

# STUDY AT AARHUS UNIVERSITY\*

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\***OR** A WAY TO GET YOUR DEGREE FROM A TOP 100 UNIVERSITY IN DENMARK



AARHUS UNIVERSITY



# DEGREE PROGRAMMES 2021

## (COMPLETE LIST)

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# BACHELOR'S DEGREE PROGRAMMES

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AARHUS UNIVERSITY



# BSC IN COGNITIVE SCIENCE\*

LEARN ABOUT THE MIND AND HOW TO INVESTIGATE IT



Cognitive Science is a fab new course that looks at the mind from new angles by combining multiple disciplines – psychology, neuroscience, or even philosophy. You will need some love for stats, but it's an interesting degree full of great and inspiring people. And you get the chance to research with Electroencephalography (EEG) and Functional Magnetic Resonance Imaging (fMRI)!

## SAVHANNAH SCHULZ

BSc in Cognitive Science, from Germany  
PhD Fellow at the Interacting Minds Centre

Cognitive Science is the study of the human mind and how it shapes and is shaped by our experiences and interactions. Students of cognitive science are introduced to the basic cognitive processes underlying our conscious and unconscious perceptions and actions – how we make decisions, how we use language to communicate and share emotions, how we interact socially with others. This involves learning scientific theories as well as engaging in practical exercises where students use computer programming and statistics to design and carry out their own investigations of the human mind, the brain, and human behaviour.

### AN INTERDISCIPLINARY ENDEAVOUR

The mind is hugely complex, and no single discipline can hope to exhaustively understand it. Cognitive Science combines theories, methods and insights from a range of disciplines such as neuroscience, philosophy, linguistics, anthropology, and psychology in a coordinated effort to investigate human behaviour and the human mind.

Teaching is organised around lectures and group sessions in which students participate in discussions, make presentations, and work in study groups. Students also take part in practical lab work where they

learn to analyse data from brain scans, behavioural experiments, and large text databases using computer programming and statistics. The Cognitive Science programme is embedded in a rich research environment surrounding Aarhus University's Centre for Functionally Integrative Neuroscience, its Interacting Minds Centre, and its Centre for Semiotics. Students can attend research seminars and learn about new findings on an almost daily basis.

### CAREERS

On completing the BSc in Cognitive Science, you will be in a position to choose from a range of master's programmes offering specialisation in topics such as cognitive science, neuroscience, information studies, or corporate communication. The interdisciplinary profile of the programme, combined with the concrete skills acquired in data acquisition, programming, and analysis, make graduates sought after by employers across a wide range of industries, including IT development, product design, neuroscience, consumer behaviour, and business analytics.



#### PLACE OF STUDY

Aarhus

#### WWW

[bachelor.au.dk/en/cognitivescience](http://bachelor.au.dk/en/cognitivescience)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 8,000

# BSC IN COGNITIVE SCIENCE\*

LEARN ABOUT THE MIND AND HOW TO INVESTIGATE IT

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER	5 <sup>TH</sup> SEMESTER	6 <sup>TH</sup> SEMESTER
Methods 1	Methods 2	Methods 3	Methods 4	Bachelor Project	
Introduction to Cognitive Science	Applied Cognitive Science	Perception and Action	Cognitive Neuroscience		Elective or Study Abroad
Cognition and Communication	Philosophy of Cognitive Science	Internationalisation Electives	Social and Cultural Dynamics	Elective	
30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS

## DEPARTMENT OF LINGUISTICS, COGNITIVE SCIENCE AND SEMIOTICS

The Department of Linguistics, Cognitive Science and Semiotics is one of the nine departments at the School of Communication and Culture at the Faculty of Arts.

Teaching in the department is not only research-based, but also research-oriented. Students are encouraged to collect and analyse data and to design and carry out experiments, either alone or in cooperation with the research staff. Students may even have their research published. Students regularly present their research to fellow students and staff at research seminars.



### PLACE OF STUDY

Aarhus

### WWW

[bachelor.au.dk/en/cognitivescience](http://bachelor.au.dk/en/cognitivescience)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# BSC IN ECONOMICS AND BUSINESS ADMINISTRATION\*

BUSINESS IN AN INTERNATIONAL ENVIRONMENT



This programme aims to give students a broad introduction to a number of economic, legal, and organisational issues within the field of business. In addition to business issues, the programme also considers socioeconomic aspects and the interaction between economics and business administration.

In specific terms, students learn to analyse a company's financial problems and issues and to develop business strategies.

Students also learn about organisation, marketing, logistics, accounting, project management, and innovation. They will develop insight into the theories and methods used to understand companies' internal and external relations.

The programme brings together students who share a common interest in what goes on in companies, organisations, and in society at large. Some students will be crazy about everything relating to stocks and bonds, others are mostly interested in management – but all will share a fundamental interest in business administration.

## PROGRAMME STRUCTURE, SPECIALISATION AND STUDY ABROAD

All semesters except for the fifth include compulsory courses within Economics and Business Administration. In the compulsory courses you will learn about financial and managerial accounting, organisation,

micro- and macroeconomics, marketing, finance, operations management, industrial organisation, and strategy. There are also a number of prerequisite courses in mathematics and statistics.

The programme offers considerable freedom of choice. As part of your specialisation in your fifth semester, you may choose from a wide range of elective subjects or alternatively study abroad at a business school or university outside Denmark.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

Graduates of the programme have everything they need to handle business administration issues in both multinational and international companies – whether in trade and industry, the service sector, financial institutions, or in accountancy or consultancy. The degree also qualifies graduates for further studies at master's level in Denmark or abroad.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus or Herning

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 8,500

## WWW

[bachelor.au.dk/en/economics-and-business-administration](http://bachelor.au.dk/en/economics-and-business-administration)  
[bachelor.au.dk/en/economics-and-business-administration-auhe](http://bachelor.au.dk/en/economics-and-business-administration-auhe)



# BSC IN ECONOMICS AND BUSINESS ADMINISTRATION\*

BUSINESS IN AN INTERNATIONAL ENVIRONMENT

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER	5 <sup>TH</sup> SEMESTER	6 <sup>TH</sup> SEMESTER
Mathematics	Quantitative Research Methods	Qualitative Methods	Marketing Management		International Business Law
Business Statistics	Management Accounting	Business Development with Information Systems (IS)	Finance	Profile, Electives or Study Abroad	Philosophy of Science
Financial Accounting		Industrial Organisation and Strategy			
Organisational Behaviour	Business Economics	Macroeconomics	Operation Management		Bachelor's Thesis
30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus or Herning

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,500

## WWW

[bachelor.au.dk/en/economics-and-business-administration](http://bachelor.au.dk/en/economics-and-business-administration)

[bachelor.au.dk/en/economics-and-business-administration-auhe](http://bachelor.au.dk/en/economics-and-business-administration-auhe)

# BACHELOR OF ENGINEERING IN GLOBAL MANAGEMENT AND MANUFACTURING\*

GLOBAL PERSPECTIVES ON INNOVATION, MANAGEMENT AND OPERATIONS



The Bachelor's programme in Global Management and Manufacturing (GMM) takes a global perspective on innovation, management, business processes, and the development of new products and services.

## STUDYING GMM

GMM is an international programme, so you will develop cultural understanding and international collaboration skills. Much of the teaching is project-based and takes place in collaboration with companies in Denmark or abroad. You will also be doing ancillary subjects such as mathematics and statistics.

## UNIQUE COMPANY COLLABORATION

The GMM programme is based on unique and intensive company collaborations. From the second to the seventh semester, you will be affiliated with one or more companies of your choosing. This will provide you with the opportunity to do research and problem-solving in real, practical settings, building further on your practical knowledge and experience. The collaboration develops into a kind of mentorship programme between student and company. Companies participating in the mentorship agreement include not only large international businesses such as LEGO, Arla, Vestas, and Siemens, but also smaller local companies.

## DEGREE PROGRAMME STRUCTURE

The duration of the GMM programme is three and a half years. The

programme is structured so as to allow you to work with both theory and practice throughout your studies. The courses provide you with tools that will allow you to understand company financial conditions, how to work innovatively, how to develop a new product, and how to structure company production most efficiently. This means that you will have a strong theoretical foundation to offer your mentor company.

## STUDENT LIFE AT CAMPUS HERNING

Students have many possibilities on campus. We provide accommodation for four hundred students, with facilities including a fitness room, a bar, free internet, and a laundry room. Campus Herning also has sports activities. The GMM programme has its own association offering social and academic events for all GMM students. As a GMM student you can become a member of IDA, the Danish engineering association, which also hosts events for members. There is also a study trip for the GMM students.

## CAREER OPPORTUNITIES

With a Bachelor's degree in GMM you can work in fields such as innovation, management, operations, logistics, sustainability, and digital transformation. You will be able to work on the Danish and international job market, as factory manager, technical manager, head of logistics, project manager, or consultant. You can also go on to do a Master's in Engineering, for example on the MSc programme in Technology-Based Business Development, also based in Herning.



## PLACE OF STUDY

Herning

## WWW

[bachelor.au.dk/en/gmm](http://bachelor.au.dk/en/gmm)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 12,500



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# BACHELOR OF ENGINEERING IN GLOBAL MANAGEMENT AND MANUFACTURING\*

GLOBAL PERSPECTIVES ON INNOVATION, MANAGEMENT AND OPERATIONS

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER	5 <sup>TH</sup> SEMESTER	6 <sup>TH</sup> SEMESTER	7 <sup>TH</sup> SEMESTER
Statistics	Enabling Technologies: Manufacturing	Industrial Accounting and Economy	Supply Chain Management and Purchasing	Internship	Elective Courses	Bachelor's Project
Mathematics	Industrial Statistics and Decision Making					
Operations and Quality Management 1	Operations and Quality Management 2	Organisational Behaviour	Global Management			
		Enabling Technologies: Digitalisation of Manufacturing	Product Development			
Company-Related Project 1 and Tools	Company-Related Project 2	Company Related Project 3	Company Related Project 4			
30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



## PLACE OF STUDY

Herning

## WWW

[bachelor.au.dk/en/gmm](http://bachelor.au.dk/en/gmm)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 12,500



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MASTER'S DEGREE PROGRAMMES

## MEDIA, COMMUNICATION AND INFORMATION

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JOURNALISM, MEDIA AND GLOBALISATION (ERASMUS MUNDUS)

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AARHUS UNIVERSITY





AARHUS UNIVERSITY



# MA IN JOURNALISM, MEDIA AND GLOBALISATION (ERASMUS MUNDUS)\*

TWO-YEAR INTERNATIONAL ERASMUS MUNDUS MASTER'S DEGREE

The Erasmus Mundus Master's in Journalism, Media and Globalisation offers a unique educational experience. Students on the programme study and live in at least two European countries. They engage in lively and insightful discussions with classmates from around the world in an interdisciplinary and intercultural environment that is both international and ambitious.

The MA in Journalism, Media and Globalisation rests on a collaboration between the social sciences and the humanities and between theoretical and practice-oriented approaches. The fruit of this cross-disciplinary approach is a joint understanding that cuts across academic disciplines, journalistic genres, and geographical and cultural settings.

The degree has been a part of the Erasmus Mundus study programme since 2005 and has continually evolved in order to best prepare students for the global changes that increasingly challenge the traditional boundaries between media, politics, technology, and culture.

## LEARN AT LEADING INSTITUTIONS

Students spend their first year jointly between Aarhus University – taught by faculty from the Department of Political Science and the Department of Information and Media Studies – and the highly respected Danish School of Media and Journalism. In year two, the programme splits into three specialisations offered by some of Europe's leading universities.

This allows students to customise their studies in the following areas:

- Politics and Communication at the University of Amsterdam, the Netherlands
- Totalitarianism and Transition at Charles University, Prague, Czech Republic
- Business & Innovation at City, University of London in the United Kingdom

Visit [www.mundusjournalism.com](http://www.mundusjournalism.com) for more information about the MA in Journalism, Media and Globalisation.

## STUDENT LIFE

As an Erasmus Mundus student, you can expect a cultural experience both inside the classroom and out. The programme brings together students from all around the world to join a tight-knit community of inspired and talented young professionals in Aarhus.

Students are also offered a number of extra-curricular activities in which they can try out their theoretical skills in practice. In Aarhus, Erasmus Mundus students have set up two media platforms – Jutland Station, an online magazine, and Planet Mundus, a radio outlet covering everything from politics to sport in Aarhus from an international perspective. Similar initiatives are found at the partner universities.



“I cannot think of any other study programme that is more international and diverse than the Erasmus Mundus programme. Class sessions are not just a daily routine you commit to, but more of a golden opportunity to connect with an array of backgrounds. You simply travel the world in your classroom. My professional background involves global advocacy and media relations, so the programme has been a perfect match in strengthening my skills and knowledge as a global advocate and media practitioner.”

**SAMIA FITOURI**

MA in Journalism, Media and Globalisation, from Tunisia



## PLACE OF STUDY

One year in Aarhus, one year at one of the partner universities.

**WWW**

[mundusjournalism.com](http://mundusjournalism.com)

## EXPECTED TUITION FOR THE 2-YEAR STUDY PROGRAMME

EU/EEA/Swiss citizens: EUR 9,000

Others: EUR 18,000

# MA IN JOURNALISM, MEDIA AND GLOBALISATION (ERASMUS MUNDUS)\*

TWO-YEAR INTERNATIONAL ERASMUS MUNDUS MASTER'S DEGREE

## CAREERS

Graduates of the MA in Journalism, Media and Globalisation have found jobs in international journalism, as editors or reporters at news institutions around the world, and in communication at international companies and organisations. After studying with an international group of young journalists and communications professionals, students can expect to leave the programme with an extensive network of professional contacts and friends around the world.

