and the student pubs at Umeå University are run by students who work on a voluntary basis. There is an extensive range of student organisations that cover all kinds of interests. We also have theatre groups, a comedy orchestra, an academic riding club, an international affairs club, the student radio station and the student newspaper.

Stay fit at Europe’s largest fitness centre – IKSU
This may be the most popular meeting place on Campus Umeå for our students. IKSU Sport has several halls for team sports such as squash, basketball, and floorball, in addition to indoor pools, beach volleyball, facilities for many types of group training, a spacious and modern gym, a rock climbing wall, and a golf swing simulator. Through its outdoor and alpine sections, they also offer a wide variety of affordable excursions and ski trips for beginner and more advanced skiers. You also have access to personal trainers, massage, physical therapists and other spa treatments.

www.iksu.se

Enjoy an active campus life
Experience sport, music, activities and culture

What can you study?
Umé University offers a large selection of courses taught entirely in English. All courses can be found in our online catalogue.
You can choose from a wide variety of single-subject courses and master’s degree programmes. Some bachelor’s programmes are also available. You will receive a quality education from a dedicated teaching staff while enjoying a creative study climate. Many international students from all over the world study at Umé University every year and together with our Swedish students, they create a truly international campus where cultural diversity is part of the learning experience.
For Umé University, it goes without saying that research and education go hand in hand.

Subjects taught in English
Archaeology
Architecture
Biology
Biomedical Sciences
Business Administration
Chemistry
Cognitive Science
Computing Science
Cultural Studies
Design
Didactics
Earth Science
Economic History
Economics
Education
Electronics
Energy Technology
English
Environmental Health
Food and Nutrition
Gender Studies
Geography
History
Human Geography
ICT and Learning
Informatics
Law and Legal Studies
Leadership and Organisation
Library and Information Service
Mathematics
Mathematical Statistics
Media Technology
Medicine
Molecular Biology
Music
Nursing Science
Occupational Therapy
Philosophy
Physics
Political Science
Psychology
Psychotherapy
Public Health
Sami Studies
Social Work and Social Welfare

Subject to change
www.umu.se/english/education
**Umeå in Europe**

Umeå will be the European Capital of Culture 2014, the EU’s northernmost capital of culture ever. The theme ‘Curiosity and Passion – the art of co-creation’, is inspired by the eight seasons of the Sami calendar.

www.umea2014.se

**Far away, yet so close!**

Northern Sweden is only hours away from the rest of Europe and there are many different ways to travel to and from Umeå.

You can wake up in Umeå, have lunch in Stockholm and go to bed in Berlin or London. A flight from Umeå to Stockholm takes only 50 minutes. Umeå Airport is located within a ten-minute drive from both the centre of town and the university campus, and prices for flights are kept at a modest level by having three different airlines that fly the route to Stockholm.

www.sas.se
www.norwegian.se
www.sas.se

If you have time to spare and you want to save some money, you can opt to travel by Y-Buss along the Northern coast from Stockholm to Umeå. They also offer Wi-Fi onboard and a student/youth discount.

www.ybuss.se

For those who prefer environmentally friendly train travel, the high-speed railway up the northeast coast of Sweden is a must. It offers modern and fast train service that stops at a brand new station in Umeå adjacent to the University campus.

www.umea2014.se

**Language requirements**

To be accepted for studies you need to prove that you have sufficient knowledge of the language that the courses/programmes will be taught in. The required level of English needed for the education taught in English is specified in the online course catalogue.

You only have to prove your proficiency in Swedish if you are applying for courses or programmes that are taught in Swedish. Basic Proficiency in English (equivalent to English course B/6 from Swedish Upper Secondary School).

Basic proficiency in English can be proven by testscores from one of the following internationally approved tests:

- IELTS (Academic) - minimum score 6.5 with no individual score below 5.5 (Tests taken before January 2008 are not admissible)
- TOEFL-tests:
  - Paper-based: Minimum score 575 with minimum TWE score 4.5.
  - Computer-based: Minimum score 213 with minimum Essay Writing score 4.0.
  - Internet-based (IBT): Minimum score 90 with minimum Writing score 20.
- University of Cambridge/Oxford:
  - Certificate in Advanced English
  - Certificate of Proficiency
  - Diploma of English Studies
  - Oxford Delegacy Higher Examination
- Michigan English Language Assessment Battery (MELAB) – minimum score 90
- Advanced Placement International English Language (APIEL)
- Test of English Academic: Score of 62 (writing 61)

You are also considered to meet the requirements for the basic level of English proficiency if you have:

- One of the following certificates of upper secondary studies: General Certificate of Education (GCE)
- O-level/ General Certificate of Secondary Education (GCSE) or International General Certificate of Secondary Education (IGCSE) with a grade of C or higher, International Baccalaureate (IB) with English B/6/A1 or A2, SL with grade 4, German Abitur with English as Leistungskurs or first foreign language
- At least two years of university studies in the USA, Canada, Australia, New Zealand, and Great Britain
- A Bachelor’s degree from a university where English is the only language of instruction, according to the latest edition of International Handbook of Universities.
- A Bachelor’s degree (a Swedish Kandidatexamen or equivalent academic qualifications) with English as the major subject.
- Have a 4-year Bachelor’s degree in Engineering, Natural Science or Technology from India or Pakistan.

Some education might require a lower level of English (equivalent to English course A/5 from Swedish Upper Secondary School) and this can be proven by supplying test scores from one of the following internationally approved tests:

- TOEFL-tests:
  - Paper-based: Minimum score 530 with minimum TWE score 4.0.
  - Computer-based: Minimum score 173 with minimum Essay Rating 4.0.
  - Internet-based (IBT): Minimum score 72 with minimum Writing score 17.
- University of Cambridge/Oxford:
  - First Certificate in English - Grade A, B or C
  - Lower Certificate in English - Grade A or B
- Michigan English Language Assessment Battery (MELAB) – minimum score 85
- Pearson Test of English Academic: Score of 47

Language test scores are not required if:

- You have completed a minimum of two years of studies at an accredited university or college with English as the medium of instruction. There are some exemptions to this rule.
- You have completed one year of graduate studies and have written your thesis in English.
- You are a student attending under a formal exchange agreements between Umeå University and their home university.

Cagatay Bilim - Culinary Arts TURKEY

**“The mixture of unique nature and student life makes this place special.”**

Gastronomy and Cultural Arts...
About the programme

This program is given by Umeå School of Business and Economics. The goal of this program is to provide students with managerial and analytical skills and an understanding of the rules and standards governing conduct in accounting and auditing. The program offers a thorough grounding in management accounting, financial accounting, auditing, financial statement analysis, and valuation. During the elective periods, students can expand their field of interest by studying in such areas as corporate governance.

With the exception of some elective courses, the program is offered in English, Level of Education: Second degree studies.

Eligibility

Bachelor's degree in Business Administration
Special requirements:
• 90 ECTS in Business Administration including at least 15 ECTS as well as 7.5 ECTS in Finance
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

90,000 SEK per year

Contact information

Richard Lindberg
Phone: +46 90 786 68 04
Email: richard.lindberg@usbe.umu.se
Umeå School of Business and Economics

About the programme

This program is given by Umeå School of Business and Economics. The programme aims to prepare students to become entrepreneurial leaders with capabilities to act on opportunities, needs and challenges, to develop businesses and innovations in a global and changing business context. The students learn about innovation, entrepreneurship, networking and business growth from an international perspective. The educational idea is entrepreneurship is grounded in action-based learning which is integrated with the reflectiveness of master program studies. In this program students create value from innovations and ideas by working with business simulations and development of real-life cases of R&D-based innovations, service innovations and innovation development within larger companies.

With the exception of some elective courses, the program is offered in English, Level of Education: Second degree studies.

Eligibility

Bachelor’s degree in Business Administration
Special requirements:
• 90 ECTS in Business Administration
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

90,000 SEK per year

Contact information

Richard Lindberg
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Email: richard.lindberg@usbe.umu.se
Umeå School of Business and Economics
Programmes in English

Master's Programme in Finance
120 Credits

About the programme
This programme is given by the Umeå School of Business and Economics. This programme provides a conceptual and analytical framework for understanding and applying financial theory and offers a thorough grounding in finance so that its graduates can build upon for the remainder of their business careers. Advanced Corporate Finance and Risk Management cover both long-term and short-term financial management for firms. Investments and Risk Management cover both long-term and short-term risk management and human resource management. To keep the program up-to-date, and in order to better prepare our students for both contemporary and future challenges in business and society, we also complement traditional theory with the most recent research results. Sustainability and internationalization is an integral part of the educational environment.

Eligibility
Bachelor’s degree in Business Administration
Special requirements:
• 90 ECTS in Business Administration (including at least 15 ECTS Finance) and 7.5 ECTS in Statistics
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
90,000 SEK per year

Contact information
Gisela Taube Lyxzén
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Umeå School of Business and Economics

Master's Programme in Management
120 Credits

About the programme
The program, given at Umeå School of Business and Economics, is designed for students who is interested in, and want a thorough understanding of, the strategic and leadership challenges that managers face in modern business. The program combine intellectually challenging tasks with real-life applications in areas such as strategy, project management, and human resource management. To keep the program up-to-date, and in order to better prepare our students for both contemporary and future challenges in business and society, we also complement traditional theory with the most recent research results. Sustainability and internationalization is an integral part of the educational environment.

Eligibility
Bachelor’s degree in Business Administration
Special requirements:
• 90 ECTS in Business Administration
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
90,000 SEK per year

Contact information
Gisela Taube Lyxzén
Phone: +46 90 786 77 26
Email: gisela.taube.lyxzén@usbe.umu.se
Umeå School of Business and Economics

Master's Programme in Marketing
120 Credits

About the programme
The programme is given by Umeå School of Business and Economics. The objective of this programme is to provide students with an in-depth understanding of the role of marketing in the overall corporate strategy, knowledge of consumer behaviour and competitive analysis, and experience in making executive-level decisions in the area of marketing management. The program emphasizes the application of marketing theory and hands-on experience in designing and implementing market strategies in competitive environments through the balanced use of cases, the state-of-the-art online simulation, modeling tools, and actual fieldwork experience.

Eligibility
Bachelor’s degree in Business Administration
Special requirements:
• 90 ECTS in Business Administration (including at least 7.5 ECTS in Marketing) and 7.5 ECTS of basic Level Statistics/Mathematics (Statistics is recommended)
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
90,000 SEK per year

Contact information
Rickard Lindberg
Phone: +46 90 786 68 04
Email: rickard.lindberg@usbe.umu.se
Umeå School of Business and Economics

Master's Programme in Tourism
120 Credits

About the programme
Tourism is one of the fastest growing industries in the world. Globalization and new technologies have created new touristic opportunities for consumers, but also caused global competition among providers and tourist destinations. Hence, successful tourism development requires skillful labor with good knowledge of tourist industry, society and environment. The program offers advanced insights into the tourist industry and provides students with the opportunity to develop their knowledge and interests within the field of tourism. The program applies broad perspectives on tourism by combining various scientific approaches. Students meet researchers not only from the Faculty of Social Science, but also from the Humanities and Sciences introducing issues related to history, ethnology and ecology. The program qualifies successful students for work in tourism within the public as well as the private sector.

Eligibility
Basic requirements: A Bachelor’s degree (equivalent to a Swedish Kandidatexamen, 180 ECTS) from an internationally recognized university.
Special Requirements:
• at least 90 ECTS-credits in Tourism/ Geography/ Human Geography/ Regional Science/ Planning/ Hospitality/ Hotel and Restaurant Management/ Service Management/ Leisure/ Recreation/ Park Management or similar tourism-related subjects
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
90,000 SEK per year

Contact information
Håkan Appelblad
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Email: hakan.appelblad@umu.se
Department of Geography and Economic History
Programmes in English

About the programme
The aim of the programme is to provide studies in spatial planning and development and to give deeper insights in development work at the local, regional, national and international level.

After completing the programme you will have good knowledge about current theories on development and planning. Further, you will be familiar with advanced methods for analyses used by potential employers in the field of spatial planning and development.

Among others, Geographic information systems (GIS), analyses of consequences, progressus and simulation techniques are methods which you will master. The Magister/Master programme in spatial planning integrates a group of related social science subjects that are relevant for spatial planning. Some courses are given in cooperation with other departments in the form of joint classes with other Magister/Masters programmes. The advanced studies within the programme are in Social and Economic Geography with a main focus on spatial planning.

Eligibility
Bachelor’s degree
Special requirements:
• 90 ECTS in Social Geography, Geography, Planning, Development Studies, Environmental Science, Architecture, Landscape Architecture, or another Social Planning-related programme including at least 75 ECTS credits in quantitative methods
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL IBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
135,000 SEK per year

Contact information
Jenny Nilsson, Student Counsellor
Phone: +46 90 786 50 65
Email: jenny.nilsson@psy.umu.se
Greg Næsby, Programme Co-ordinator
Phone: +46 90 786 97 52
Email: greg.naesby@psy.umu.se
Department of Psychology

Eligibility
Bachelor’s degree
Special requirements:
• 90 ECTS in one of the following subjects: Informatics, Information Science, Computer Science, Cognitive Science or Informatics with focus on digital media production, or equivalent
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 530 and a minimum TWE score of 4.0
• TOEFL IBT (Internet-based Test) with a minimum score of 72 and a minimum score of 17 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
135,000 SEK per year

Contact information
Rikard Harr
Phone: +46 90 786 92 82
Email: rikard.harr@informatik.umu.se
Department of Informatics
Programmes in English

About the programme

The Master’s Programme in Robotics and Control at Umeå University is given in English and is fully adapted to the Bologna structure of higher education in Europe. It is inter-disciplinary with theses that cover important aspects of modern robotics such as autonomous systems, field robotics, artificial intelligence, computer vision, mobile robots, embedded systems, modeling and control systems. Lectures, lab work, projects, and assignments are closely connected to ongoing research at the University. The programme starts in September (autumn semester).

The Master’s Program in Robotics and Control provides teaching by lectures, group exercises, seminars, laboratory work, assignments, and projects. It consists of courses from the Department of Computing Science and Department of Applied Physics and Electronics. Many courses contain a large amount of practical work to provide hands-on experience using the state of the art software and hardware. The study focus may be put on artificial intelligence related robotics or control related robotics, depending on the student’s interests. It is also possible and encouraged to personalize the program by selecting additional courses according to own interests and including them in the diploma.

Eligibility

Bachelor’s or Bachelor of Engineering degree

Special requirements:
- 15 ECTS in Computing Science
- 7.5 ECTS in Electronics
- 30 ECTS in Mathematics
- 7.5 ECTS in Mathematical Statistics
- IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
- TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 4.0
- TOEFL IBT (Internet-based Test) with a minimum score of 79 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

115,000 SEK per year

Contact information

Sven Rönback, Programme Co-ordinator
Phone: +46 90 786 53 42
Email: sven.ronback@umu.se
Department of Applied Physics and Electronics

Master’s Programme in Robotics and Control
120 Credits

About the programme

Computational Science & Engineering (CS&E) is a field of knowledge which aims at the development of methods that rely on computers and mathematics to model, simulate, and visualize various kinds of systems. CS&E combines several different disciplines such as computer science including numerical analysis, applied mathematics, physics, and technology. The applications are literally found everywhere. They typically deal with complicated and/or complex systems, and often require the management and analysis of large data sets. Applications include image analysis, optimization of industrial processes, web-based search for information, risk analysis, the mechanism behind a razor’s blade, pricing of financial derivatives, computer games, and special effects in movies.

The Master’s Programme in CS&E begins with four compulsory courses that provide both basic knowledge and a solid foundation for the more specialized courses that follow. The programme closes with a diploma work that gives opportunities both to make use of the attained knowledge and to learn more specific tricks of the trade for a certain application.

Eligibility

Bachelor’s or Bachelor of Engineering degree

Special requirements:
- 75 ECTS in Computing Science and a minimum of 20.5 ECTS in Mathematics
- 75 ECTS in Theoretical Foundations of Computing Science
- A good theoretical and practical knowledge and skills regarding algorithms and data structures
- A solid knowledge and skills regarding programming, at least two programming languages, such as Java and C++, with an extensive theoretical knowledge in programming and software design does not provide a sufficient basis for the programme
- 7.5 ECTS in the theoretical foundations of Computing Science
- IELTS (Academic) with a minimum overall score of 6.0, and no individual score below 5.5
- TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 4.0
- TOEFL IBT (Internet-based Test) with a minimum score of 79 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

115,000 SEK per year

Contact information

Edith Wadensjö, Programme Coordinator
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Department of Applied Physics and Electronics

Master’s Programme in Computational Science and Engineering
120 Credits

About the programme

The Master’s Programme in Computing Science is directed towards students who want to develop a deep understanding of the field, together with a scientific attitude characterised by logical reasoning and critical analysis. We want to make sure that you not only repeat and apply the facts you have learned, but also extend that knowledge by drawing your own conclusions. In the best of cases, this will enable you to continue your education on a PhD programme at Umeå University or somewhere else. At the very least, you should have acquired the knowledge and skills making it possible for you to work with challenging scientific problems in industrial research and development. Our teachers, who at the same time are successful scientists in the areas they teach, will help you to reach this goal.

Necessary prerequisites for being able to follow the programme are theoretical knowledge and practical skills regarding algorithmic problem solving, including well-developed programming skills. In particular, you must be able to program in several programming languages such as C, Java, and Python and, if necessary, quickly become acquainted with further programming languages.