Graduates are eligible to apply for PhD programmes at Aarhus University and elsewhere.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER & 4 <sup>TH</sup> SEMESTER	
Identifying global challenges to journalism 10 ECTS	Researching society and journalism 20 ECTS	Specialisation in: - Politics & Communication, University of Amsterdam - Totalitarianism and Transition, Charles University - Cultures & Contexts, LMU Munich	
Researching media and journalism 20 ECTS	Elective / Internship 10 ECTS		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## PROGRAMME STRUCTURE

Students are awarded a joint degree from Aarhus University and from one of the European specialisation universities. In addition, students can apply to complete 30 ECTS at a partner university in the second semester of year one – choosing between the University of California Berkeley, California, Pontificia Universidad Catolica de Chile, the University of Technology Sydney, Australia, Fudan University Shanghai, the University of Cape Town, South Africa, or the University of Hamburg, Germany, Lebanese American University in Lebanon City, University of London in United Kingdom, Swansea University in Wales, United Kingdom. Alternatively, students can now also choose to replace their elective in the second semester in year one with an approved internship.

## ERASMUS MUNDUS SCHOLARSHIPS

The Mundus Journalism Consortium offers a limited number of Erasmus Mundus student scholarships, funded by the EU, for students admitted to the Mundus Journalism Masters course in 2021.

### Category A scholarships of up to EUR 49,000 for the two-year programme:

Category A scholarships are open to citizens and/or residents of any country other than the EU member states, Iceland, Liechtenstein, and Norway, provided that they are not currently resident in those countries and have not carried out significant activity (studies or work) in any of those countries for more than a total of twelve months in the last five years.

### Category B scholarships of up to EUR 34,000 for the two-year programme:

Category B scholarships are open to citizens and/or residents of the EU member states, Iceland, Liechtenstein, and Norway, as well as to students who do not meet the Category A criteria as defined above.



### PLACE OF STUDY

One year in Aarhus, one year at one of the partner universities.

**WWW**

[mundusjournalism.com](http://mundusjournalism.com)

### EXPECTED TUITION FOR THE 2-YEAR STUDY PROGRAMME

EU/EEA/Swiss citizens: EUR 9,000

Others: EUR 18,000

# MASTER'S DEGREE PROGRAMMES

## SOCIAL SCIENCES, POLITICS AND ECONOMICS

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ECONOMICS AND MANAGEMENT	20
HUMAN SECURITY	22
POLITICAL SCIENCE	24
QUANTITATIVE ECONOMICS	26







AARHUS UNIVERSITY



# MSC IN ECONOMICS AND MANAGEMENT\*

STUDYING IN AN INTERNATIONALLY RENOWNED ENVIRONMENT WITH YOUR OWN PERSONAL PROFILE



## AN INTERNATIONALLY RENOWNED RESEARCH ENVIRONMENT

The two-year MSc programme in Economics and Management gives students an in-depth knowledge of a range of economics and business economics disciplines. The programme's flexibility also gives students the opportunity to specialise in a specific field or across a range of economics and management topics.

Researchers in the programme work in the fields of accounting, finance, macroeconomics, microeconomics, econometrics, and the economics of business, and the MSc programme allows students to create a personal academic profile within one or across several of these fields. Progress in the chosen courses is closely followed and monitored to ensure students' academic development. Each semester, the department also offers about thirty elective courses. The broad range of courses allows you to specialise in a particular field of interest and to compose an individual course programme.

## IN THE COMPANY OF NOBEL LAUREATES

Students on the programme are based in the Department of Economics and Business Economics. The department is renowned for setting high academic standards. It engages in close collaboration with many leading international researchers, including Nobel Laureate Robert F. Engle and, until his death in 2014, Dale T. Mortensen. The department's outstanding research environment includes the Centre for Research in Econometric Analysis of Time Series (CREATES), where Robert F. Engle serves as member of the advisory board, and the Dale T. Mortensen Centre, among others.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

## INTERNATIONAL DIVERSITY

The academic environment at the department is characterised by international diversity: more than one-third of its academic staff and PhD students have an international background. The international atmosphere provides the basis for an enriched and exciting student life.

## GRADUATES IN HIGH DEMAND

Economics and Management graduates are in very high demand on the labour market. Many graduates achieve top executive positions in the corporate world (e.g. in financial institutions and consulting firms) or management advisory positions in the public sector (e.g. in ministries and local authorities).

Moreover, the international character of the programme allows graduates to work with equal ease in both Danish and international organisations, consulting firms, ministries, government agencies, and financial institutions – including commercial banks, mortgage institutions, pension funds, insurance companies, and investment banks. Students who are interested in pursuing an academic career may also progress to the PhD programme. The department offers a special transitional arrangement for honours students who wish to continue their research training in the PhD programme.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/economicsandmanagement](https://masters.au.dk/economicsandmanagement)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

# MSC IN ECONOMICS AND MANAGEMENT\*

STUDYING IN AN INTERNATIONALLY RENOWNED ENVIRONMENT WITH YOUR OWN PERSONAL PROFILE

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Electives	Electives	Electives	THESIS
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/economicsandmanagement](https://masters.au.dk/economicsandmanagement)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

# MSC IN HUMAN SECURITY\*

## CHALLENGING CONVENTIONAL UNDERSTANDINGS OF SECURITY

Human Security is a unique interdisciplinary Master's programme and the first of its kind in Europe. Over your two years of study you will learn several approaches to human security and you will achieve a deep understanding of conflicts and ecosystems all over the world. You will learn to analyse and you will learn how to intervene in settings comprising complex and interwoven social, environmental, economic, and political factors. At the same time you will develop the ability to carry out an informed and critical analytical assessment of human and environmental safety by combining scientific theories with real-life experiences.

### A HOLISTIC APPROACH TO SECURITY

During recent years, the concept of "human security" has become a rallying point for understanding and working with processes of human development in unstable environments. Growing challenges posed by global environmental change threaten to trigger a rapid escalation in conflicts throughout the world. Intensified competition for scarce resources, dwindling supplies of essential commodities, and a continued increase in global population rates are just some of these challenges. While human security is about the absence of physical violence, it is also more than this: human security is about freedom from fear, which is also freedom from want, and being able to live a life with dignity.

### AN INSPIRING LEARNING ENVIRONMENT

The programme is the fruit of a collaboration between the School of Culture and Society and the Faculty of Science and Technology and is taught at the historic Moesgaard Campus. The programme lecturers come from a variety of departments and backgrounds including Anthropology and Bioscience, supplemented by visiting lecturers from around the globe. The programme is interdisciplinary both in academic content and in its student body: our students have come from all over the world and from very different academic backgrounds – the humanities, social science, natural science – which enriches and enlivens the learning atmosphere.

### CAREERS

Graduating with a Master's in Human Security will open up job opportunities across many different sectors. Depending on your interest, you will be able to work for NGOs, international organisations, governmental agencies, private companies, or consultancies dealing with issues and topics that involve human security. The programme's monthly Human Security Profiles contain concrete career examples – see [www.humansecurity.dk/profiles](http://www.humansecurity.dk/profiles).



◀ I am currently working with DanChurchAid, a Danish international NGO, in a roving position as Global Humanitarian Adviser where I travel for about fifty per cent of my time supporting our country offices and partner organisations. I specialise in cash transfers and markets-based programming in humanitarian settings, so most of my time is spent training, setting up, and monitoring programmes for emergency food security and livelihoods. My studies gave me the practical and theoretical background to work in this field and I use my methodological background in both anthropology and human security on a daily basis – in focus-group discussions at field level or in analysing complex crisis settings and supporting programme development. On a professional level, I work with concepts of individual, community, economic, and food security, which are highly relevant in the humanitarian sector to ensure high-impact programming in my work with cash-and-markets-based programmes, gender-based violence, and community-led protection."

**MAJA TØNNING**  
MSc in Human Security



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/humansecurity](http://masters.au.dk/humansecurity)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 8,000

# MSC IN HUMAN SECURITY\*

CHALLENGING CONVENTIONAL UNDERSTANDINGS OF SECURITY

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Core Concepts Contextualised	Agroecology, food systems and food security	Internship/Field Study	THESIS
Tropical Ecosystem Management and Human Security	Research Project Design		
	Conflict Dynamics and Management	Thesis Preparation	
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## DEPARTMENT OF ANTHROPOLOGY

The Department of Anthropology, in which the Human Security programme is based, is among the strongest academic environments in Europe. The department attracts guest researchers, PhD students and students from all over the world. Our teaching is deeply anchored in our research, with particular specialisations within globalisation and development, innovation and design, and medical as well as visual anthropology.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/humansecurity](https://masters.au.dk/humansecurity)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MSC IN POLITICAL SCIENCE\*

A BROAD, RESEARCH-ORIENTED DEGREE PROGRAMME



Does diversity jeopardise the welfare state? How is political radicalisation prevented? Why are Scandinavians more trustful than other people? At the Department of Political Science our objective is to choose the right research strategies, methods, and theoretical concepts that will enable us to answer such questions. This may involve conducting surveys, statistical modelling, or interviews, spending hours at the library, or going on field trips to the Middle East.

The MSc in Political Science is the flagship degree of our top European political science department, whose high ratings and research attract academics from around the globe to its vibrant community of scholars. This is a high-quality, two-year programme for those who seek a comprehensive political science master's focusing on research design and methodology. The programme gives students the possibility to specialise in the subfields of comparative politics, political theory, political sociology, international relations, public policy, or public administration.

## IN THE RANKINGS

Political science at Aarhus University is ranked 21<sup>st</sup> in the world in the 2019 Shanghai ranking.

## QUALITY TEACHING IN AN INFORMAL LEARNING ENVIRONMENT

The MSc in Political Science is dedicated to the highest-quality teaching in an informal and egalitarian learning environment. Students are always welcome to approach the teaching staff, whose doors are open to anybody wishing to propose a supervised reading course, for example. Students are expected to engage actively in classroom debates. They also collaborate in small-scale comparative projects that make the most of the international study environment.

## VARIETY AND OPPORTUNITIES

The MSc in Political Science is flexible, giving students the opportunity to design their own course programme. Talented students may even be offered a chance to work as research assistants on ongoing projects. Some students will spend a semester abroad at one of our partner institutions or do an internship in a company or organisation.

## CAREERS

MSc students pursue careers in which independent analytical skills are crucial. They find challenging jobs in academia and in key policy organisations, or as consultants, analysts, or strategists in firms, NGOs, and the public sector. For half a century the department has produced a flow of illustrious alumni, from government ministers to the present Secretary-General of the EU's Council of Ministers



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/politicalscience](https://masters.au.dk/politicalscience)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



# MSC IN POLITICAL SCIENCE\*

A BROAD, RESEARCH-ORIENTED DEGREE PROGRAMME

## A SELECTIVE PROGRAMME WITH PHD OPENINGS

Independence, commitment and hard work are required to join this programme, and students will need to demonstrate excellence and dedication in their bachelor's degree. Those who excel in their master's may go on to apply for a place in one of our first-rate PhD programmes. This could be the first step in an international academic career.

## SCHOLARSHIPS FOR OVERSEAS STUDENTS

The MSc is free for EU/EEA and Swiss students. Highly qualified international students may apply for a limited number of scholarships/ tuition fee waivers.

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Advanced Political Analysis: Designing and Conducting Political Analysis	Political science seminars	Social science seminars	THESIS
Political science seminar			
30 ECTS	30 ECTS	30 ECTS	30 ECTS



## PLACE OF STUDY

Aarhus

## WWW

masters.au.dk/politicalscience

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN QUANTITATIVE ECONOMICS (IMSQE)\*

A QUANTITATIVE AND ANALYTICAL FOCUS FOR THE ELITE STUDENT



The International Master of Science in Quantitative Economics (IMSQE) is an elite programme at the Department of Economics and Business Economics at Aarhus BSS. Students tailor their own study programme on the basis of a range of advanced courses with a quantitative orientation, including selected PhD-level courses. The programme requires strong analytical skills in quantitative methods, and there are special requirements regarding the level and qualitative content of written assignments. A particular emphasis is placed on the students' analytical and quantitative skills.

## LEARNING OBJECTIVES AND AIMS

The IMSQE programme provides its students with a number of outstanding qualifications. You will acquire analytical skills at a very high level. You will therefore be able to apply the methods you have learnt to new cases, to formulate new theories, to formulate and test hypotheses, and to reflect upon the validity and relevance of various scientific methods and substantive theories within the field. To do this, students need to be able to think independently, not just to reproduce known material.

The aim of the IMSQE programme is to provide candidates with advanced-level training within the analytical, quantitative disciplines of macroeconomics, microeconomics, econometrics, finance, and accounting. The IMSQE programme aims to recruit students within quantitative economics and business economics in competition with such leading institutions as the London School of Economics, Oxford University, and Cambridge University.

## CAREERS

Graduates who complete the IMSQE programme acquire analytical skills at a very high level. These are in increasing demand. Potential future employers of these graduates are international and Danish organisations, consulting firms, ministries and government agencies, and financial institutions such as commercial banks, mortgage institutions, pension funds, insurance companies, and investment banks. The IMSQE programme also provides an excellent opportunity for candidates to continue their studies at PhD level. For students who wish to continue on to the PhD programme, a special arrangement is provided to bridge the transition from the IMSQE programme to research training.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/quantitativeeconomics](https://masters.au.dk/quantitativeeconomics)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



# MSC IN QUANTITATIVE ECONOMICS (IMSQE)\*

A QUANTITATIVE AND ANALYTICAL FOCUS FOR THE ELITE STUDENT

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Electives	Electives	Electives	THESIS
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/quantitativeeconomics](https://masters.au.dk/quantitativeeconomics)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

# MASTER'S DEGREE PROGRAMMES

## FINANCE, BUSINESS AND MANAGEMENT

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### ***ECONOMICS AND BUSINESS ADMINISTRATION:***

- BUSINESS INTELLIGENCE	30
- BUSINESS-TO-BUSINESS MARKETING AND PURCHASING	32
- COMMERCIAL RETAIL MANAGEMENT	34
- FINANCE	36
- FINANCE AND INTERNATIONAL BUSINESS	38
- INFORMATION MANAGEMENT	40
- INNOVATION MANAGEMENT AND BUSINESS DEVELOPMENT	42
- INTERNATIONAL BUSINESS	44
- INTERNATIONAL BUSINESS DEVELOPMENT	46
- INTERNATIONAL ECONOMIC CONSULTING	48
- MANAGEMENT ACCOUNTING AND CONTROL	50
- MARKETING	52
- OPERATIONS AND SUPPLY CHAIN ANALYTICS	54
- STRATEGY, ORGANISATION AND LEADERSHIP	56





AARHUS UNIVERSITY



# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – BUSINESS INTELLIGENCE\*

GENERATING SOLUTIONS TO REAL BUSINESS PROBLEMS



## GENERATING SOLUTIONS

Business Intelligence is concerned with the concepts and methods that can improve business decision-making by providing fact-based support systems. Organisations today increasingly use a set of techniques and tools to transform raw data into meaningful and useful information, to improve decision-making, to cut costs, to identify new business opportunities, and to pinpoint inefficient business processes that are ripe for re-engineering.