Eligibility

Bachelor’s or Bachelor of Engineering degree

Special requirements:
- 75 ECTS in Computer Science and a minimum of 20.5 ECTS in Mathematics
- 75 ECTS in the theoretical foundations of Computing Science
- A good theoretical and practical knowledge and skills regarding algorithms and data structures
- Software engineering, programming skills in at least two programming languages, such as Java and C++
- 7.5 ECTS in Programming and 7.5 ECTS in Numerical Methods
- A good theoretical and practical knowledge and skills regarding algorithms and data structures
- A solid knowledge and skills regarding programming, at least two programming languages, such as Java and C++, with an extensive theoretical knowledge in programming and software design does not provide a sufficient basis for the programme
- 7.5 ECTS in the theoretical foundations of Computing Science
- IELTS (Academic) with a minimum overall score of 6.0, and no individual score below 5.5
- TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 4.0
- TOEFL IBT (Internet-based Test) with a minimum score of 79 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

115,000 SEK per year

Contact information

Frank Drewes, Programme Coordinator
Phone: +46 90 786 87 90
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Department of Computing Science

Master’s Programme in Physics
120 Credits

About the programme

In less than fifty years, Umeå University (UmU) has become one of the largest and leading universities in Sweden. In the main rankings of universities in the world younger than 50 years, UmU was placed 39 (Times Top 100 under 50) and 27 (QS Top 50 under 50), respectively. Further UmU was recently ranked first in Europe in respect to overall satisfaction by international students (ISB). The Department of Physics is well known for excellent quality in both research and education and we have received extra financial support for several young and promising researchers. The study atmosphere is very international and interested students have good opportunities to locate some part of the MSc programme studies in another country.

The MSc programme is a two-year programme (120 ECTS credits) offered solely in English which gives the opportunity to acquire wider and deeper knowledge and abilities within one or several subareas in physics and is fully adapted to the Bologna structure of higher education in Europe. The programme offers you freedom to specialize according to your own interests and ambitions. We especially recommend the following profiles:
- Computational Physics
- Photonics: Advanced Materials Profile
- Photonics: Atomic, Molecular and Optical Physics Profile

Eligibility

Bachelor’s or Bachelor of Engineering degree in Physics

Special requirements:
- 60 ECTS in Physics
- IELTS (Academic) with a minimum overall score of 6.0 and no individual score below 5.5
- TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 4.0
- TOEFL IBT (Internet-based Test) with a minimum score of 79 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

115,000 SEK per year

Contact information

Roger Halling, Programme Co-ordinator
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Department of Physics
About the programme

The Department of Ecology and Environmental Science at Umeå University offers a 2-year Master of Science Programme for students that would like to specialize in Geoecology. Geoecology integrates the fields of Geosciences and Ecology. With an emphasis on the Nordic landscape, you will study natural earth processes, climate change and the effects of anthropogenic impact, such as resource utilization and pollution. These processes result in a more dynamic environment than what is generally recognized, and you will develop an awareness of environmental changes on timescales from years to millennia.

The Study Programme starts with a field course, Field Methods in Geoecology. After that, you will have opportunities to take theoretical courses and applied courses directed towards field studies, as well as courses directed towards Geographic Information Systems.

The programme is very flexible, as the only compulsory courses are the first course, Field methods in Geoecology, and the final Degree thesis, 30 ECTS. Courses can otherwise be chosen freely, as long as the requirements for the M.Sc. degree are met.

Eligibility

Bachelor’s degree

Special requirements:
• 90 ECTS in Earth science or 60 ECTS in Biology, Chemistry or Environmental science and 30 ECTS in Earth science
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 6.0
• TOEFL PBT (Paper-based Test) with a minimum score of 530 and a minimum TWE score of 4.0
• TOEFL iBT (Internet-based Test) with a minimum score of 72 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

135,000 SEK per year

Contact information

Rolf Zale, Programme Co-ordinator
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Department of Ecology and Environmental Science

About the programme

If you have a bachelor degree in biology and wish to get a more advanced knowledge in ecology to increase your possibilities to get an advanced job within companies and governments or the merit yourself for future studies as a PhD student, the master programme in ecology is something for you.

The master programme in ecology will give you an advanced knowledge of ecological theory necessary for planning and executing research and nature conservation. The education is closely linked to the research conducted at the department of Ecology and Environmental Science. Most of the practical exercises have their focus on northern ecosystems but the education is still highly international since general theory and global environmental problems like overfishing, forestry, river regulations, pollution and climate changes are central themes in many courses.

The programme gives skills to identify and characterise ecological problems plan and execute investigations and determine and study biological material. You will also learn how to analyse data statistically and how to present and interpret the results in a report. All courses in the master programme are given in English.

Eligibility

Bachelor’s degree

Special requirements:
• 90 ECTS-credits in Biology, of which 30 credits in Ecology
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 530 and a minimum TWE score of 4.0
• TOEFL iBT (Internet-based Test) with a minimum score of 72 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

135,000 SEK per year

Contact information

Johan Olofsson, Programme Co-ordinator
Phone: +46 90 786 77 04
Email: johan.olofsson@emg.umu.se
Department of Ecology and Environmental Science

About the programme

Knowledge regarding Chemistry and Molecular Biology is crucial for e.g. development of pharmaceuticals and vaccines, novel diagnostics and forensic techniques as well as within exercise and health sciences. The Bachelor of Science Programme in Life Science covers a broad spectrum in the fields of Chemistry and Molecular Biology where course content and teachers have a close link to leading research within fields such as Biological chemistry, Infection medicine, Microbiology and Environmental chemistry. The programme provides both the theoretical and practical skills needed for a promising and interesting future career.

After you have attained a Bachelor of Science degree, you can continue your studies on a master programme. Then you will study five years in total.

Eligibility

• Biology 2
• Physics Ia, Ib + Ib2
• Chemistry 2
• Mathematics 4, or Biology B, Physics A, Chemistry B, Mathematics D

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

120,000 SEK per year

Contact information

Patrik Andersson, Programme Co-ordinator
Phone: +46 90 786 52 66
Email: patrik.andersson@umu.se
Department of Chemistry

About the programme

The Department of Chemistry and Environmental Science at Umeå University offers a 2-year Master’s degree in Chemistry in an English-language Programme. The programme is designed to provide a high level of knowledge and skills in several areas of chemistry, including environmental chemistry, medicinal chemistry, and protein chemistry.

The chemistry programme aims to provide knowledge and skills for solving and critically assessing chemistry-related problems. You will learn how to compile, analyze, critically review, and present scientific texts and your own data. The first year includes three in-depth courses that cover tools and theories in modern chemistry that bring you to a level required for the following profile courses. The training provided in these courses focuses primarily on advanced instrumental methodologies for chemical analysis, and modelling and interpretation of physicochemical and biochemical phenomena. These courses also offer intense laboratory training to prepare you well for more advanced courses and work towards your Master’s thesis in the second year.

The Master’s project is a research project completed under the guidance of a supervisor, defended in public, and by a written thesis. The three profiles of the master programme match the strong research areas of the Chemistry department:
• Environmental Chemistry
• Medicinal Chemistry
• Protein Chemistry

Eligibility

Bachelor’s degree

Special requirements:
• 60 ECTS in Chemistry
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 530 and a minimum TWE score of 4.0
• TOEFL iBT (Internet-based Test) with a minimum score of 72 and a minimum score of 17 on the Writing Section

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee

135,000 SEK per year

Contact information

Wolfgang Schröder, Study Adviser
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Department of Chemistry
About the programme

Present day molecular biologists now have at their disposal an extensive molecular toolbox capable of taking on and answering most biological problems. If your wish is to enter a master programme that is in the forefront of presenting exciting scientific discoveries, the master programme in Molecular Biology at Umeå University is for you.

The master programme in Molecular biology, Umeå, is an advanced 2-year 120 ECTS credit education. It is guaranteed to train in a wide variety of tools necessary for state-of-the-art molecular biology research. Our courses typically include lectures and group discussions as well as seminars, report writing, data production and analysis exercises. To maximise your educational experience, training is purposefully held in small class sizes and are lead by internationally distinguished scientists. The majority of the courses place important emphasis on relevant hands-on experimental training in modern molecular techniques. The curriculum includes advanced courses in Molecular biology and Molecular genetics, with several optional courses within related disciplines such as Biochemistry, Plant molecular biology, Infection biology and Tumour biology.

Eligibility

Bachelor’s or Bachelor of Engineering degree Special requirements:

• 30 ECTS in Chemistry, with a minimum of 7.5 ECTS in Biochemistry
• Practical experience of laboratory work, corresponding to a minimum of 20 ECTS
• 45 ECTS in the Bioscience area covering Plant and Animal Physiology and Cell- and Molecular Biology
• 7.5 ECTS in Genetics
• 7.5 ECTS in microbiology (degree exam) project is excluded from the required 45 ECTS in the Bioscience area
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 2.5

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee 135,000 SEK per year

Contact information

Viktoria Vedin, Student Counsellor
Phone: +46 90 785 67 13
Email: viktoria.vedin@umu.se
Department of Molecular Biology

About the programme

Plant biotechnology is becoming increasingly important as a tool to solve some of the global problems related to food, fuel and ecosystem management in an environmentally friendly and sustainable manner. The Master of Science Programme in Plant and Forest Biotechnology offers students a specialized competence and skills to recognize, understand and find solutions to these challenges.

The programme is based upon a set of coordinated courses which together amount to 80 credits (120 ECTS credits) spread over two years. Up-to-date knowledge is provided about plant cell and molecular biology as well as plant growth and development. This is applied in the fields of plant breeding, biotechnology and functional genomics. The programme is organized by the Department of Plant Physiology (Umeå University) and the Department of Forest Genetics and Plant Physiology (Swedish University of Agricultural Sciences) which together form the Umeå Plant Science Centre (UPSC). The education is anchored around the various research topics of UPSC.

Eligibility

Bachelor’s degree
Special requirements:

• 60 ECTS in Biology, with a minimum of 30 ECTS in Plant Biology and Cell- and Molecular Biology
• 15 ECTS in Chemistry
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT / TOEFL IBT (Internet-based Test) with a minimum score of 520 and a minimum TWE score of 2.5
• Writing Section: TOEFL with a minimum score of 520 and a minimum TWE score of 2.5

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee 135,000 SEK per year

Contact information

Laszlo Bako, Programme Co-ordinator
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Department of Plant Physiology

About the programme

The two-year master programme in public health at Umeå University is the best in Sweden. It was, during 2012, the only two-year programme in public health that received the highest grade by the Swedish National Agency for Higher Education – “very high quality”.

There are a number of scholarships available for non-European students.

The Master’s Programme in Public Health includes a number of courses on global health conditions, on health systems analysis, on the relations between social conditions and health and on the methods that you need to carry out public health work. The programme provides public health practitioners and researchers with the skills required to understand, and ultimately help improve and maintain the health status of the population.

By nature, Public Health is multidisciplinary, drawing on social sciences and medicine, using qualitative and quantitative methods to identify and assess specific health risks before designing and implementing effective public health strategies. Traditionally drawing on the fields of microbiology, entomology, parasitology and the management and control of infectious diseases, in today’s globalised world we are increasingly facing new public health challenges involving causation and prevention of chronic diseases.

Eligibility

Bachelor’s degree in Public Health, Health Care or a relevant field in Social Science
Special requirements:

• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 2.5
• Writing Section: TOEFL with a minimum score of 520 and a minimum TWE score of 2.5

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee 140,000 SEK per year

Contact information

Carolina Näslund
Phone: +46 90 786 52 46
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Department of Epidemiology and Global Health

About the programme

The one-year master programme is relatively new. It builds on the two-year programme for which the first year courses are the same as in the one year programme. The two-year programme is the best in Sweden. It was, during 2012, the only two-year programme in public health that received the highest grade by the Swedish National Agency for Higher Education – “very high quality”.

There are a number of scholarships available for non-European students.

The Master’s Programme in Public Health includes a number of courses on global health conditions, on health systems analysis, on the relations between social conditions and health and on the methods that you need to carry out public health work. The programme provides public health practitioners and researchers with the skills required to understand, and ultimately help improve and maintain the health status of the population.

By nature, Public Health is multidisciplinary, drawing on social sciences and medicine, using qualitative and quantitative methods to identify and assess specific health risks before designing and implementing effective public health strategies. Traditionally drawing on the fields of microbiology, entomology, parasitology and the management and control of infectious diseases, in today’s globalised world we are increasingly facing new public health challenges involving causation and prevention of chronic diseases.

Eligibility

Bachelor’s degree in Public Health, Health Care or a relevant field in Social Science
Special requirements:

• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 2.5
• Writing Section: TOEFL with a minimum score of 520 and a minimum TWE score of 2.5

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee 140,000 SEK per year

Contact information

Carolina Näslund
Phone: +46 90 786 52 46
Email: carolina.naslund@umu.se
Department of Epidemiology and Global Health

Eligibility

Bachelor’s degree in Public Health, Health Care or a relevant field in Social Science
Special requirements:

• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 520 and a minimum TWE score of 2.5
• Writing Section: TOEFL with a minimum score of 520 and a minimum TWE score of 2.5

Application

For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee 140,000 SEK per year

Contact information

Carolina Näslund
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Department of Epidemiology and Global Health
Programmes in English

Masters Programme in Fine Arts
120 Credits

About the programme
Umeå Academy of Fine Arts is a part of the Arts Campus. Since 2012 you can find us in new, modern premises, beauti-
tfully located by Umeå river. As a student you will get a good insight to and understanding for the role of art in
today’s society and how it has evolved over time. Moreo-
ver, you practice your ability to analyze, debate and write
about art from a critical point of view. Focus is on your own
individual artistic expression. In the master programme
you deepen these abilities and you devote even more time
to your own artistic work.

We have every year a very large number of applicants, par-
ticularly to our Bachelor programme, of which 15-20 stu-
dents are admitted to each programme. In total there are
approximately 70 students at the school. Apart from our
Bachelor and Master programme in Fine Arts we usually
offer one or more summer courses each year and Aesthet-
ics I,II or III as a single subject course.

Note that for the study year 2014/15 the application is open
between February 3 and March 3. Begin by applying to uni-
versityadmissions.se. After that you send in your portfolio/
work samples via the link on the school’s website, www.
art.umu.se. There you also find out more about the appli-
cation process and what happens after you have applied.

Eligibility
Bachelor’s degree in Fine Arts or equivalent
Special requirements:
• Work samples, project description and interview, please see www.art.umu.se
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL iBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
335,000 SEK per year

Contact information
Gerd Aurell, Study Director
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Jeanette Nilsson, Program Co-ordinator
Phone: +46 90 786 68 64
Email: jeanette.nilsson@art.umu.se

Umeå Academy of Fine Arts

Programmes in English

Master’s Programme in Environmental Archaeology
120 Credits

About the programme
This programme provides Masters level training in practi-
cal and academic aspects of environmental archaeology.
The two year programme builds on over 35 years experi-
erience of research and consultancy at the Environmental
Archaeology Laboratory, and provides students with the
possibility for both specialist and generalist training. Stu-
dents may tailor their education to particular needs
through the choice of relevant core and external modules.
The program also allows for considerable flexibility in the
use of your own case study material as the basis for course-
work, and includes at least one international exchange
visit.

The Environmental Archaeology Masters programme is
oriented towards those:
• aiming at a career in archaeology, environmental archae-
ology, palaeoecology, Quaternary science or related aca-
demic or professional subjects.
• wishing to supplement earlier studies with a strong profi-
ciency package for excavations, analysis, interpretation
and presentation of archaeological, environmental
archaeological data
• wishing to learn transferable skills applicable to a broad
range of laboratory-based, quantitative and qualitative
subjects and professions.

Eligibility
Bachelor’s degree or equivalent within Archaeology,
Environmental Archaeology, Quaternary Geology,
Physical Geography or comparable major
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL iBT (Internet-based Test) with a minimum score of 76 and a minimum score of 10 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
90,000 SEK per year

Contact information
Johan Linderholm
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Email: johan.linderholm@umu.se

Department of Historical, Philosophical and
Religious studies

Programmes in English

Master of Arts Programme in Sustainable Architecture Production
120 Credits

About the programme
This master programme explores sustainable architecture
in a holistic way including cultural, social and economic
sustainability. We investigate and design urban environ-
ments and contextual building structures. Architectural
space and the reprogramming of existing buildings
and environments in terms of density, use, texture and spatial
qualities are the main focuses of investigations. The devel-
opment of new constructions in cooperation with industry
and the development of innovative strategies of sustain-
ability are important part of the education programs and
supplement a theoretical basis.

Study language is English.
Application is made in two steps.
Step 1: through the national online application service
universityadmissions.se
Step 2: Portfolio sent to Umeå Institute of Design. More
information about application and portfolio can be found
at www.arch.umu.se.