## APPLYING ACADEMIC STUDY IN THE REAL WORLD

To make the best decisions, businesses need to master both business and analytics. Through the MSc in Business Intelligence, you will develop knowledge and skills related to all the steps from identifying a business problem to implementing a final business intelligence solution. The programme covers aspects related to the streamlining and understanding of data and has a strong focus on analytics with the purpose of creating business value. Consequently, you will learn how to apply a broad range of modern data-mining tools, as well as to visualise results in such a way that the managerial implications are easier to communicate.

## QUALITY TEACHING IN AN INFORMAL SETTING

The MSc in Business Intelligence is dedicated to the highest-quality teaching in an informal, egalitarian learning environment. Students are always welcome to approach the teaching staff, and they are expected

to participate actively in the classroom. Collaborating in small groups for project work gives students the chance to make the most of the international student environment.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

As a Business Intelligence graduate you will have the ability to create data-driven solutions to the questions that not just businesses, but society and all kinds of organisations face. You will be well equipped to work as consultant and to serve as a linchpin between management and technical staff. You will be able to identify the opportunities that big data and related emerging technologies represent. With the programming, data processing, data-analytics, and data visualisation skills you have developed, together with your hands-on experience working with data sets, you will also qualify for data-analytics jobs.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/businessintelligence](https://masters.au.dk/businessintelligence)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – BUSINESS INTELLIGENCE\*

GENERATING SOLUTIONS TO REAL BUSINESS PROBLEMS

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Business Intelligence and Data Management	Customer Analytics	Internship/ AU Summer University / Study Abroad / Electives at AU	THESIS
IS Development & Implementation in a Business Context	Data Science Project		
Business Forecasting	Machine Learning for Business Intelligence 2		
Machine Learning for Business Intelligence 1			
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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## LEARNING IN AN INTERNATIONAL CONTEXT

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## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

## WWW

masters.au.dk/businessintelligence



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN ECON. AND BUS. ADMIN. – BUSINESS-TO-BUSINESS MARKETING AND PURCHASING\*

MEETING THE CHALLENGES OF CONTEMPORARY BUSINESS MARKETS



The MSc programme in Business-to-Business Marketing and Purchasing focuses on the managerial challenges related to operating in industrial markets. It prepares students for a wide range of careers, mainly in the private sector. Students on the programme gain skills in business-to-business marketing and strategy, purchasing management, relationship management, innovation, pricing, and the regulation of cooperation in business markets.

## DEEP UNDERSTANDING OF BUSINESS MARKETS

Firms operating in business markets cater to the needs of other firms rather than private households, and in so doing they face specific challenges and opportunities. Business-to-business activities constitute the main part of any developed economy, and managers who can understand, develop, and manage such activities – upstream as well as downstream – are an important asset to firms.

The first semester of the programme provides students with a deep understanding of the functioning of business markets through courses in buyer-supplier relationships and networks, as well as innovation in buyer-supplier relationships. First-semester courses also include marketing theory and research methods. Together, these prerequisite courses prepare students for the specialisation courses of the second semester, which cover topics such as business-to-business purchasing management, business-to-business sales and marketing management, pricing, and the regulation of marketing and purchasing cooperation.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of student activities, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations. There is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

The programme's focus on upstream as well as downstream activities means that students gain a deep knowledge not only of sales/marketing and purchasing, but also how to develop and manage relationships with customers and suppliers. This dual understanding makes graduates perfect for job positions such as key account manager (on the selling side) or category manager (on the buying side) – positions that hold many future career possibilities. Over time, graduates may develop careers within sales and marketing or purchasing, or they may choose to alternate between the two. With their knowledge and understanding of the many relationships between the firm and its various stakeholders, graduates will be well equipped for a range of general management positions.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/businessstobusiness](https://masters.au.dk/businessstobusiness)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

# MSC IN ECON. AND BUS. ADMIN. – BUSINESS-TO-BUSINESS MARKETING AND PURCHASING\*

MEETING THE CHALLENGES OF CONTEMPORARY BUSINESS MARKETS

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Buyer-Supplier Relationships and Networks	B2B Purchasing Management	Electives/Internship	THESIS
Marketing Theory	Business-to-Business Sales and Marketing Management		
Innovation in Buyer-Supplier Relationships	Pricing Strategy		
Business-to-Business Marketing Research Methods	Regulating Marketing and Purchasing Cooperation		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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## LEARNING IN AN INTERNATIONAL CONTEXT

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### PLACE OF STUDY

Aarhus

### WWW

masters.au.dk/businessstobusiness

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



# MSc IN ECONOMICS AND BUSINESS ADMIN. – COMMERCIAL RETAIL MANAGEMENT\*



The MSc in Commercial and Retail Management is based on the growing challenges faced by the consumer goods industry. It has been developed in close collaboration with prominent actors in the industry.

The degree programme prepares the student for a career in the HQ functions of the consumer goods industry and it provides an understanding of the industry's specific challenges, which paves the way for a faster climb up the career ladder.

The students will acquire qualifications in areas such as retail strategy and innovation, consumer behaviour, business negotiations, pricing, performance management as well as range, category and brand management.

## DEEP UNDERSTANDING OF THE VALUE CHAIN

Today, traditional retail trade is supplemented with e-commerce and various hybrids, and more and more communication takes place on social media. Companies must therefore be able to handle an omni-channel situation where a number of different sales and communication channels must be optimised in relation to each other. In addition, the ability to handle big data is becoming increasingly important in the consumer goods industry. This has led to changes in the relationship between supplier and retailer. The supplier must increasingly consider the entire value chain right through to the consumer, while the retailer must structure its supplier relations with an eye for how to create value for the consumer.

The traditional division of the B2B and B2C markets is thus developing towards a much-needed B2B2C mindset. The degree programme reflects this B2B2C mindset since the courses Supplier-retailer relations management, Business negotiations and Consumer behaviour in a retail setting cover the entire value chain from supplier to consumer. Furthermore, the students will acquire competences within areas that have a particular focus on the consumer goods industry such as retail strategy and innovation, pricing, performance and margin management, stock and waste management as well as range, category, and brand management. Digital transformation and the use of big data will play a prominent role in the programme and will recur in many courses.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

The degree programme prepares the students for a career in various HQ functions in the consumer goods industry. Based on the value chain approach, the students will be able to undertake many functions in either the supply or retail link of the value chain, especially within the consumer goods industry; from category manager or procurement manager to key account manager.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/retailmanagement](https://masters.au.dk/retailmanagement)



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



# MSC IN ECONOMICS AND BUSINESS ADMIN. – COMMERCIAL RETAIL MANAGEMENT\*

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Introduction to Value Chain Management	Pricing Strategy		
Consumer Behaviour in a Retail Setting	Commercial Negotiation Skills		
Retail Strategy and Commercial Innovation	Supplier-retailer Relations Management	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Commercial and Retail Research Methods	Range, Category and Brand Management		
	Stock and Waste Management		
	Performance and Margin Management		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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## LEARNING IN AN INTERNATIONAL CONTEXT

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Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

masters.au.dk/retailmanagement

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – FINANCE\*

IMMERSE YOURSELF IN THE FASCINATING DIVERSITY OF FINANCIAL MARKETS



## GLOBAL FINANCIAL MARKETS

Financial markets are vital to the current and future stability of firms, government bodies, nations – and of course to individuals and to society as a whole. The MSc in Finance will provide you with the knowledge and competencies you need to work in the world of international finance.

The MSc in Finance fuses rigorous academic research with applied skills and competencies. Focusing on global finance, the programme will prepare you for today's highly developed and integrated financial markets, in which graduates with degrees in finance are increasingly sought at the highest international level.

Financial decisions are to a large extent based on empirical observations. Thus acquiring the skills to apply econometric methods is part of our programme. In our experience, students gain much more from their studies when they have an interest in quantitative methods.

## UNIQUE PROGRAMME STRUCTURE

The MSc in Finance is a unique programme in which you will be working with internationally respected academic staff in an international environment. In the first year the programme addresses the key concepts of asset pricing, corporate finance, and financial derivatives modelling so as to familiarise you with the challenges of the financial markets. In the third semester, you can choose elective courses at Aarhus University, AU Summer University or (as an exchange student) at one of three

hundred partner universities abroad. You will also have the possibility to combine electives with an internship to strengthen your practical skill-set. Finally, the fourth semester is devoted to the master's thesis.

## QUALITY TEACHING IN AN INFORMAL SETTING

The MSc in Finance is dedicated to the highest-quality teaching in an informal and egalitarian learning environment. Students are always welcome to approach the teaching staff, and they are expected to participate actively in the classroom. Collaborating in small groups on projects gives students the chance to make the most of the international student environment.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

The MSc in Finance is an excellent foundation for many positions within international finance. Previous graduates have embarked on careers in financial institutions, regulatory bodies, consulting businesses, and finance departments in non-financial companies.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

masters.au.dk/finance

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – FINANCE\*

IMMERSE YOURSELF IN THE FASCINATING DIVERSITY OF FINANCIAL MARKETS

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Asset Pricing	Derivatives	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Corporate Finance	Securities Markets		
Applied Financial Econometrics	Financial Intermediation and FinTech		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

masters.au.dk/finance

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – FINANCE AND INT. BUSINESS\*

COMBINING ACADEMIC STUDY WITH REAL-WORLD APPLICATIONS IN AN INTERNATIONAL SETTING



## AN INTERNATIONAL ENVIRONMENT

Globalisation and internationalisation are affecting every nation, every level of industry, and virtually every business. One result is that demand is growing for economics and business graduates with an international background. The MSc in Finance and International Business will give you not only the professional qualifications for making strategic decisions in difficult and complex financial areas, but also experience and competency in performing in an international context.

## A UNIQUE PROGRAMME STRUCTURE

During the first year, key areas of study include the internationalisation process of companies entering foreign markets and the challenges that companies face in an international environment. Additionally, strategic and financial decision-making, financial reporting and accounting issues, and the theories of corporate finance and supporting empirical evidence are covered in the first two semesters. The academic content is combined with an applied approach in which the skills and competencies vital for handling these complex issues are developed. In the third semester, you can choose elective courses at Aarhus University, AU Summer University or (as an exchange student) at one of three hundred partner universities abroad. You also have the possibility to combine electives with an internship to strengthen your practical skill-set. Finally, the fourth semester is devoted to the master's thesis.

## QUALITY TEACHING IN AN INFORMAL SETTING

The MSc in Finance and International Business is dedicated to the highest-quality teaching in an informal and egalitarian learning environment. Students are always welcome to approach the teaching staff, and they are expected to participate actively in the classroom. Collaborating in small groups on projects gives students the chance to make the most of the international student environment.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

The MSc in Finance and International Business gives graduates the knowledge and skills required to take part in the processes of finance and business activities that span multiple national contexts. After graduating, most of our students pursue careers as financial managers, international controllers, international business strategists, business entrepreneurs, managers of foreign subsidiaries, or experts on mergers and acquisitions.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

masters.au.dk/financeandinternationalbusiness

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – FINANCE AND INT. BUSINESS\*

COMBINING ACADEMIC STUDY WITH REAL-WORLD APPLICATIONS IN AN INTERNATIONAL SETTING

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Corporate Finance	International Business Strategy	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
International Finance	Empirical Corporate Finance – Project		
Applied Econometric Methods	International Financial Accounting Corporate Valuation		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

masters.au.dk/financeandinternationalbusiness

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – INFORMATION MANAGEMENT\*

LEADING DIGITAL TRANSFORMATION AND INNOVATION TO DESIGN AND IMPLEMENT THE INFORMATION SYSTEMS LANDSCAPE FOR THE FUTURE



Information Management is a Master's degree for students who want to become experts in leading digital transformation, managing information, and building information systems that meet complex organisational needs.

A challenging and interesting degree programme will provide you with professional qualifications that enable you to play a key role in a modern organisation, working with digital transformation and digital innovation. Information systems and IT are enablers for innovation that transforms the economy and creates value.

You will thus be capable of participating creatively in the management of information resources and IT. You will learn how to deliver value from IT to make businesses, their services, and their products more attractive and competitive. You will learn to create and manage new IT systems to support business goals and strategies, frequently with international scope. You will be able to participate in strategic planning, formulate requirements for new IT systems, and implement these systems in businesses and organisations.

Working with information and IT requires you to perform multidisciplinary functions. This programme will prepare you for this by integrating project work and cooperation as tools in your learning process, and supporting this by close dialogue and contact between students and teachers.

The programme is not only for students with bachelor's degrees with IT elements. It is relevant for all students with a bachelor's degree within the field of economics and business administration who wish to combine IT and business studies.