Eligibility
Bachelor's degree in Architecture or equivalent
International education of similar length
Special requirements:
• Portfolio sent to Umeå Institute of Design, please see: www.arch.umu.se
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 530 and a minimum TWE score of 4.0
• TOEFL iBT (Internet-based Test) with a minimum score of 84 and a minimum score of 17 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
175,000 SEK per year

Contact information
Katrin Stenholmqvist, Programme Co-ordinator
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Email: katrin.sten@arch.umu.se
School of Architecture

Programmes in English

Master’s Programme in Immediate Architectural Intervention
120 Credits

About the programme
This master programme is structured around the idea of
architectural intervention, explored in relationship to its
duration and effects in and around the community where it
takes place. While the programme’s approach can be related
to certain artistic practices, it is rooted in an understand-
ing of spatial conceptualization and production as the
architect’s most important skill. The programme explores
the possibilities of architectural practices which conceive
and articulate diverse processes of community develop-
ment and transformation. The “sites” of these intervent-
tions in the public sphere are in general, not given, and
their ‘construction’ includes involvement with other insti-
tutions, governmental agencies and other actors. The
projects are often developed in non-western environments,
which makes cultural understanding and research also
essential to the programme.

Study language is English.
Application is made in two steps.
Step 1: through the national online application service
universityadmissions.se
Step 2: Portfolio sent to Umeå School of Architecture. More information about application and portfolio can be found
at www.arch.umu.se.

Eligibility
Bachelor degree in Architecture, or equivalent
International education of similar length
Special requirements:
• Portfolio sent to Umeå Institute of Design, please see: www.arch.umu.se
• IELTS (Academic) with a minimum overall score of 5.5 and no individual score below 5.0
• TOEFL PBT (Paper-based Test) with a minimum score of 530 and a minimum TWE score of 4.0
• TOEFL iBT (Internet-based Test) with a minimum score of 72 and a minimum score of 17 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
175,000 SEK per year

Contact information
Alberto Altes, Programme Co-ordinator
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School of Architecture
Programmes in English

Bachelor’s Programme

Industrial Design Intensive
60 Credits

About the programme
Industrial Design Intensive aims at giving an introduction to the methods and processes used in the field of industrial design. The course format is work- and content intensive, and while starting with the fundamentals on a basic level, the pace and study methods in IDI support students in the possibility of reaching a high level of design skills and competence during the study year. Studies are mainly conducted in project form where theory and practice are combined. The course is open for students from other disciplines than industrial design who wish to specialise within the design field. Many of the students on the course have degrees in non-design disciplines and are looking to either broaden their competence in design in order to collaborate with industrial designers or to change study direction and specialise within the field of design.

Upon completing the course, students can work in professions related to design with a special competence in industrial design and while starting with the fundamentals on a basic level, the pace and study methods in IDI support students in the possibility of reaching a high level of design skills and competence during the study year. Studies are mainly conducted in project form where theory and practice are combined. The course is open for students from other disciplines than industrial design who wish to specialise within the design field. Many of the students on the course have degrees in non-design disciplines and are looking to either broaden their competence in design in order to collaborate with industrial designers or to change study direction and specialise within the field of design.

Eligibility
Minimum of 1 year full time university studies
Special requirements:
• 60 ECTS, or equivalent
• Home assignment, please see: www.uid.umu.se
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL iBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
270,000 SEK per year

Contact Information
Catharina Henje, Course Responsible
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Email: catharina.henje@dh.umu.se
Umeå Institute of Design

Master’s Programme in Transportation Design
120 Credits

About the programme
Transportation is an essential and integral part of any society. Population growth and environmental problems create challenges that the transportation industry must address with new and innovative solutions. Transportation designers influence this development by producing competent products that appeal to the hearts and minds of people. Design, which is a crucial part of product development, strongly affects the way we utilise and understand many things in our environment. The Transportation Design Programme at Umeå Institute of Design is unique in covering general transportation problem areas and their relation to the transport industry worldwide. The study programme is based on the Scandinavian design tradition, which emphasises the understanding of the users’ interests and needs as a key to successful products.

The study convey the ability to work with conceptual ideas, genuine knowledge of work development in the automotive industry, and a good comprehension of the use of modern methods and aids in transportation design. During the two years education at Umeå Institute of Design students can develop specific knowledge in areas like presentation techniques, strategic design, visual storytelling, physical and digital development. A great deal of time is devoted to project work in collaboration with external partners like research institutions or design department from different companies.

Eligibility
Bachelor degree in Industrial Design, or equivalent subject area
Special requirements:
• 60 ECTS in Design
• Portfolio sent to Umeå Institute of Design, please see: www.uid.umu.se
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• TOEFL iBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
270,000 SEK per year

Contact Information
Damian Horst
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Umeå Institute of Design

Master’s Programme in Advanced Product Design
120 Credits

About the programme
The masters program in Advanced Product Design offers students who wish to work as industrial designers a high-quality education in aesthetic, technical and strategical issues.

The program consists of both theoretical and practical subjects. It integrates advanced form treatment, problem identification and analysis, creative and visualisation techniques with business oriented subjects such as strategic design and professional practice. The program trains students to work as industrial design consultants developing products and system solutions for industry, institutions and public authorities. A major part of the project work is done in collaboration with actors in these areas.

The program conveys a holistic view of the industrial design process and emphasizes the following areas: Problem identification and analysis, User-centered innovation, Concept development, Emerging technologies and Strategic design.

About the programme
Industrial Design Intensive aims at giving an introduction to the methods and processes used in the field of industrial design. The course format is work- and content intensive, and while starting with the fundamentals on a basic level, the pace and study methods in IDI support students in the possibility of reaching a high level of design skills and competence during the study year. Studies are mainly conducted in project form where theory and practice are combined. The course is open for students from other disciplines than industrial design who wish to specialise within the design field. Many of the students on the course have degrees in non-design disciplines and are looking to either broaden their competence in design in order to collaborate with industrial designers or to change study direction and specialise within the field of design.

Upon completing the course, students can work in professions related to design with a special competence in industrial design and while starting with the fundamentals on a basic level, the pace and study methods in IDI support students in the possibility of reaching a high level of design skills and competence during the study year. Studies are mainly conducted in project form where theory and practice are combined. The course is open for students from other disciplines than industrial design who wish to specialise within the design field. Many of the students on the course have degrees in non-design disciplines and are looking to either broaden their competence in design in order to collaborate with industrial designers or to change study direction and specialise within the field of design.

Eligibility
Minimum of 1 year full time university studies
Special requirements:
• TOEFL iBT (Internet-based Test) with a minimum score of 90 and a minimum score of 20 on the Writing Section
• TOEFL PBT (Paper-based Test) with a minimum score of 575 and a minimum TWE score of 4.5
• IELTS (Academic) with a minimum overall score of 6.5 and no individual score below 5.5

Application
For application period, deadline and key dates, please see www.universityadmissions.se

Tuition fee
270,000 SEK per year

Contact Information
Niklas G. Andersson
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Umeå Institute of Design
About Science without Borders
Science without Borders is a Brazilian Government scholarship programme which aims to send 100,000 Brazilians in overseas higher education institutions to study in science, technology, engineering, mathematics and creative industries at universities across the world. Umeå University is one of them.

Umeå University is firmly anchored in an academic tradition of freedom, knowledge seeking and openness combined with marked social responsibility and commitment in which creativity, trustworthiness and the will to collaborate is crucial.

Our objective is to provide you with an educational experience of the highest quality with a skilled teaching staff, encounters with research and the outside world, and a strong international dimension.

We have course packages lasting ten months in the following subject areas and specializations:
- Design
- Robotics and Control
- Computational Science and Engineering
- Computing Science
- Computational Physics
- Photonics and Nanotechnology
- Applied Mathematics
- Mathematical Statistics
- Geology
- Ecology
- Chemistry
- Molecular Biology
- Plant and Forest Biotechnology
- Advanced Biomedicine
- Public Health
- Sustainable Architecture
- Architectural Intervention

More info about our offer:
- www.umu.se/web
- www.facebook.com/CienciaSemFronterasNaSuecia

Booster course in English

Upon arrival at Umeå University in July, students participating in Science without Borders are offered a four-week booster course in English; no extra tuition fee. The aim of this course is to prepare the student for studies in his or her discipline, where English will be the tuition language.

The course starts with diagnostic tests to determine the student’s current level of language skills in English. After this, an individual training schedule will be formulated to improve specific areas, but also to the overall performance in oral and written communication.

A successful completion of the course will earn the student a non-graded certificate of attendance.

Course packages in English

Science without Borders
Design
60 Credits

About the programme
Umeå Institute of Design has been ranked number one in the prestigious Red Dot Institute ranking of design schools in the world. We offer not only one, but four separate course packages in design.

Industrial Design Intensive
(Basic level)

Industrial Design Intensive aims at giving an introduction to the methods and processes used in the field of industrial design. The course format is work- and content-intensive, and while starting with the fundamentals on a basic level, the pace and study methods in IDI support students in the possibility of reaching a high level of design skills and competence during the study year.

Studies are mainly conducted in project form where theory and practice are combined. The course is open for students from other disciplines than industrial design who wish to specialise within the design field. Many of the students on the course have degrees in non-design disciplines and are looking to either broaden their competence in design or in order to collaborate with industrial designers or to change study direction and specialise within the field of design.

Upon completing the course, students can work in design related professions with a special competence in industrial design work methods and processes, and will have produced a portfolio which enables them to apply for other educations within the design field.

Interaction Design
(advanced level)

Developments in information technology have challenged traditional design tradition by demanding a shift of emphasis from the idea of “product-as-object” towards the notion of “product-as-event”. The dynamic and interactive qualities of products and services need to be better understood in the context of human behaviour. This shift of focus has inspired us to develop our Interaction Design courses and to initiate new areas of research in the design field.

It has become a major challenge for industrial designers to design useful and easily comprehensible products and services and therefore this has become an increasingly important part of industrial design education. The convergence of computing, communications and media has given rise to products and services ranging from mobile telephones to social media environments where functional and technological complexity have often resulted in confusion and frustration for users.

Our interaction design education offers exciting opportunities for designers to extend their existing skills into new territory where the focus is on people’s needs rather than technological capability. Our vision for interaction design is not only about the design of the object but also about the object of design.

Advanced Product Design
(advanced level)

The course package in Advanced Product Design is a solution driven education that focuses on the advanced treatment of design - using user studies, problem identification and analysis, new technologies and materials, and above all, an emphasis on innovative and new thinking - to find the best possible solution for a given problem or identified design opportunity.

A future technological perspective is often adopted in the program’s term and degree projects, offering students and external collaborative partner’s opportunities to explore converging technologies together with new user and market scenarios, and develop a variety of conceptual solutions, based on a solid foundation of professional tools, and analytical and creative work methods.

The philosophy of the courses is to combine the knowledge and insights of today’s hard core product design with the possibilities that arise when applying both the physical and digital technology of tomorrow, induced with an universal approach and respect for human and nature that characterise the Scandinavian design tradition. With this as a starting point, the next generation of industrials designers have all the possibilities at hand to build new knowledge and to broaden the scope of product related functionality and experiences.

Transportation Design
(advanced level)

During the last century man has come to depend on transportation as a social and lifestyle necessity. The world has evolved with the desire and need to use vehicles. Cars, for instance, have become an integral part of our culture.

Today, population growth and environmental issues are challenging the transportation industry. New solutions to vehicles and transport systems must be found. Innovation for mobility is required globally. Designers have a major role to play in developing functional, safe and ergonomic products and systems which will include qualities that are desirable and appealing to an increasingly intelligent and discerning group of users. Designers have the digital tools to give an insight into the future possibilities of transport.

The advancement and availability to powerful 3D software and rapid prototyping tools mean that designers are able to quickly visualize future life situations involving vehicles.

At the UID, students have the opportunity to quickly explore their design ideas and bring them closer to reality with the help of such tools. Our course package is unique in its scope of interest, dealing with the whole transportation design field in cooperation with industry. Students are educated to have an open mind on both conceptual ideas and detailed realistic design solutions. They are encouraged to have a balanced thinking process where form and function work together.

Special requirements
Application is made in two steps:
1. Through the national online application service: Universitadsmissioner.se
2. Portfolio sent to Umeå Institute of Design. Information about application at www.uid.umu.se

- English: IELTS/TOEFL, 6.5/90.

Tuition fee
The tuition fee for the course package, 60 ECTS, is 270,000 SEK.

Contact information
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Institute of Design
Science without Borders
Robotics and Control
60 Credits

About the programme
Field robots, artificial intelligence, mobile robots and embedded systems. The course package in Robotics and Control covers important aspects of modern robotics. Lectures, lab work and projects are closely connected to ongoing research at Umeå University.

Lectures, lab work, projects, and assignments connects to ongoing research at Umeå University.

Many courses contain a large portion of laboratory work to provide hands-on experience using the state of the art software and hardware. The study focus may be put on artificial intelligence related robotics or control related robotics, depending on the student’s interests.

Contact information
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Department of Applied Physics and Electronics

Special requirements
• 15 ECTS in Computing Science
• 7.5 ECTS in Electronics
• 30 ECTS in Mathematics
• 7.5 ECTS in Mathematical Statistics
• English: IELTS/TOEFL 5.5/72

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Science without Borders
Computational Science and Engineering
60 Credits

About the programme
Computational Science and Engineering is an essential pillar in both scientific research and advanced industrial development. The course package gives both a basic knowledge of this field - and a specialization needed to successfully complete projects in research and development. Computational Science and Engineering (CS&E) is by nature interdisciplinary. The main goals of CS&E are understanding, analyzing, predicting the behavior of, and finally optimizing complex systems.

CS&E combines different disciplines such as computer science including numerical analysis, applied mathematics, physics and technology. The applications are found literally everywhere and typically deal with complicated and/or complex systems. Applications include image analysis, optimization of industrial processes, risk analysis, web-based information search, the mechanism behind aurora borealis, pricing of financial derivatives, computer games, and, special effects in movies.

The course package begins with four compulsory courses that provide both basic knowledge and a solid foundation for the specialized courses that follow.

The package comprises two different paths for the second semester. The first path focuses on analyzing both the mathematical models (partial differential equations) used to describe the complex systems and the efficient implementation of algorithms on parallel computers. The second path considers stochastic processes, time series analysis and data intensive methods in statistics.

The course package is interdisciplinary and deals with several important aspects of the field of robotics, such as autonomous systems, field robotics, artificial intelligence, computer vision, mobile robots, embedded systems, modeling and control systems.

The course package in interdisciplinary and deals with several important aspects of the field of robotics, such as autonomous systems, field robotics, artificial intelligence, computer vision, mobile robots, embedded systems, modeling and control systems.

Contact information
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Department of Computing Science

Special requirements
• 15 ECTS-credits in Computing Science (with a minimum of 7.5 ECTS-credits in Programming and 7.5 ECTS-credits in Numerical methods).
• 30 ECTS-credits in Mathematics (including single- and multivariable analysis and linear algebra).
• 7.5 ECTS-credits in Mathematical statistics.
• English: IELTS/TOEFL 5.5/72

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Science without Borders
Computing Science
60 Credits

About the programme
Artificial Intelligence, human-computer interaction, data bases and distributed systems. If you want to deepen your expertise in computing science, this course package gives you a golden opportunity.

The course package in Computing Science provides deeper knowledge and skills in some of the most important areas of Computing Science: Artificial Intelligence, Theoretical Computer Science, Computer Organization and Architecture, Database Systems, and Emergent Systems. If you are specifically interested in distributed systems and cloud computing, there is an alternative track that lets you learn more about this area. Our teachers, who usually also conduct research related to the subjects they teach, try to create an inspiring atmosphere for those who want to know more than just the basic facts.

For successful studies, you must already have both theoretical and practical knowledge and skills regarding algorithmic problem solving, and you must be able to program your algorithmic solutions to computational problems in different programming languages like C, Java and Python. You also have to be able to add new programming languages to your repertoire without much explicit help.

In addition to these practical skills, you need basic knowledge in theoretical computer science concerning automata and formal languages, computational complexity, and computability. For the special track on distributed systems and cloud computing, you need to be familiar with the basics of systems programming in languages like C.

Contact information
Frank Drewes, Programme Director
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Email: drewes@cs.umu.se
Department of Computing Science

Special requirements
• 7.5 ECTS-credits in Computer science.
• 22.5 ECTS-credits in Mathematics.
• Good knowledge and skills regarding algorithms and data structures, programming in at least two programming languages and software engineering.
• English: IELTS/TOEFL 5.5/72

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Roger Halling
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Department of Physics

Science without Borders
Computational Physics
60 Credits

About the programme
In computational physics, computing is used to solve complex physical problems that can’t be solved with analytical methods. Computational physics is commonly used for industrial purposes, for example to make computer simulations to test the properties of a product before it is put up for production.

The course package in Computational Physics will make you familiar with different methods for calculation and simulation. You will learn modern programming tools efficiently, knowledge useful also outside the field of physics.

The course package in computational physics is flexible and offers many different study paths to serve the interests of the individual student, hence the programme is well adapted to different career opportunities. Successful students are also offered a possibility to do a larger project (5 ECTS) during the second half of the programme.

In collaboration with the Departments of Mathematics and Ecology, the Department of Physics runs IceLab (Integrated Science Lab), a creative environment at Umeå University for integrating science from different fields, such as physics, mathematics, ecology, and sociology, with computation as the common denominator. Students are encouraged to contact IceLab for a project work.

Another interdisciplinary computer based institute at Umeå University is UMIT Research Lab, which focuses on applied information technology.”

Contact information
Roger Halling
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Email: roger.halling@physics.umu.se
Department of Physics

Special requirements
• 60 ECTS-credits in physics.
• Programming skills in MATLAB and IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Roger Halling
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Department of Physics

Science without Borders
Computational Physics
60 Credits

About the programme
In computational physics, computing is used to solve complex physical problems that can’t be solved with analytical methods. Computational physics is commonly used for industrial purposes, for example to make computer simulations to test the properties of a product before it is put up for production.