## SOCIAL AND ACADEMIC ACTIVITIES

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## CAREERS

The programme offers great career prospects in roles such as IT manager, project manager, change manager, or consultant, often in global and international organisations.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/informationmanagement](http://masters.au.dk/informationmanagement)



# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – INFORMATION MANAGEMENT\*

LEADING DIGITAL TRANSFORMATION AND INNOVATION TO DESIGN AND IMPLEMENT THE INFORMATION SYSTEMS LANDSCAPE FOR THE FUTURE

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Information Systems Research Methods	Digital Innovation and Business Transformation		
IS Development and Implementation in a Business Context	IS Enterprise Architecture	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Project Management: A Practitioner's Approach - Including PRINCE2	IS Strategy and Management		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

masters.au.dk/informationmanagement

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



# MSC IN ECON. AND BUS. ADMIN. – INNOVATION MANAGEMENT AND BUSINESS DEVELOPMENT\*

INNOVATING AND DEVELOPING TOMORROW'S BUSINESSES



Innovation has become an imperative, not only for private firms but increasingly for the public sector too. CEOs and governments alike now consider innovation management one of the most important competencies in today's world.

This programme offers a solid background in innovation management including management of innovation from idea to commercialisation, innovation strategies, structures and cultures, market forces of innovation, and the management of intellectual property rights and entrepreneurship.

The MSc in Innovation Management and Business Development provides a unique opportunity to experience the challenges of innovation processes and to develop an understanding of the rationale behind both technology development and the development of markets and business. There is broad empirical agreement that a multidisciplinary understanding is key for successful cooperation between the technical and market-related focus in innovation marketing, and ultimately for innovation success. The programme aims to enhance students' understanding of strategies, structures, processes, people, and cultures so as to drive successful innovation and enhance the innovative capability of organisations.

## STRONG COMPETENCIES, FUTURE JOB OPPORTUNITIES

The programme will provide you with the competencies and skills you need to fill managerial positions in manufacturing and service companies and in consulting firms. You will be equipped to work specifically with planning and implementation of innovation strategies, creation and advancement of innovative processes, and development of new businesses.

In large companies, graduates of the programme have become champions for innovation by bridging the gap between R&D, production, and sales activities and helping to support and shape the innovation culture. In small and medium-sized companies, our graduates have acted as entrepreneurs, combining technological know-how with a profound business understanding.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/innovationmanagement](https://masters.au.dk/innovationmanagement)



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN ECON. AND BUS. ADMIN. – INNOVATION MANAGEMENT AND BUSINESS DEVELOPMENT\*

INNOVATING FOR TOMORROW IN A HIGHLY INTERNATIONAL ENVIRONMENT

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Innovation Management Research	Managing Innovation	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Innovation Challenge: Hands-on Project	Business Development, Innovation and Strategy		
Financing Innovation and Entrepreneurship	Appropriating Innovation - Managing Intellectual Property		
Classic Readings in Innovation and Entrepreneurship	Entrepreneurship		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

masters.au.dk/innovationmanagement

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – INTERNATIONAL BUSINESS\*

ENGAGE AND PARTICIPATE IN THE INTERNATIONAL WORLD OF BUSINESS



## GLOBAL ECONOMIC MARKETS

From simple exports to foreign direct investment or participation in border-crossing networks, economic markets are becoming increasingly globalised. Consequently, today's firms have to be able to adapt and respond to the changing character of the social, political, and technological forces at work in the global economic markets. The MSc in International Business deals with the internationalisation of businesses and related international activities.

In the first year, the programme addresses the key concepts of internationalisation, organisation, and management of foreign operations in order to familiarise the student with the challenges of economic globalisation and how to handle them. The emergence of global enterprises, emerging markets, global sourcing, the development of intercultural competencies, and the organisation of multinational corporations are covered, alongside the analytical tools necessary to research these topics. In the third semester, you can choose elective courses at Aarhus University, AU Summer University or (as an exchange student) at one of three hundred partner universities abroad. You also have the possibility to combine electives with an internship to strengthen your practical skill-set. Finally, the fourth semester is devoted to the master's thesis.

## QUALITY TEACHING IN AN INFORMAL SETTING

The MSc in International Business is dedicated to the highest-quality teaching in an informal and egalitarian learning environment. Students are always welcome to approach the teaching staff, and they are expected to participate actively in the classroom. Collaborating in small groups on projects gives students the chance to make the most of the international student environment.

## SOCIAL AND ACADEMIC ACTIVITIES

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## CAREERS

The MSc in International Business offers the knowledge and skills required to take part in processes and business activities that span multiple national contexts. Many alumni therefore choose to work in an international business context, or in international service companies offering consultancy services.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/internationalbusiness](https://masters.au.dk/internationalbusiness)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – INTERNATIONAL BUSINESS\*

ENGAGE AND PARTICIPATE IN THE INTERNATIONAL WORLD OF BUSINESS

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Methods in International Business Research	Organising and Managing the Multinational Corporation		
Emerging Markets, their Institutions and Challenges	Intercultural Competence	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
The Emergence of Global Enterprises	Human Resource Management and Development Global Sourcing and International Buyer Supplier Relationships		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

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## PLACE OF STUDY

Aarhus

## WWW

masters.au.dk/internationalbusiness

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN ECON. AND BUS. ADMIN. – INTERNATIONAL BUSINESS DEVELOPMENT\*



In today's business world, strong business development skills have become a vital, central part of company management and development. Companies and organisations need to develop their businesses, business models and processes rapidly and efficiently in order to meet the ever-changing needs and demands of customers and of society. For this reason, more and more companies are hiring business developers to carry out key management and development tasks in order to safeguard their existing markets and gain competitive advantage in new markets.

## BE ONE OF TOMORROW'S BUSINESS DEVELOPERS

The MSc programme in Economics and Business Administration – International Business Development aims to build the business developers of tomorrow. The programme focuses on business development and the implementation of strategies related to business development processes. It provides students with the analytical decision tools they will need to make the professional decisions that will ensure targeted management of the company's knowledge-workers, as well as innovation and optimisation of the company's business and processes. The programme is intended for students who wish to gain understanding and insight into business development in large global companies as well as small and medium-sized companies.

## UNIQUE COMPANY COLLABORATION AND JOB OPPORTUNITIES

The Department of Business Development and Technology in Herning has a unique collaboration with the regional business community, and our company collaborations connect the academic world with the demands of the business community. As a student on the programme, you will benefit from this unique network. You will be able to test your

knowledge, models, and tools in a business context. You will be in a position to strengthen your personal and professional skills, and you will learn to transform theory and academic knowledge in order to develop new business areas for the company you choose to work with. Collaborating and interacting with companies during your studies will increase your job opportunities and extend your professional network.

## STUDENT LIFE

International Business Development students study at the Department of Business Development and Technology, which is located in Herning in central Jutland. The campus is well known for promoting interaction between its different degree programmes on a continuous basis – a valuable asset for students preparing to enter the international, interdisciplinary business world. The department with its 1,600 students forms a vibrant, close-knit community of students and teachers. There are many extra-curricular options at the department, including a Danish favourite – the weekly Friday bar – as well as a student house, a fitness room, and options to join a variety of committees.

## BE A COMPANY INSIDER

The MSc in Economics and Business Administration – International Business Development will give you in-depth knowledge and experience of working within a company. Using that knowledge of the company and its markets, you will be able to critically analyse the company's internal processes with a view to optimising them. You will be able to conduct a professional analysis of the market potential of a new business area, product, or service. You will also be well equipped to develop the company's strategy.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Herning

## WWW

[masters.au.dk/intbusinessdevelopment](http://masters.au.dk/intbusinessdevelopment)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

# MSC IN ECON. AND BUS. ADMIN. – INTERNATIONAL BUSINESS DEVELOPMENT\*

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Advanced Business Economics	Advanced Marketing Management	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
International Business Strategy and Leadership	Business Model Development		
Business Research Methodology	Analytics for Decision Making		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Herning

## WWW

[masters.au.dk/intbusinessdevelopment](http://masters.au.dk/intbusinessdevelopment)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



# MSc IN ECONOMICS AND BUSINESS ADMIN. – INTERNATIONAL ECONOMIC CONSULTING\*

SOLVING THE GLOBAL CHALLENGES OF TODAY AND TOMORROW



What are the costs and benefits of building a new airport in Berlin? Do Bangladeshi farmers benefit more from direct financial support or price guarantees? How many cars will need parking space in Copenhagen in 2020? How can CO<sub>2</sub> quotas be priced and distributed efficiently? What pipelines need to be built in order to secure the EU's future gas supply?

These and many other challenges situated at the intersection of economics and management form the basis of the MSc in International Economic Consulting. The increasing complexity of international relations has led to a steadily growing demand for international economic consulting services. Large multinational corporations, regional and national policy-makers, international organisations like the World Bank, the EU, and the OECD, as well as a growing number of non-profit interest groups require sound economic analyses and feasibility studies for a wide range of issues.

## USING THEORY TO SOLVE REAL PROBLEMS

The International Economic Consulting programme will provide you with the up-to-date theoretical knowledge required for applied economic analyses. Topics ranging from relevant quantitative and empirical methods suitable for sectoral studies, to policy-impact analyses and forecasting, as well as training and concepts required for implementing national and international project consulting will introduce you to the

exciting field of international economic consulting. In the third semester, you can choose elective courses at Aarhus University, AU Summer University or (as an exchange student) at one of three hundred partner universities abroad. You also have the possibility to combine electives with an internship to strengthen your practical skill-set. Finally, the fourth semester is devoted to the master's thesis.

## QUALITY TEACHING IN AN INFORMAL SETTING

The MSc in International Economic Consulting is dedicated to the highest-quality teaching in an informal and egalitarian learning environment. Students are always welcome to approach the teaching staff, and they are expected to participate actively in the classroom. Collaborating in small groups on projects gives students the chance to make the most of the international student environment.

## CAREERS

The MSc in International Economic Consulting was developed in close cooperation with major players in the industry. As a consequence, its graduates are prepared for a range of job functions within the field. Past graduates have found jobs as consultants in domestic and international consulting companies, but also as economic advisers in private firms, international organisations, or non-profit organisations, and as analysts in regional or national governments.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



# MSC IN ECONOMICS AND BUSINESS ADMIN. – INTERNATIONAL ECONOMIC CONSULTING\*

SOLVING THE GLOBAL CHALLENGES OF TODAY AND TOMORROW

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Cost Benefit Analysis	Empirical Industrial Economics	Internship / AU Summer University / Study Abroad / Electives at AU	THESIS
Econometric Methods in Economic Consulting	International Economic Integration		
Developing and Emerging Economies	Tools for Empirical Economic Analysis and Consulting		
Organisational Economics and Strategy	Applied Economic Consulting		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

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## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/internationaleconomicconsulting](http://masters.au.dk/internationaleconomicconsulting)



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSc IN ECONOMICS AND BUSINESS ADMIN. – MANAGEMENT ACCOUNTING AND CONTROL\*

DELVING INTO A KEY ASPECT OF BUSINESS ADMINISTRATION



Management accounting is fundamental to business administration. The MSc programme in Management Accounting and Control covers management accounting techniques and their application in production companies, service industries, and in the public sector. The programme highlights the role and performance of the management accountant, both locally and in an international context.

## IMPROVING DECISIONS

The Management Accounting and Control programme seeks to equip students with a range of relevant management accounting concepts and theories so as to build a solid foundation for practice-oriented decision-making.

The programme aims to develop management technologies and test theories within production, reporting, analysis, and managerial use of financial as well as non-financial information. All management technologies and theories are intended for use in communicating financial events in the organisation, influencing decisions on resource allocation, and improving insight and feedback to the management of the organisation.

## PROGRAMME STRUCTURE

The programme applies a variety of teaching methods and types of evaluation. Students can expect traditional lectures, lectures with group

exercises, and lectures dedicated to casework. AU encourages and expects student participation – because those who work are those who learn.

An internship during the third semester is also recommended. This gives students the chance to experience and address some of the theoretical problems discussed during the first and second semester. This creates an appetite for more theory and is the foundation for writing a solid thesis.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

Graduates from the Management Accounting and Control programme are qualified for a variety of different types of job. Many have found jobs as controllers across a range of different organisations, and some have become business consultants. Our graduates have taken up jobs both in Denmark and abroad, and their attractive skill-set allows them to climb their chosen career ladder rapidly.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/managementaccountingandcontrol](https://masters.au.dk/managementaccountingandcontrol)

# MSC IN ECONOMICS AND BUSINESS ADMIN. – MANAGEMENT ACCOUNTING AND CONTROL\*

DELVING INTO A KEY ASPECT OF BUSINESS ADMINISTRATION

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Methods in Management Accounting Research	International Financial Accounting	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Cost Management – Theories, Models and Technologies	Financial Accounting and Decision Making		
Strategic and Organisational Concepts for Management Control	Practice Project in Management		
Planning and Budgeting	Accounting Information Systems		
	Performance Management		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. engaging in professional business activities in a global marketplace. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

## WWW

[masters.au.dk/managementaccountingandcontrol](https://masters.au.dk/managementaccountingandcontrol)

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – MARKETING\*

A STATE-OF-THE-ART APPROACH



The MSc programme in Marketing prepares students for a range of international management careers across public and private sectors.

Graduates have expertise in value creation, innovation, communication and channel management, pricing, marketing research, customer relationships, and marketing strategy.