The course package in Computational Physics will make you familiar with different methods for calculation and simulation. You will learn modern programming tools efficiently, knowledge useful also outside the field of physics.

The course package in computational physics is flexible and offers many different study paths to serve the interests of the individual student, hence the programme is well adapted to different career opportunities. Successful students are also offered a possibility to do a larger project (5 ECTS) during the second half of the programme.

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Another interdisciplinary computer based institute at Umeå University is UMIT Research Lab, which focuses on applied information technology.”

Contact information
Roger Halling
Phone: +46 90 786 63 56
Email: roger.halling@physics.umu.se
Department of Physics

Special requirements
• 60 ECTS-credits in physics.
• Programming skills in MATLAB and IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Roger Halling
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Email: roger.halling@physics.umu.se
Department of Physics
About the programme
Photonics and nanotechnology are two of the most rapidly evolving research areas in physics. The Department of Physics at Umeå University offers students the possibility to deepen their knowledge in these fields.

The course package is divided into two study paths: The first, Atomic, Molecular and Optical Physics (AMOP) gives the students courses focusing on the properties of light. How light can be created by various types of laser, how it propagates in optical systems, how it interacts with atoms and molecules, and how it can be manipulated by various types of instrumentation such as interferometers, spectrometers, electro-optic devices, and nonlinear components. Particular focus is given to how light can be utilized for noninvasive and non-intrusive measurements of entities such as distance, speed, and vibration, and material properties such as thermal expansion and indices of refraction of gases. Also its role in spectroscopic techniques for environmental monitoring, medical applications, and chemical analysis is highlighted.

In the second path, Advanced Material and Nanotechnology (AMAN), the students will take courses focusing on the understanding of advanced materials, solar cells and nanotechnology. The courses focus on properties of advanced materials, such as supercapacitors, organic electronics, superconductors, giant magnetoresistors, and how such and other materials can be utilized for various advanced applications. The nanotechnology part focuses on how physical properties of materials change when the dimensions approach the nanometer scale and on materials that display such effects. Examples of materials and theories include carbon nanotubes, graphene, quantum dots, and theories to describe electrical and thermal transport for materials at the nanoscale.

Both study paths involve courses that have both theoretical and practical assignments and in all courses generic computer simulations. Math is an essential part of modern society. Our course package gives you theoretical knowledge of mathematics together with practical skills to apply them.

The purpose of this course package is to give an advanced theoretical knowledge of mathematics together with practical skills to apply this knowledge both to mathematical problems and in applications of mathematics.

The course package consists of a broad range of courses in mathematics, both applied and theoretical.

The selection of courses reflects the research conducted at the department and the respective courses are taught by active researchers.

The courses may lead to an advanced industrial position or serve as a platform for continued graduate studies.

Special requirements
- 60 ECTS credits in Physics.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Rolf Zale, Programme coordinator
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Department of Ecology and Environmental Sciences

About the programme
Mathematical Statistics

The purpose of this course package is to give an advanced theoretical knowledge of mathematical statistics together with practical skills to apply this knowledge both to theoretical and applied problems.

The course package consists of a broad range of courses in mathematical statistics, both applied and theoretical.

The selection of courses reflects the research conducted at the department and the respective courses are taught by active researchers.

The programme may lead to an advanced position as a statistician or serve as a platform for continued graduate studies.

Special requirements
- 60 ECTS in Mathematics including courses in Multivariable Calculus, Linear Algebra, Differential Equations, Discrete Mathematics and Mathematical Statistics.
- Basic knowledge in Computer programming.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Rolf Zale, Programme coordinator
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Email: rolf.zale@emg.umu.se
Department of Ecology and Environmental Sciences

About the programme
Mathematical Statistics

About the programme
Photonics and Nanotechnology

Science without Borders
Applied Mathematics

About the programme
Smartphones, digital cameras, advanced statistics, computer simulations. Math is an essential part of modern society. Our course package gives you theoretical knowledge of mathematics together with practical skills to apply them.

The purpose of this course package is to give an advanced theoretical knowledge of mathematics together with practical skills to apply this knowledge both to mathematical problems and in applications of mathematics.

The course package consists of a broad range of courses in mathematics, both applied and theoretical.

The selection of courses reflects the research conducted at the department and the respective courses are taught by active researchers.

The courses may lead to an advanced industrial position or serve as a platform for continued graduate studies.

Special requirements
- 60 ECTS credits in Physics.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Rogier Halling
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Email: roger.halling@physics.umu.se
Department of Physics

Special requirements
- 60 ECTS credits in Mathematics.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Peter Anton
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Mobile: +46 70 615 01 44
Email: peter.anton@math.umu.se
Department of Mathematics and Mathematical Statistics

Special requirements
- 60 ECTS in Mathematics including courses in Multivariable Calculus, Linear Algebra, Differential Equations, Discrete Mathematics and Mathematical Statistics.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Peter Anton
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Department of Mathematics and Mathematical Statistics

Special requirements
- 60 ECTS in Earth Sciences.
- 60 ECTS in Biology, Chemistry or Environmental Science and 30 ECTS in Earth Science.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Rolf Zale, Programme coordinator
Phone: +46 90 786 67 81
Email: rolf.zale@emg.umu.se
Department of Ecology and Environmental Sciences

Special requirements
- 90 ECTS in Earth Sciences.
- 60 ECTS in Biology, Chemistry or Environmental Science and 30 ECTS in Earth Science.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Rolf Zale, Programme coordinator
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Email: rolf.zale@emg.umu.se
Department of Ecology and Environmental Sciences
About the programme
Overfishing, pollution, climate change - the course package in ecology gives you skills to identify and characterize ecological problems, plan and execute investigations. If you wish to get a more advanced knowledge of ecology to increase your possibilities to get an advanced job in a company or government or to merit yourself for future PhD studies, this is an education for you.

The course package in Ecology at Umeå University will give you an advanced knowledge of ecological theory necessary for planning and executing research and nature conservation. The education is closely linked to the research conducted at the department of Ecology and Environmental Science.

Most of the practical exercises have their focus on northern ecosystems, but the education is still highly international since general theory and global environmental problems like overfishing, forestry, river regulations, pollution and climate changes are central themes in many courses.

All master level courses are given in English. Our department is highly international, with undergraduate and graduate students from 10 countries, including two from Brazil and PhD students from 14 countries, among them one from Brazil.

The education gives skills to identify and characterize ecological problems and plan and execute investigations and determine and study biological material. You will also learn how to analyze data statistically and how to present results in a report. Graduates work after graduation in companies, for the authorities or continue with their studies with environmental issues or problems on their own.

About the programme
Do you want to know more about the driving forces behind molecular processes and interaction? Or learn methods used to calculate the geometric and electronic structures of compounds? The course package in chemistry offers you courses on advanced level.

The courses we offer are basic courses on our master programme in Chemistry. They are designed to cover our strong research areas in Chemistry at Umeå University. The courses involve a number of our top scientists and provide a blend of theory, methods, but also practical work using our state of the art instrumentation.

The courses are organized to follow your progression in the field and will qualify for further research or learning in the area. However, depending on your interest the recommended courses could be exchanged with for example a practical project at any of our active research groups.

Note that course I is mandatory for course II, and that course III is mandatory for course IV. I) Advanced Experimental Tools in Chemistry, 15.0 Credits, II) Biophysical-Chemical Concepts, 15.0 Credits, III) Computational Chemistry, 7.5 Credits, IV) Computational Chemistry, 7.5 Credits.

Special requirements
- 60 ECTS-credits in Biology, of which 30 credits in Ecology.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
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Department of Ecology and Environmental Science

Science without Borders
Chemistry
60 Credits

Special requirements
- 60 ECTS-credits in Biology, of which 30 credits in Chemistry.
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
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Department of Chemistry

Science without Borders
Molecular Biology
60 Credits

Special requirements
- 30 ECTS-credits in Chemistry (with a minimum of 7.5 ECTS in Biochemistry).
- Practical experience of laboratory work (corresponding to a minimum of 20 ECTS). 45 ECTS-credits in the Bioscience area, covering Plant- and Animal Physiology, and Cell- and Molecular Biology and also including a minimum of 7.5 ECTS-credits in each of Genetics and Microbiology. (Degree (exam) project excluded).
- English: IELTS/TOEFL 6.5/90.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
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Email: mikael.wikstrom@molbiol.umu.se
Department of Molecular Biology

Science without Borders
Plant and Forest Biotechnology
60 Credits

Special requirements
- 15 ECTS in Chemistry.
- 60 ECTS in Biology (of which a minimum of 30 ECTS should be in Plant Biology or Cell- and Molecular Biology).
- English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 135,000 SEK

Contact information
Stefan Jansson
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Email: stefan.jansson@plantphys.umu.se
Department of Plant Physiology
Course packages in English

Science without Borders

Advanced Biomedicine
60 Credits

About the programme
The course package provides you with up-to-date knowledge in biomedicine and hands-on experience of experimental research. The course package provides an excellent basis for future academic studies in the medical area, for professional work in medical and pharmaceutical industry and for work within healthcare authorities.