## A KEY COMPONENT OF BUSINESS

Marketing is indispensable to top management when it comes to picking served markets, competitors, and business portfolios. Customers are central to marketing too, which means making promises that match the target group's needs and then meeting or exceeding expectations. Marketing can be applied to both commercial and non-commercial purposes – e.g. selling products or services, but also promoting favourable behaviour. This work is often international in scope, a characteristic mirrored in the course content offered on the programme at Aarhus University, which has an international staff and a diverse student body.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

Graduates with the MSc in Marketing have state-of-the-art knowledge about value creation and innovation management, channel management, pricing, marketing research, customer relationships, communications management, and marketing strategy. They are ready to take on a range of management roles including consumer or market-insights research consultancy, entrepreneurship, innovation, and communication in both private and public sectors. Their skills are very much in demand – so career prospects are very bright.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/marketing](https://masters.au.dk/marketing)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

# MSC IN ECONOMICS AND BUSINESS ADMINISTRATION – MARKETING\*

A STATE-OF-THE-ART APPROACH

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Marketing Theory	Marketing Communication	Electives / Internship / AU Summer University / Study Abroad	THESIS
Marketing Research Theory	Pricing Strategy		
Customer Value and Innovation	Marketing Channels and Brand Relationships		
Economic Psychology	Marketing Management and Strategy		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



### PLACE OF STUDY

Aarhus

### WWW

masters.au.dk/marketing

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN ECONOMICS AND BUSINESS ADMIN. – OPERATIONS AND SUPPLY CHAIN ANALYTICS\*

GETTING IT RIGHT: PRODUCT, AMOUNT, TIME, PLACE AND CUSTOMER



Operations and Supply Chain Management (O&SCM) is about planning and controlling the activities of a company as well as coordination between companies, in order to secure that the right product is delivered in the right quantities, to the right customer, at the right time, and at the right price.

Analytics refers to the scientific process of transforming data into insights for making better decisions.

In this programme, the main focus is to give you a theoretical foundation within O&SCM, and the specialisation will have a high focus on quantitative and analytical skills. As an Operations and Supply Chain Analyst, you need insight into digital tools for analytics to be able to handle and transform data and afterwards model and solve problems within O&SCM.

The programme provides you with an in-depth knowledge about

- How to design strategies in O&SCM.
- Methods for planning and controlling flows of goods and information in a supply chain.
- IT-based tools and how to work with data, matching the increased focus on big data, business analytics, and decision science.

The courses of the programme will provide you with analytical skills that enable you to appraise, systematically structure and analyse the possible solutions to complex problems in operations and supply chains, so that well motivated decisions can be made. The teaching form of the programme encourages student participation and in combination with the Master's thesis, this will provide you with self-management and communication skills.

## CAREERS

Graduates with the MSc in Operations and Supply Chain Analytics have found jobs analysing logistical performance or implementing new logistical solutions. They may start under the supervision of experienced colleagues and rapidly progress to managerial and executive roles. AU's holistic, analytical approach to logistics and supply chain management allows our graduates to be versatile in their future careers and to find success across a variety of sectors. Previous graduates have worked as project managers, economists, analysts, and consultants.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/operationsandsupplychainanalytics](https://masters.au.dk/operationsandsupplychainanalytics)



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



# MSC IN ECONOMICS AND BUSINESS ADMIN. – OPERATIONS AND SUPPLY CHAIN ANALYTICS\*

GETTING IT RIGHT: PRODUCT, AMOUNT, TIME, PLACE AND CUSTOMER

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Optimisation for Prescriptive Analytics	Demand and Production Management	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Supply Chain Design and Management	Applied Modelling in Operations and Supply Chains		
Tools for Analytics	Distribution and Transportation		
Business Process Modelling and Simulation	Inventory Management		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

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At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/operationsandsupplychainanalytics](https://masters.au.dk/operationsandsupplychainanalytics)



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



# MSc IN ECONOMICS AND BUSINESS ADMIN. – STRATEGY, ORGANISATION AND LEADERSHIP\*

LEARN TO LEAD IN TOMORROW'S BUSINESS WORLD



The way in which the world interacts and transacts is changing. Globalisation is increasing, competition is intensifying, and major technological and social shifts are impending worldwide. The MSc in Strategy, Organisation and Leadership prepares students to take on managerial responsibilities in volatile times through courses centred around case-based discussions of managerial challenges.

## TAKE LEARNING INTO YOUR OWN HANDS

The programme covers central managerial functions, including planning, organising, staffing, leading, and business controlling.

Students are expected to take responsibility for their learning, as the programme demands a high level of involvement. Give a lot, get a lot.

Aarhus BSS provides practical, process-oriented training, delivered with the most up-to-date teaching methods and technologies.

## PROGRAMME STRUCTURE

All the academic staff at Aarhus BSS pursue research and teaching responsibilities simultaneously, so students can expect a programme that is up-to-date with the latest research findings.

Aarhus BSS is also a global institution, so expect an international programme here. We attract researchers, teachers, and students from around the world, and we make the most of the interaction – socially, educationally, and professionally.

## SOCIAL AND ACADEMIC ACTIVITIES

Aarhus BSS hosts a rich and varied programme of activities for you as a student, both study-related and social. Our many student associations host events ranging from lectures and company events to career days and sports days, Friday bars, and celebrations, so there is plenty of scope for meeting and networking with like-minded people, discovering new areas of academic interest, and socialising with fellow students.

## CAREERS

Strategy, Organisation and Leadership graduates have found jobs as consultants in management consultancy firms, as system consultants in the IT sector, as development consultants and trainees in large corporations, human resource consultants, and management assistants. Some graduates have continued to PhD level. Because Aarhus BSS is an international faculty, you can expect to graduate with a wide range of business contacts and friends all over the world.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 10,000

## WWW

[masters.au.dk/strategyorganisationandleadership](https://masters.au.dk/strategyorganisationandleadership)

# MSC IN ECONOMICS AND BUSINESS ADMIN. – STRATEGY, ORGANISATION AND LEADERSHIP\*

LEARN TO LEAD IN TOMORROW'S BUSINESS WORLD

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Organisational Theory	Strategy	Electives at AU / Internship / AU Summer University / Study Abroad	THESIS
Strategic Leadership: Psychology and Practice	Organising and Leading Digitalisation		
Methods in Management and Organisation Research	Human Resource Management and Development		
	Organisational Change and Leadership		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

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Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 10,000

## WWW

[masters.au.dk/strategyorganisationandleadership](https://masters.au.dk/strategyorganisationandleadership)

# MASTER'S DEGREE PROGRAMMES

## PHYSICS, MATHEMATICS AND NANOSCIENCE

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AARHUS UNIVERSITY



# MSc IN ASTRONOMY\*

## INTERNATIONAL RESEARCH AND COLLABORATION



My work consists of administrative work and advisory assistance to the Danish government in relation to climatology and climate research. I assist in the role of contact person between Denmark and the UN's climate panel, the IPCC, and I participate in the Danish delegation at negotiations under the UN Convention on Climate Change and in the EU coordination of scientific topics during international climate negotiations. I have conducted research on topics related to the stratosphere and the ozone layer, while the research I did as a PhD student had to do with the Northern Lights and space research. In my work, I draw on my background as a scientist to a high degree, including my background in astronomy.

### TINA CHRISTENSEN

MSc and PhD in Astronomy  
R&D, Danish Meteorological Institute

Measurements flow in every day from satellites in space and from observatories all over the world. Students on the MSc in Astronomy programme are actively involved in research and in the discussion of new discoveries and theories. They study new planets orbiting other stars, examine the structure and development of the stars through seismological studies, and explore the earliest stages of the development of the universe, working with computer modelling or measurements from state-of-the-art telescopes and satellites.

### RESEARCH AND COLLABORATION

Teaching on the astronomy programme is greatly influenced by research, both in the courses and the thesis work, as the lecturers are active researchers. In this context, students benefit from the down-to-earth, informal relationship between the academic staff and students. Each student is associated with a group of researchers for their thesis work in year two, and there is wide scope for specialisation, both within the Department of Physics and Astronomy and (thanks to the department's close collaborations with other centres) with researchers from the European Southern Observatory, the European Space Agency, and NASA.

### SPECIALISATION

The MSc in Astronomy programme is open to students with a BSc degree in physics or another BSc degree in science with substantial physics and mathematics content. The programme is challenging and research-oriented, and reflects the interests of the private sector, research institutions, and the public sector. It is also flexible, and can accommodate the interests and profile of the individual student.

Students can specialise in (for example) helio- and asteroseismology, extra solar planet research, galactic structure, compact objects, or cosmology. The programme qualifies students for a career in research: students may apply for admission to the university's PhD programme either during the first year of the MSc programme or on completion of their thesis.

### STUDENT LIFE

The Department of Physics and Astronomy aims to create a good student environment both in terms of working methods and in the social environment and facilities. When you write your master's thesis in one of the department's research groups, you will be given your own desk in an office that you will share with other students.

The department also has many social and academic associations with their own festive traditions. They organise events like the "hat party," celebrating the most recent graduates. There is also the Physics Friday bar, where students get together at the end of the week to enjoy a drink and a catch-up.

### CAREERS

As a graduate of the MSc programme in astronomy, a wide range of career opportunities will be open to you. Our graduates work in a variety of positions in the private sector, e.g. as data scientists, as researcher, or as software developer. Astronomy graduates also work in public research institutions such as universities, the European Southern Observatory, or the European Space Agency.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/astronomy](http://masters.au.dk/astronomy)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN ASTRONOMY\*

## INTERNATIONAL RESEARCH AND COLLABORATION

### ADMISSION REQUIREMENTS

Students must have a bachelor of science degree, preferably in physics. Admission may be granted based on a BSc in another field provided this includes core courses in physics and astronomy totalling a minimum of 60 ECTS, as well as basic subject components in mathematics and statistics totalling at least 30 ECTS. Other qualifications may also give admission to the Master's programme, provided the university assesses their level, extent, and content as corresponding to the requirements stated above.

### SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of physics, astronomy, mathematics, and statistics.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/astronomy](https://masters.au.dk/astronomy)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN MATHEMATICS\*

## SPECIALISE IN AN AREA OF YOUR CHOICE



My Master's courses often included students from different year groups, so it was easy to connect with both older and younger students. In many of my courses we were only a handful of students, which meant we could work closely with the lecturers and experience their academic passion. The physical space was great too, with room for group work and the opportunity to get an office with your study group. The study environment was also very good, because the department became the natural base for most students – we spent time there mainly out of interest, not because we had to. It was a relaxed atmosphere, with room for everyone.

**THOMAS LUNDSGAARD SCHMIDT**

MSc in Mathematics

Quantitative Risk Manager, Siemens Gamesa Renewable Energy

Mathematics is a part of day-to-day life – of using your debit card and navigating by GPS, just as much as making calculations in physics or chemistry or working out the pot odds in an important hand of poker.

### RESEARCH AND SPECIALISATION

Teaching at the university is greatly influenced by the research conducted here, as the lecturers are active researchers. When students write their MSc thesis during the final year of the programme, they have excellent opportunities to become affiliated with a group of researchers, which allows them to participate in the group's research projects and scientific discussions. Students specialise in a subject within a broad area, including one of the three areas of mathematics in which Aarhus University is particularly strong: algebra, analysis, and geometry and topology.

### STUDENT LIFE

As a student in the programme, you are based at the Department of Mathematics, which has its own canteen, computer rooms, library, and study areas shared by students. As a master's student, you will be given your own desk in an office shared with other master's students. The department also has a number of student organisations such as Euler's Friends (Eulers Venner) and the Kalkulerbar (Friday bar) organising lectures on current maths topics, study excursions, and social functions.

### CAREERS

Graduates from the Department of Mathematics find work across a wide range of fields and institutions including finance, communication, and the wind-power industry in the private sector. Typically, previous graduates are working in universities and research institutions, in the pharmaceutical industry, the telecommunications and finance sectors, and in insurance companies.

Graduates who pursue academic careers at universities are often involved in interdisciplinary work with doctors, biologists or chemists, analysing large amounts of data, or teaching statistics to these professional groups. In the pharmaceutical industry, graduates plan clinical trials or design methods for examining whether new drugs have unwanted side effects. In the insurance industry, graduates typically work as actuaries and may contribute to working out tariffs. Common to all these jobs is the requirement for knowledge of a number of complicated mathematical models – something the MSc in Mathematics will equip you with.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/mathematics](http://masters.au.dk/mathematics)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500



# MSC IN MATHEMATICS\*

SPECIALISE IN AN AREA OF YOUR CHOICE

## ADMISSION REQUIREMENTS

A bachelor's degree amounting to at least 60 ECTS credits in mathematics can qualify the student for admission.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within abstract algebra, complex analysis, differential equations, elementary differential geometry/topology and measure and integration.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/mathematics](https://masters.au.dk/mathematics)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN MATHEMATICS-ECONOMICS\*

PREPARING YOU FOR A CAREER IN A NUMBER OF FIELDS



During my MSc studies I worked as a student teacher, so teaching comes naturally to me now. I've got used to being in front of a group and presenting material in a way that an audience can easily understand. It's been an enormous help in my present job. I also make great use of the academic skills I gained in my studies – an analytical way of thinking, a systematic working method, and the ability to solve problems.

**ANDERS HØJ SØRENSEN**

MSc in Mathematics-Economics  
Consultant, Trapeze Group Europe

Have you thought about how rates for a new mortgage loan should be fixed – with an interest-rate ceiling or as interest-only loans? In fact, it was mathematics-economics graduates who developed the model used for fixing the cost of such loans. All major companies face complex problems, and many turn to a mathematics-economist to solve them.

Mathematics-economists are experts in designing optimisation strategies, something that requires great theoretical insight into both economics and mathematics. As a student of mathematics-economics, you have the option of specialising in a subject within a broad area, including one of the areas in which Aarhus University is particularly strong: mathematical finance, economics, and operations research.

## BUILD YOUR OWN STUDY PROGRAMME

The MSc in Mathematics-Economics is taught at the Department of Mathematics and the Department of Economics and Business. Students specialise through course activities and projects and through a thesis. Students structure their own individual study programme in consultation with a lecturer. The programme is designed on the basis of each individual student's academic qualifications, interests, and subjects studied at BSc level. Read more about the different tracks over the page.

## STUDENT LIFE

As a student on the programme, you are based at the Department of Mathematics and at the Department of Economics and Business Economics. You therefore get to benefit from the facilities of both departments.

The Department of Mathematics has its own canteen, computer rooms, library, and study areas shared by students. As a master's student, you will be given your own desk in an office shared with other master's students. The department also has a number of student organisations such as Euler's Friends, the Kalkulerbar or Friday bar, and the mathematics-economists association (the MØF) through which academic activities, study trips, and social functions are organised.

The Department of Economics and Business Economics has nearly six hundred study spaces, a large canteen, and state-of-the-art high-tech facilities to meet students' needs.

## CAREERS

Job prospects for Mathematics-Economics graduates are extremely positive, and career opportunities are many. A large proportion of our graduates find work in the private sector. Banks and insurance companies are the major workplaces, with many graduates working as problem-solvers in consultancy and telecommunications companies. Planning departments in large industrial or manufacturing companies are also a relevant job market.



### PLACE OF STUDY

Aarhus

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

### WWW

[masters.au.dk/mathematicseconomics](http://masters.au.dk/mathematicseconomics)

# MSC IN MATHEMATICS–ECONOMICS\*

PREPARING YOU FOR A CAREER IN A NUMBER OF FIELDS

## PROGRAMME STRUCTURE

The topics covered in the study programme depend on the track chosen by the student. There are three tracks on the programme: Economics, Mathematical Finance, and Operations Research.

Typical courses in Economics are:

- (Advanced) Microeconomics
- (Advanced) Macroeconomics
- Economics of the Labour Market
- Economics of the Welfare State
- Econometrics

Courses in Mathematical Finance are:

- Hedging and Pricing of Derivatives
- Credit Risk
- Fixed Income Analysis
- Stochastic Processes
- Advanced Financial Econometrics

Courses in Operations Research are:

- Mixed-Integer Optimisation
- Advanced Convex Optimisation
- Multi-Criteria Optimisation
- Metaheuristics for Combinatorial Optimisation
- Markov Decision Theory
- Simulation, Modelling and Analysis

## ADMISSION REQUIREMENTS

A bachelor's degree amounting to at least 60 ECTS credits in Mathematics–Economics can qualify the student for admission. Other qualifications can also provide admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of mathematics (linear algebra, mathematical analysis, measure and integration theory), probability theory and statistics, finance, operational research (linear and convex optimisation), and economics (microeconomics, macroeconomics, cost accounting).



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

## WWW

[masters.au.dk/mathematicseconomics](https://masters.au.dk/mathematicseconomics)

# MSC IN NANOSCIENCE\*

PRACTICAL AND RESEARCH-ORIENTED STUDY IN AN INTERNATIONAL ENVIRONMENT

➤ I strongly recommend anyone interested in any field of nanotechnology to study at iNANO. It is a new institute with first-rate facilities and excellent professionals, and it offers a range of courses for students to specialise in their area of interest. I am currently doing my Master's thesis experiments at the hybrid materials lab, and it has been an amazing experience. The labs are well equipped and the projects are interconnected, so the students can support each other.

## FABIANE FANTINELLI FRANCO

Student, MSc in Nanoscience, from Brazil

➤ The flexibility students have to design their individual customised study programme was a very positive surprise, and the informal academic environment lets students actively engage with teachers and vastly improve their understanding of the topic as a result. A science-based Innovation and Entrepreneurship course encouraged Fabiane and me to embark on an entrepreneurial venture – NanoScreen – and we have taken part in international start-up competitions.

## PRIYANK SHYAM

Student, MSc in Nanoscience, from India



Nanoscience is an interdisciplinary field within the natural sciences. It deals with understanding and utilising materials and phenomena at the nanoscale – that is, between 0.1 and 100 nanometres. The ability to work on this scale makes it possible to develop highly improved or completely new functions and properties in a wide range of materials.

The MSc in Nanoscience programme at Aarhus University is relevant for students with a BSc degree from a Danish or international university in either nanoscience or an interdisciplinary combination of physics, chemistry, and molecular biology. The Nanoscience degree programme is both practical and research-oriented. Students can complete an MSc project in a number of areas, including nanomaterials, interfaces and catalysis, nano-medicine, synthetic biology, and nano-food.

## PROGRAMME STRUCTURE

The MSc programme consists of 120 ECTS credits. Students study subjects within the fields of physics, chemistry, and molecular biology, as well as specific nanoscience subjects. Based on their previous academic specialisation, students choose their courses and the subject of their

MSc project so as to specialise in one of four areas: nanomaterials, biomedical nanotechnology, structural biology and biophysics, or organic nanochemistry/soft matter. Students are offered guidance in selecting their individual course programmes from a suite of master's courses offered by iNANO and the relevant departments. The degree programme concludes with the Master's project.

## INTERDISCIPLINARY iNANO

The Nanoscience degree programme at Aarhus University is based at the Interdisciplinary Nanoscience Centre, iNANO. iNANO is staffed by its own researchers as well as researchers drawn from the departments of Physics, Chemistry, Molecular Biology, and Genetics as well as researchers from other departments and the Faculty of Health. The centre's mission is to build on three basic pillars: top-level international research, education at all levels from BSc to PhD, and innovation and interaction with industry and society at large.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/nanoscience](https://masters.au.dk/nanoscience)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN NANOSCIENCE\*

PRACTICAL AND RESEARCH-ORIENTED STUDY IN AN INTERNATIONAL ENVIRONMENT

## CAREERS

As a graduate in Nanoscience, you will be qualified to work in R&D in both public and private sectors in medicine, the environment, biotechnology, and the IT and communication industries. A number of R&D projects are currently under way at iNANO, in collaboration with approximately a hundred Danish and international companies, including Novo Nordisk, Aalborg Portland, Arla Foods, Danfoss, Grundfos, Haldor Topsøe, Lundbeck, Unisense, Carlsberg, Dupont and Novozymes. The iNANO School – part of the iNANO Centre – comprises both an international graduate school and associated research groups in physics, chemistry, biology, and molecular biology, working in the field of nanoscience and nanotechnology. iNANO promotes excellent science and provides an academic environment for PhD students of the highest calibre, and many graduates of the programme go on to do a PhD.

## ADMISSION REQUIREMENTS

A bachelor's degree amounting to at least 60 ECTS credits in Nanoscience can qualify the student for admission.

Other qualifications can also provide admission to the Master's degree programme, provided the university assesses that their level, extent and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include dedicated nanoscience courses as well as relevant courses within the subject areas of chemistry, physics, molecular biology, and mathematics.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/nanoscience](http://masters.au.dk/nanoscience)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN PHYSICS\*

A RESEARCH-INTENSIVE DEGREE WITH SCOPE FOR COLLABORATION

You adjust the lasers in the lab before going to your next lecture on cold atoms. You feed your computer the latest measurements from the scanning tunnelling microscope, and see if the placement of the extra atoms on the surface matches your model calculation. You do some work on your model for a quantum computer before going to the next lecture in quantum optics. Or you might be at CERN this week, running experiments with anti-protons to test new possibilities for radiation therapy, or predicting the fate of ultra-relativistic lead ions in the Large Hadron Collider.

Students on the MSc programme in Physics are actively involved in research and in the discussion of new discoveries and theories. The curriculum is tailored to the interests and intended profile of the individual.

## FOCUS ON RESEARCH

Teaching on the MSc Physics programme is greatly influenced by the fact that the lecturers are active researchers. In this context, students benefit from the down-to-earth, informal relationship between the academic staff and students. When students write their thesis, they are connected with a group of researchers and become involved in one or more of the group's research projects.

Students on the programme have a wide range of options for specialisation, both in the Department of Physics and Astronomy and via the department's close collaboration with AU's other centres, the Institute for Storage Ring Facilities (ISA) and the Interdisciplinary Nanoscience Centre (iNANO). The department also has research groups working at several institutions outside Denmark, including a number of the major European laboratories.

## SPECIALISATION

The MSc in Physics programme is open to students with a BSc degree in physics or another BSc degree in science with substantial physics and mathematics content. The programme is challenging and research-oriented and reflects the interests of private-sector companies, research institutions, and the public sector. It is also flexible and can accommodate the interests and strengths of the individual student.

Students can specialise within (for example) atomic and molecular physics, solid-state physics, subatomic physics, or astrophysics. The programme also qualifies students for a career in research: students may apply for admission to the university's PhD programme either during the MSc degree programme or on completion of the thesis.



One of the advantages of studying Physics at Aarhus University is that there are so many electives on offer. That means you can choose electives to suit your interests and fit with your career plans. For me, that meant deciding at the beginning of my Master's to choose as many electives as I could in areas of physics that are relevant to industry – courses on materials physics and laser physics, for example – and also to specialise in experimental physics.

### MADS WRAA HYTTTEL

MSc in Physics

Industrial PhD project, FLSmidth



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/physics](https://masters.au.dk/physics)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSc IN PHYSICS\*

A RESEARCH-INTENSIVE DEGREE WITH SCOPE FOR COLLABORATION

## STUDENT LIFE

The Department of Physics and Astronomy aims to create a good student environment both in terms of working methods and social environment and facilities. When you write your master's thesis in one of the department's research groups, you will be given your own desk in an office shared with other students.

The department also has many social and academic associations with their own festive traditions. They organise events like the "hat party," celebrating the most recent graduates. There is also the Physics Friday bar, where students get together at the end of the week to enjoy a drink and a catch-up.

## CAREERS

Graduates from the MSc Physics programme have a wide range of career opportunities. A number of graduates are working in the private sector in areas such as modern optics, materials physics, or surface physics. Large IT companies, patent agencies, and the financial sector are increasingly hiring one or more physicists on their staff. The number of graduates working in hospitals as physicists has also dramatically increased, with most of these working in radiation physics and radiation therapy. Some of our recent graduates are in research positions at universities or at public research institutions.

## ADMISSION REQUIREMENTS

Students must have a bachelor of science degree, preferably in physics. Admission may be granted based on a BSc in another field provided it includes core courses in physics and astronomy totalling a minimum of 60 ECTS, as well as basic subject components in mathematics and statistics totalling at least 30 ECTS. Other qualifications may also give admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the requirements mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of physics, astronomy, mathematics, and statistics.



### PLACE OF STUDY

Aarhus

### WWW

masters.au.dk/physics

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500



# MSC IN SCIENCE STUDIES\*

EXPLORING THE NATURAL SCIENCES AND THEIR RELATIONS WITH SOCIETY AND CONTEMPORARY CULTURE



◀ I enjoyed the study environment at Science Studies. It was a small department with a close relationship between students and the academic staff. There was an international perspective, and you could often attend lectures by high-profile researchers, from Denmark and abroad. Now I work as head of development at House of Natural Sciences. I'm responsible for our development projects, which are for primary, lower-secondary and upper-secondary schools. The aim is to inspire more young people to choose an education in science and technology. When I'm in contact with different companies, working with anything from steel production to wound care, I draw on my general scientific understanding. But I also work strategically on developing new projects and fundraising, and there I use my understanding of science and technology's impact on society that I got from my studies at Science Studies.

**MAIKEN LYKKE LOLCK**

MSc in Physics and Science Studies  
Development Manager, House of Natural Sciences

Science and technology form part of our day-to-day lives, wherever we are. We constantly have to make decisions that draw on scientific and technological knowledge. The MSc in Science Studies provides you with insight into how science works and how scientific discoveries and knowledge have affected our lives and our societies. You will learn to place scientific knowledge within historical, philosophical, and social perspectives. You will also gain a multi-faceted perspective on the many challenges and opportunities that science provides.

## SCIENCE, CULTURE AND SOCIETY

The MSc in Science Studies is open to students with a science bachelor's degree who are seeking a wider perspective on how the natural sciences have developed in their interaction with society and contemporary culture. The programme includes the following themes building on the bachelor's science background – history and philosophy of science; science, technology, and innovation; science and society; and science and communication.

Students in the programme will learn to understand the social and philosophical implications of science, the forces that drive technological change, and contemporary developments within research and within the public understanding of science. Knowledge of the development of science and the ability to analyse science in a cultural and societal context can be useful in many different situations. Graduates may seek to be communicators, presenting the challenges and opportunities that science represents through the media. This knowledge of the interaction between natural sciences, technology and society is relevant in public administration, in business and industry, and in many kinds of organisation.

## STUDENT LIFE

The Centre for Science Studies has excellent study facilities, including the new shared library for science studies and many natural science programmes. It is notable particularly for its extensive collection of books and journals in the science studies field. The centre is small, which means that students work in close collaboration with the academic staff, and it has gained a reputation for a lively social life. Researchers and students interact on a daily basis, get together for bi-weekly colloquia, and meet up every Tuesday in an informal setting for coffee and cake.

## CAREERS

Science Studies graduates will have a sound understanding of the social and philosophical implications of science, the forces that drive technological change, and contemporary developments within research and the public understanding of science. Thus equipped, graduates can seek a career communicating science and its challenges and opportunities to the general public through the media. They can also use their knowledge of the interaction between the natural sciences, technology, and society in public administration, business and industry, and in many different organisations.

Previous graduates are working as project managers and communication officers in private companies and public organisations, civil servants in public administration, teachers in the Danish high schools, and science writers and editors.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/sciencestudies](http://masters.au.dk/sciencestudies)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN SCIENCE STUDIES\*

EXPLORING THE NATURAL SCIENCES AND THEIR RELATIONS WITH SOCIETY AND CONTEMPORARY CULTURE

## ADMISSION REQUIREMENTS

A bachelor of science degree from a Danish university or international equivalent, or a bachelor's degree including at least 60 ECTS credits in science studies, can qualify students for admission. Other qualifications can also provide admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the history and philosophy of science and technology, science communication, and related areas.

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## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/sciencestudies](https://masters.au.dk/sciencestudies)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSc IN STATISTICS\*

## INSIGHT INTO ADVANCED MATHEMATICAL MODELS

The MSc degree in Statistics is a flexible programme that builds general competencies in statistics while allowing students to specialise in the particular branch of statistics of their choice, such as one of the areas in which Aarhus University is particularly strong – theoretical and applied statistics, and probability theory.