The first part of Advanced Biomedicine consists of an advanced course based on four areas of excellence at Umeå University: infection, cancer, metabolic disease and neurobiology. In this course you will also be trained in bioinformatics, biostatistics, theory of knowledge and ethics.

The second part of your studies is dedicated to hands-on practical and theoretical training of modern biomedical and molecular biology techniques and their application in relevant medical research. The course Protein design and function focuses on recombinant DNA technology and isolation and characterization of proteins.

The course structure has emphasis on individual training to provide detailed knowledge in how to design experimental strategies and translate them into experiments. The teachers you’ll meet are leading scientists and you will continuously build your own scientific network. You will also be trained in documentation, evaluation of your results and to present your work in various scientific formats.

Special requirements
University education in one of the following fields: Biomedicine, Medicine, Dentistry, Molecular Biology, Biotechnology, Biochemistry or Biomedical Laboratory Science, including:
• 15 ECTS biochemistry or molecular biology
• Practical experience of experimental/laboratory work (equivalent to 30 ECTS-credits)
• English: IELTS/TOEFL 6.5/90.

Tuition fee
The tuition fee for the course package, 60 ECTS: 140,000 SEK

Contact information
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Department of Molecular Biology

Science without Borders

Public Health
60 Credits

About the programme
Are you interested in the relations between social conditions and health? Do you want to promote health and prevent diseases? Then you should consider our course package in Public Health. It includes courses on global health conditions, health systems analysis and methods for carrying out public health work.

By nature, Public Health is multidisciplinary, drawing on social sciences and medicine, using qualitative and quantitative methods to identify and address specific health risks before designing and implementing effective public health strategies.

Traditionally drawing on the fields of microbiology, entomology, parasitology and the management and control of infectious diseases, in today’s globalized world we are increasingly facing new public health challenges involving causation and prevention of chronic diseases.

The course package in Public Health includes a number of courses on global health conditions, on health systems analysis, on the relations between social conditions and health and on the methods that you need to carry out public health work.

The programme provides public health practitioners and researchers with the skills required to understand, and ultimately help improve and maintain the health status of the population.

We have many students from low and middle income countries. This makes up an exciting study environment where people with a different educational and cultural background meet.

Special requirements
• A higher education with a major in Public Health, Health Care or a relevant field in social science.
• English: IELTS/TOEFL 5.5/72.

Tuition fee
The tuition fee for the course package, 60 ECTS: 140,000 SEK

Contact information
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Department of Public Health and Clinical Medicine

Science without Borders

Sustainable Architecture
60 Credits

About the programme
This course package explores sustainable architecture in a holistic way including cultural, social and economic sustainability. We investigate and design urban environments and contextual building structures.

Architectural space and the reprogramming of existing buildings and environments in terms of density, use, texture and spatial qualities are the main focuses of investigations. The development of new constructions in cooperation with industry and the development of innovative strategies of sustainability are important part of the educational program and supplement a theoretical basis.

Given the fact that architecture is an international discipline the career as an architect is borderless. There is a need for knowledge about sustainable architectural strategies in various places in the world. As an architect educated at UMA you will have skills to work with organizations, local companies and industries in various cultures.

This will be in terms of:
• scientific skills to be capable to make analysis of the need and develop the program for solutions;
• theoretical skills to establish critical analysis and develop coherent sustainable concepts for the design projects needed;
• artistic and innovative skills to be capable to make architectural design to support or generate strategies and solutions;
• communicating competences (graphic, digital, oral and writing) to be able to develop dialogues with users, contractors, organizations, specialists etc.

Special requirements
Application is made in two steps:
1. Through the national online application service Universityadmissions.se
2. Portfolio sent to Umeå School of Architecture. More information about application and portfolio can be found at www.arch.umu.se.
• English: IELTS/TOEFL 5.5/72

Tuition fee
The tuition fee for the course package, 60 ECTS, is: 175,000 SEK

Contact information
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School of Architecture

Science without Borders

Architectural Intervention
60 Credits

About the programme
The courses in Architectural Intervention are structured around the idea of architectural intervention, interrogated in relationship to its duration and effects in and around the community where it takes place, in its potential to create community. Whilst the courses approach can be related to certain artistic practices, they are rooted in an understanding of spatial conceptualization and production as the architect’s most important skill.

The course package explores the possibilities of architectural practices which conceive and articulate diverse processes of community development and transformation. The “sites” of these interventions in the public sphere are in general, not given, and their ‘construction’ includes involvement with other institutions, governmental agencies and other actors. The projects are often developed in non-western environments, which makes cultural understanding and research also essential to the programme.

At the Laboratory of Immediate Architectural Intervention, we believe that our only option is to understand, critique, intervene in, and devise the various apparatuses which are enmeshed in our enactments of the world as human beings and therefore as architects in order to qualitatively transform the worlds we inhabit.

Special requirements
Application is made in two steps:
1. Through the national online application service Universityadmissions.se
2. Portfolio sent to Umeå School of Architecture. More information about application and portfolio can be found at www.arch.umu.se.
• English: IELTS/TOEFL 5.5/72

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Application fee for non-EU/EEA students
Students with citizenship in a country outside the European Union (EU), European Economic Area (EEA) and Switzerland will be required to pay a one-time 900 SEK (Swedish kronor) application fee. The application fee will cover the costs associated with the processing of an application. Students who are registered for a course or programme at a Swedish university at the time they submit their application will not be required to pay an application fee.

Tuition levels vary depending on subject. The specific tuition fee levels vary depending on the course and programme.

Housing Guarantee for exchange students and tuition-paying students from outside the EU/EEA
The International Housing Office (IHO) offers student housing to exchange students and students from countries outside the EU/EEA. Those eligible to apply for these scholarships are:
• students applying for a Master’s degree programme at Umeå University
• students who have Umeå University as priority 1 at universityadmission.se.

The selections for the scholarships are based entirely on the applicant’s academic merit. Selected candidates receive a full or partial reduction of the tuition fee.

The scholarship application period for 2015-16 academic year will open in November 2014.

Scholarships offered by Umeå University
The following scholarships are administered by Umeå University:

• Umeå University Scholarships
• Erling-Persson Scholarship
• Umeå School of Business and Economics (USBE) Scholarship
• Scholarships offered by the Swedish Institute

The Swedish Institute, a government agency, administers many scholarship programmes each year for students and researchers, from various non-EU/EEA countries, coming to Sweden to pursue their objectives at a Swedish university. The scholarship covers both the tuition fee and the expected living cost for the student. There are several scholarship categories, please visit the Swedish Institute website for more information at studyinsweden.se.

Other Scholarship opportunities
Umeå University is a participant of Ciência sem Fronteiras: Science without Borders Brazil Scholarship Programme. Students from Brazil may apply for scholarship via this programme.

Student support
Get the help you need with our International Office, Service Centres, helpful study advisors and Buddy Programme.

10 Reasons to Choose Umeå University

1. Satisfied students
84% overall student satisfaction rating according to the International Student Barometer, placing us 1st in Sweden for overall average satisfaction.

2. Academic excellence
Well-trained and dedicated teachers along with world-leading research.

3. First-class facilities and modern campus
Featuring the stunning new Umeå Arts Campus, IKSU Sport centre, University Library, and free high-speed Wi-Fi.

4. Breath-taking nature
Experience the Northern Lights, arctic landscape, endless summer nights and beautiful open countryside.

5. Highly International
Students, faculty and staff from all corners of the globe. Over 52 languages are spoken in Umeå.

6. City of Culture
Music festivals, theatre, opera and more. European Capital of Culture in 2014.

7. Student support
Get the help you need with our International Office, Service Centres, helpful study advisors and Buddy Programme.

8. Accommodation
Guaranteed for exchange and tuition fee paying students.

9. Sports minded
Home of Europe’s largest training and fitness facility (IKSU Sport) and many elite local sports teams.

10. Wide selection
Over 500 courses and 30 degree programmes available with English language instruction.
More information on the web:

Umeå University homepage
www.umu.se/english

Courses and Programmes in English
www.umu.se/english/education

Infocenter Universum
www.infocenter.umu.se/english

About the city of Umeå and the surrounding region
www.umu.se/english/umea

Videos: “This is Umeå University”
www.umu.se/english/about-umu

“Sweden’s Most Satisfied Students”
www.umu.se/english/education/satisfied-students

Contact us
Use the contact form for future prospective students
www.umu.se/en/contact/prospective-students
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