### STATISTICIANS IN DEMAND

Teaching on the programme is greatly influenced by research, as the lecturers are active researchers. In addition to lectures, instruction includes theoretical and practical exercises.

The Statistics programme at Aarhus University is characterised by a strong focus on theoretical aspects. Incoming students are required to have a strong background in advanced probability theory based on measure and integration theory.

### STUDENT LIFE

Students in the programme are based at the Department of Mathematics, which has its own canteen, computer rooms, library, and study areas shared by students. As a master's student, you will receive your own desk in an office shared with other master's students. The department also has a number of student organisations such as Euler's Friends and the Kalkulerbar or Friday bar, through which academic activities, study trips, and social functions are organised.

### CAREERS

There is an undersupply of statisticians. Statistics graduates from Aarhus University are very much in demand, and their employment prospects are extremely good, whether in Aarhus, other major Danish cities, or overseas.

Recent statistics graduates have taken up careers in universities and research institutions, in the pharmaceutical industry, in the telecommunications and finance sectors, and in insurance companies. In universities, statistics graduates frequently work with doctors, biologists, or chemists in an interdisciplinary setting analysing large amounts of data, while others teach statistics. Within the pharmaceutical industry, statisticians plan clinical trials or design methods to test new drugs for unwanted side effects. In insurance, statistics graduates often work as actuaries, for instance contributing to working out tariffs.

Common to all these careers is that they require knowledge of a number of advanced mathematical models, and that is what the MSc in Statistics will equip you with.

Graduates can also apply to enter the PhD programme.



◀ I very soon decided I wanted to work in a company and use what I had learned at university. I considered both the pharmaceutical industry and insurance. It was a company visit to Novo Nordisk that helped me make up my mind to choose the pharmaceutical industry. I work in R&D as a statistician and am involved in clinical trials of new drugs.

#### TRINE SAUGSTRUP

MSc in Statistics  
Statistician, Novo Nordisk



#### PLACE OF STUDY

Aarhus

#### WWW

masters.au.dk/statistics

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN STATISTICS\*

## INSIGHT INTO ADVANCED MATHEMATICAL MODELS

### ADMISSION REQUIREMENTS

A bachelor's degree amounting to at least 60 ECTS credits in statistics can qualify the student for admission. Other qualifications can also provide admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the degrees mentioned above.

The Statistics programme at the University of Aarhus is characterised by a strong focus on theoretical aspects, and incoming students are required to have a strong background in advanced probability theory based on measure and integration theory.

### SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of statistics and probability theory.



#### PLACE OF STUDY

Aarhus

#### WWW

[masters.au.dk/statistics](https://masters.au.dk/statistics)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MASTER'S DEGREE PROGRAMMES

## BIOLOGY, CHEMISTRY AND NATURE

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AARHUS UNIVERSITY



# MSC IN AGROBIOLOGY\*

## FOOD PRODUCTION IN A CHALLENGING FUTURE

➤ The Agrobiology MSc lets you fine-tune your study programme through the electives you choose. This means that each newly qualified agrobiologist has a unique study profile, and I think this puts you in a very strong position in the labour market. My study programme gave me a specific theoretical knowledge of livestock and crop production, which is a solid foundation for the skills I use in my current job.

### LASSE PRIMDAL OLSEN

MSc in Agrobiology  
Crop Consultant, LandboNord



Developing solutions for healthy food production while decreasing environmental impact and increasing animal welfare is the main focus in the Agrobiology programme at Aarhus University. Topics of study are genetics, biotechnology, production systems, and the interaction of agriculture with nature, among others. The programme is broadly science-based with a focus on applicability and problem-solving, and takes an integrative approach to learning about the biology behind food production.

### A CROSS-SECTORAL APPROACH

The core of this programme is biology, with perspectives on sustainability, environmental impact, animal health and welfare, plant health, and product quality. Students can choose between specialisations including animal nutrition, plant nutrition, animal health and welfare, plant health, and pest management, or combine animal and plant sciences. Because this is a cross-disciplinary master's, students can also choose courses from other academic programmes.

Students will learn analytical and problem-solving skills, how to do research, and how to generate new knowledge. In this programme emphasis is placed as much on the academic and professional skills as on the applied skills.

### AN INTERNATIONAL LEARNING ENVIRONMENT

International students make up roughly one-third of each class, providing students with international knowledge and perspectives and the possibility to learn about different environments – both academic

and agricultural. Because agriculture industries and environmental impacts are international, it is natural to include different national perspectives in discussions about these topics.

Denmark is an ideal place to study agriculture because of its huge food production industry, extensive agricultural research, and strict environmental regulations. International students gain the chance to learn from leaders in sustainable food production, and Danish students can learn about conditions outside Denmark.

### A WORLD RESEARCH LEADER

Aarhus University's research in agricultural sciences is cutting-edge and puts it in the front rank of agricultural science institutions worldwide. The core areas of research are: climate and natural resources, environment and bioenergy, organic farming, food quality, farm animal production, and plant production.

Sustainability is a fundamental principle. The goal is to seek solutions that contribute to environmentally and economically sustainable development of the agricultural and food industries.

### CAREERS

Most students who complete this programme find employment in the private sector as advisers or in R&D. Other career possibilities include feed or supply, developing new plants, plant protection, teaching, and working with authorities to develop or enforce industry regulations.



#### PLACE OF STUDY

Aarhus

#### WWW

[masters.au.dk/agrobiology](https://masters.au.dk/agrobiology)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500



# MSC IN AGROBIOLOGY\*

## FOOD PRODUCTION IN A CHALLENGING FUTURE

### ADMISSION REQUIREMENTS

Students must have a bachelor's degree in life science such as plant, animal, or veterinary science. Preference is given to those with an agriculture background. A basic knowledge of biochemistry, statistics, genetics, evolution, or animal nutrition is also beneficial for this programme.

### SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of agrobiology, chemistry, biochemistry, cytology, zoology, botany, mathematics, statistics, and probability calculus. The programme attracts students who like applied sciences, have an interest in farming and agriculture, and want to make a difference.

### IN THE RANKINGS

Agricultural sciences by subject at Aarhus University rank twenty-second in the world in the 2020 *US News Best Global Universities* ranking, and in the 2019 National Taiwan University ranking are nineteenth in Agricultural Sciences by subject. Agriculture and Forestry at AU is ranked thirty-fifth in the 2020 *QS World University Rankings by subject*.



#### PLACE OF STUDY

Aarhus

#### WWW

[masters.au.dk/agrobiology](https://masters.au.dk/agrobiology)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN AGRO-ENVIRONMENTAL MANAGEMENT\*

## DEVELOPING SUSTAINABLE AGROECOSYSTEMS



◀ I choose the Agro-Environmental Management programme because I wanted a holistic view of our food and agriculture systems. I wanted to learn from a Danish and an international perspective. On the programme I acquired a strong foundation in agronomy, environmental conservation, climate change, and policy regulation, all in connection with agriculture and rural land development. Not only did I use these topics in my thesis, but they are the skills and knowledge I will apply and build upon in a future career or a PhD.

**RACHEL FREI**

MSc in Agro-Environmental Management, from the United States

Students in the Agro-Environmental Management programme are out to change the world. Rather than just making minor changes to existing production systems, our students are out to rethink the entire production cycle by optimising production goals as well as environmental targets. They seek to develop sustainable pathways for every level of food production, to use new technologies to comply with increased regulation, and to eliminate waste from the entire production cycle. This approach is not about maximising production – it's about balancing production with environmental concerns.

Courses provide a strong theoretical background in subjects such as carbon and nutrient cycling and the agro-environmental management at farm and landscape scale. In the second year, students will have the opportunity to apply this knowledge in their thesis project.

### AN IDEAL LEARNING ENVIRONMENT

Denmark, a country that produces three times as much food as it consumes, is an ideal location for studying agricultural systems. Its agricultural history and long-standing strict environmental regulations mean that students have many practical examples and a large existing body of research to draw from. Aarhus University is alone in offering this specific degree.

The programme looks at topics such as carbon cycling and climate change; nutrient cycling and environmental management; environmental effects of various types of production; soil ecosystem services; xenobiotics; use of natural resources; geographic information systems; environmental legislation and regulation; and nature restoration.

These topics are of global relevance. Combined with the considerable Danish expertise and experience in this area, this means that the degree programme attracts students from all over the world. We therefore guarantee that, as a student on the Agro-Environmental Management

MSc programme, you will be challenged and stimulated at both the scientific and social levels. In the course of the programme, each student will be connected with relevant research groups in connection with project work or their thesis.

A mixture of Danish and international students provides an optimal environment for peer-to-peer learning. Danes can share their experience of working in a highly regulated industry with strong environmental protections, and international students can bring both problems and solutions from their home countries to the discussions, an opportunity that will prepare all students to work in a globalised world.

### INTERNATIONAL MASTER OF SCIENCE IN SOILS & GLOBAL CHANGE

From 2020, some of the courses will be organised in collaboration with the International Master of Science in Soils and Global Change (IMSOGLO), a European Erasmus Mundus programme. The Master's programme is a collaboration between Aarhus University and three other European universities. It covers the interactions of soils with global change, both in terms of changing climate and changing land use. More information can be found here: [www.masters.au.dk/soilsandglobalchange](http://www.masters.au.dk/soilsandglobalchange).

### CAREERS

Graduates of this programme go on to work in advisory services, for city or regional administration, private companies, or NGOs. They may also find careers at the UN or work in independent consulting, offering assessment services. Students who do their thesis in the context of a specific company are often offered a job there. Many students go on to study for a PhD.



#### PLACE OF STUDY

Aarhus

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

#### WWW

[masters.au.dk/agroenvironmentalmanagement](http://masters.au.dk/agroenvironmentalmanagement)

# MSC IN AGRO-ENVIRONMENTAL MANAGEMENT\*

## DEVELOPING SUSTAINABLE AGROECOSYSTEMS

### ADMISSION REQUIREMENTS

Students should have a strong bachelor's in agriculture, biology, geography, economy, environmental science, or a similar discipline.

### SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of agro-environmental management, mathematics, statistics, and probability theory.

### A WORLD RESEARCH LEADER

Aarhus University's research in agricultural sciences is cutting-edge and puts it in the front rank of agricultural science institutions worldwide. The core areas of research are: climate and natural resources, environment and bioenergy, organic farming, food quality, farm animal production, and plant production.

Sustainability is a fundamental principle. The goal is to seek solutions that contribute to environmentally and economically sustainable development of the agricultural and food industries.

### IN THE RANKINGS

Agricultural sciences by subject at Aarhus University rank twenty-second in the world in the 2020 *US News Best Global Universities* ranking, and in the 2019 National Taiwan University ranking are nineteenth in Agricultural Sciences by subject. Agriculture and Forestry at AU is ranked thirty-fifth in the 2020 *QS World University Rankings by subject*.



### PLACE OF STUDY

Aarhus

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

### WWW

[masters.au.dk/agroenvironmentalmanagement](https://masters.au.dk/agroenvironmentalmanagement)

# MSC IN BIODIVERSITY ECOLOGY AND EVOLUTION\*


## INTERNATIONAL BIOLOGY DOUBLE DEGREE

The International Master's in Biodiversity Ecology and Evolution – IMABEE – is a two-year research-oriented master's programme for talented and motivated students who want to understand and work in the field of biodiversity, ecology, and evolution. This is a joint programme between four European universities: the University of Rennes 1 in France, Vrije Universiteit Amsterdam in the Netherlands, the University of Göttingen in Germany, and Aarhus University in Denmark. On completion of the programme, students are awarded a double degree from the two partner universities selected.

### BUILD YOUR OWN STUDY PLAN

IMABEE offers students the opportunity to compose an individual study programme in biodiversity, ecology, and evolution by combining elements from complementary programmes at the two selected partner universities. Students spend their first year at their home university, then the second year at their chosen host university among the four partners.



 I think this experience is unique. Going abroad to study really helps you to grow, and the Master's thesis prepares you for real work in the future. I recommend this programme because it is so rewarding, both for your work experience and your CV. When you graduate, you get two diplomas – one from your home university and one from your host university. I graduated from University of Rennes 1 and Aarhus University.

**ELOÏSE DUVAL**

MSc in Biodiversity Ecology and Evolution, from France

The Master's programme is built upon existing master's tracks within each partner university and involves three stages: a starting track during semesters one and two, advanced teaching modules in semester three, and a Master's thesis project in semester four.

### STUDENT LIFE

As a student in the Master's programme at Aarhus University, you will have close contact with your lecturers, who are conducting their own research and working with the latest knowledge in their field. This gives you the opportunity to work with research groups and in an international research environment.

The Department of Bioscience, in which IMABEE is located, has a great student environment with both academic and social activities. The department has its own student-run newsletter, as well as a student committee that keeps students informed about departmental activities. Student organisations in the department organise academic activities, excursions, celebrations, and social events.

### CAREERS

The IMABEE Master's provides students with an advanced understanding of biodiversity, ecology, and evolution by applying a multidisciplinary approach. Over and above general competence in academic approach and skills, graduates of the IMABEE Master's will acquire specific competencies and knowledge in the following areas: the main theories, concepts, and tools of scientific ecology, biodiversity, and evolution; methods of statistical analysis; modelling; molecular tools; sampling protocols; experimental techniques in situ or in the lab; field and lab observations; and long-term monitoring.

This international master's degree is designed to prepare graduates for the research activities carried out by researchers, engineers, and R&D managers, but it also offers the possibility of pursuing other careers such as ecological consulting or working in government institutions or local or regional public administration.

Graduates will be able to work in the fields of R&D, patents, technological monitoring, advice and expertise in public and/or private research structures, and also within a range of national and international institutions. IMABEE graduates will also be trained to efficiently start and handle a PhD project.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/biology/#c2437217](https://masters.au.dk/biology/#c2437217)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN BIODIVERSITY ECOLOGY AND EVOLUTION\*

## INTERNATIONAL BIOLOGY DOUBLE DEGREE

### ADMISSION REQUIREMENTS

Graduates with a high-profile bachelor's degree (180 ECTS or three years or equivalent) in biodiversity, ecology or evolution with outstanding study results and an above-average GPA are eligible for admission to the IMABEE programme. A bachelor of science in biology from Aarhus University, the University of Southern Denmark, or the University of Copenhagen will qualify students for admission; a bachelor of science with subject components in biology equalling 60 ECTS credits and basic subject components in mathematics, chemistry, and statistics may also qualify students for admission. Other qualifications are subject to the university's assessment that they are equivalent in level, extent, and content to the degrees named above.

English is the language of instruction in all subjects, and all applicants are therefore required to provide evidence of their English-language proficiency.

### SELECTION CRITERIA

There are a limited number of places on the programme. Applicants will therefore be assessed on the basis of their study results in subjects relevant to biodiversity, ecology, and evolution, as well as the motivation letter for acceptance into the programme.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/biology/#c2437217](https://masters.au.dk/biology/#c2437217)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN BIOINFORMATICS\*

## COMPUTATIONAL SOLUTIONS FOR BIOLOGICAL AND BIOMEDICAL PROBLEMS



Our student backgrounds are very diverse, ranging from computer science to biology and molecular biology – so our interests and projects cover different fields of bioinformatics. This is a great strength, because it means we can discuss questions and work together across our different academic competences. My main interest is in how new, faster, cheaper ways to examine biological data can be combined with effective data-processing to lay the foundation for future medical treatment and diagnostics. I would like to use my experience in bioinformatics to contribute to making these new possibilities available to the healthcare sector as fast as possible.

### SIMON GRUND SØRENSEN

BSc Molecular Medicine  
Student, MSc Bioinformatics

A fusion of biology, statistics, and computer science, the MSc in Bioinformatics programme explores the development and application of computational solutions for analysing and handling biological and biomedical data. A successful bioinformatics solution combines theoretical and practical knowledge from several areas of science, including biology, statistics, and computer science – a network of competencies that students will acquire through this programme.

### FINDING SOLUTIONS

The field of bioinformatics plays a key role in modern biology and biomedicine, fields in which collecting and analysing large data sets is essential. To address the challenges of big data in modern biology and biomedicine, a bioinformatician must combine practical and theoretical skills in statistical modelling and computer programming with a deep knowledge of biology and biomedicine. This programme gives students these skill-sets.

Teaching is greatly influenced by the innovative bioinformatics research taking place at Aarhus University, where all lecturers are also active researchers. AU has strong research groups within many areas of bioinformatics, including evolutionary bioinformatics (the study of how and in what way genomes or hereditary material in organisms develop over the course of time) and medical bioinformatics (the study of the correlations between diseases and genetic factors).

The bioinformatics programme at AU is based at the Bioinformatics Research Centre (BiRC), which focuses on the challenges involved in large-scale genomics and population genetics, including statistical modelling, algorithmic development, machine learning, and high-performance computing.

### STUDENT LIFE

Bioinformatics students are affiliated with the Bioinformatics Research Centre, a vibrant community with lots of regular academic and social activities for both students and staff. Students meet their peers from the other AU science programmes through joint lectures, and participate in activities with students from programmes such as biology or computer science. A number of student organisations also arrange academic activities, as well as excursions, celebrations, and social get-togethers.

### CAREERS

Graduates with a Master's in Bioinformatics are equipped not only to work as bioinformatics specialists in the biotechnology industry, but also in additional areas in which computational skills in analysing large amounts of data are essential. They are also in demand among employers in the IT industry as potential software developers.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/bioinformatics](https://masters.au.dk/bioinformatics)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN BIOINFORMATICS\*

## COMPUTATIONAL SOLUTIONS FOR BIOLOGICAL AND BIOMEDICAL PROBLEMS

### ADMISSION REQUIREMENTS

Students are qualified to apply if their bachelor's degree contains 20 ECTS within the fields of mathematics, probability theory, and statistics, 20 ECTS within either programming and algorithmics or molecular biology and genetics, and an additional 60 ECTS within one of the above topics.

### SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of mathematics, probability theory, and statistics, programming and algorithmics, and molecular biology and genetics.

### PROGRAMME STRUCTURE

With a combination of two specialisations, elective courses, and projects, there are many ways to structure your Bioinformatics Master's programme. All students must write a thesis (30 ECTS) and a 10 ECTS project. All students must also follow a mandatory course in either computational thinking or molecular evolution depending on their background. The mandatory course can be part of a specialisation, which makes it possible to have one more elective courses. The 10 ECTS project can be scheduled in any semester, which makes it possible to study abroad during the third semester.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Specialisation 1		Elective Courses	THESIS
Specialisation 2		Elective Courses	
Mandatory Course	Elective Course	Project	
30 ECTS	30 ECTS	30 ECTS	30 ECTS

### SPECIALISATIONS

- Algorithms and Programming
- Machine Learning and Data Science
- Molecular Evolution and Genomics



### PLACE OF STUDY

Aarhus

### WWW

masters.au.dk/bioinformatics

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500



# MSC IN BIOLOGY\*

FROM LAB TO FIELD – A CRITICAL, COLLABORATIVE AND HANDS-ON EXPLORATION OF LIFE

The Master's programme in Biology will strengthen your analytical skills and challenge and develop both your critical and creative way of thinking. Enhancing the fundamental biological knowledge gained in your bachelor's degree, you will experience many combinations of theory, observation, and experimental research during the Master's programme, which consists of laboratory work, field excursions, lectures, and seminars.

## BUILD YOUR OWN STUDY PLAN

On commencing the programme, you compose your own individual study plan in collaboration with a lecturer. The considerable freedom of choice offered is an excellent opportunity for in-depth study in one of the many disciplines within biology – genetics, evolution and ecology, ecophysiology, aquatic biology, microbiology, or ecosystem function and management.

Depending on which specialisation you choose, you will get the opportunity to work on field stations in Denmark and in the Arctic region and on Aarhus University's research vessel, *Aurora*.

## STUDENT LIFE

During your time as a student in the Master's programme in Biology you will have close contact with the lecturers, who are conducting research and working with the latest knowledge within their academic field.

This gives you the opportunity to work with research groups and in an international research environment.

The Department of Bioscience has a great student environment. The focal point for many extra-curricular activities at biology is the "House of Biology," with a lounge, a study hall, and meeting rooms where students gather for both academic and social activities.

The department has its own student-run newsletter as well as a student committee that keeps students informed about departmental activities. Several student organisations in the department organise academic activities, excursions, celebrations, and social events.

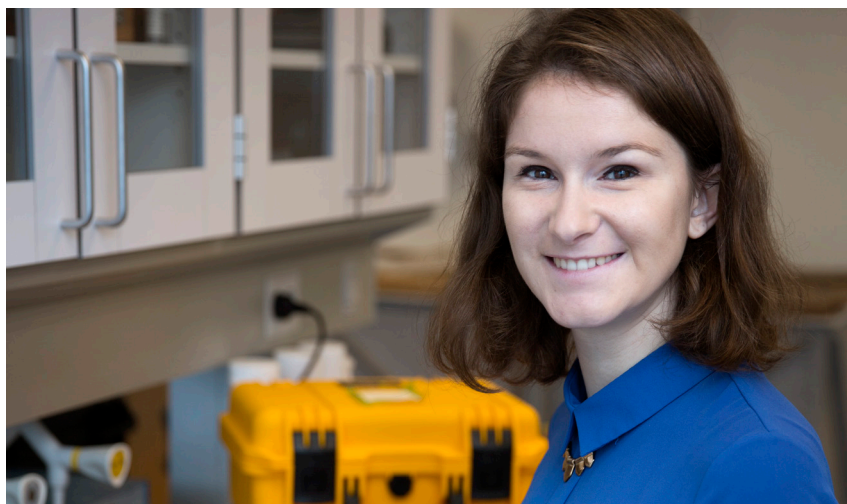
## CAREERS

Aarhus University prepares biology graduates for the regional, national, and international job markets. Graduates in biology find work across a wide range of fields and institutions: mostly within teaching, administration, and consultancy, but also in research and communication in both private and public sectors. Biologists work across many fields, ranging from biotechnology, nature, and the environment to biological production within agriculture and the fishing industry. Many work as consultants or environmental officers in the field of environmental administration and management. Some biology graduates have found work in the media and publishing world, or as nature consultants.

➤ The lab I study in here is world-class in marine bioacoustics. In my previous studies I followed the researchers' work, so it is almost surreal to get to work directly with researchers. I have worked in a number of bioacoustics labs, but the one here at Aarhus University is definitely among the best. The quality and amount of equipment are pretty incredible, and it's clear that this is a very productive research environment with exciting projects going on in every lab. There is an emphasis on real-life application, so any lab exercises in my classes demonstrate valuable theories from our curriculum, and my independent projects are attempts at actual contributions to my field.

### ELLEN ROSE JACOBS

Student, MSc in Biology, from the United States



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/biology](https://masters.au.dk/biology)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN BIOLOGY\*

FROM LAB TO FIELD – A CRITICAL, COLLABORATIVE AND HANDS-ON EXPLORATION OF LIFE

## ADMISSION REQUIREMENTS

Students must have a bachelor of science degree with subject components in biology equalling 60 ECTS credits, as well as basic subject components in mathematics, chemistry, and statistics. Other qualifications can also provide admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include modules from the natural sciences including life sciences, mathematics, chemistry, and statistics.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/biology](https://masters.au.dk/biology)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN BIOTECHNOLOGY AND CHEMICAL ENGINEERING \*

DEVELOPING THE PROCESSES OF THE FUTURE

Developing and optimising chemical and biotechnological processes plays a key role in modern society. Competitive industries will be environmentally sustainable, efficient in terms of resources and energy as well as technologically advanced. We provide our students with the knowledge and tools to enter and develop the industry of the future. In the first year of the Biotechnology and Chemical Engineering programme, laboratory exercises, practical exercises, and excursions play a key role in many courses in addition to lectures and theoretical exercises. The second year consists mainly of project work, which often involves students working closely with companies. Students with scientific ambitions have the possibility of continuing with a PhD, which can also involve industrial collaboration.

## CHOOSING YOUR SPECIALISATION

The focus of the degree programme is the development and optimisation of processes in the chemical and biotechnological industries and in the environmental sector. If you have an engineering background in chemistry and choose to pursue this specialisation at MSc level, you will be able to work with areas as diverse as food, polymer chemistry, and membrane and separation technology. If on the other hand your background is in biotechnology, you can pursue this specialisation to gain opportunities to work in areas such as developing enzymes and proteins for use in "green" production, lipid technology,

and medical biotechnology. Whether your background is in chemistry or biotechnology, you will also be able to specialise in environmental or energy technology, leading to opportunities to work in areas such as waste water treatment, biorefinery, air cleaning, and biogas production.

## PUTTING RESEARCH INTO PRACTICE

Teaching at Aarhus University is greatly influenced by the research conducted here, as all the lecturers are active researchers. As an engineering student, you have excellent opportunities to work with researchers in the laboratory, or you can complete a project in collaboration with a private company.

## STUDENT LIFE

At Aarhus University you will be part of an extensive engineering environment with more than 3,000 engineering students. So you will have ample opportunity to get involved in both academic and social student associations with your fellow students.

Aarhus University campus is unique in that its buildings are closely grouped together and surrounded by nature. The campus is conveniently situated close to the city centre, and student accommodation is readily available as long as you apply on time. There are a range of activities, ranging from running to a regatta on the lake, as well as guest lectures, film screenings, and university events taking place throughout the year. To ensure student well-being, counselling services are available to offer students support and guidance during their time at Aarhus.

## CAREERS

As a graduate engineer in chemistry and biotechnology, you will be developing the processes of the future – processes that will ensure that chemical, biotechnological, and environmental knowledge finds sustainable applications that can benefit society as a whole.

The MSc programme is also monitored by representatives of chemical companies such as DuPont, Arla, Aarhus Karlshamn, and Cheminova, all of which are interested in employing newly qualified graduate engineers in chemistry and biotechnology.



photo: Peer Klerck

Groundwater can reveal many unpleasant surprises, which is why we are testing groundwater drillings in Denmark today. I want to help make sure that Denmark's groundwater continues to be of a very high and clean standard.

**MIA RIX JALUM**

MSc in Biotechnology and Chemical Engineering



**AARHUS  
UNIVERSITY**



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/biotechchemical](https://masters.au.dk/biotechchemical)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN BIOTECHNOLOGY AND CHEMICAL ENGINEERING

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Compulsory Courses	Compulsory Courses	Elective Courses	THESIS
Compulsory Courses	Compulsory Courses	Elective Courses	
Specialised Study Package 1	Specialised Study Package 2	Elective Courses	
		Elective Courses	
30 ECTS	30 ECTS	30 ECTS	

### ELECTIVE COURSES

Choose courses from the specialised study packages or from other courses at the Department of Engineering and the broader Faculty of Science, subject to approval by the study programme manager.

AU Course Catalogue:  
[kursuskatalog.au.dk/en/](https://kursuskatalog.au.dk/en/)

## COMPULSORY COURSES CHEMICAL ENGINEERING

### AUTUMN

Sensors & Process Control	10 ECTS
Transport Phenomena	5 ECTS

### SPRING

Applied Innovation in Engineering	5 ECTS
Modern Chemical Process Technologies	10 ECTS

## COMPULSORY COURSES BIOTECHNOLOGY

### AUTUMN

Lipid Biotechnology	5 ECTS
Protein and Carbohydrate Biotechnology	10 ECTS

### SPRING

Applied Innovation in Engineering	5 ECTS
Microbial Biotechnology	5 ECTS
Bioseparation Engineering	5 ECTS

## SPECIALISED STUDY PACKAGES

### AUTUMN

<b>Applied Lipid and Protein Biotechnology</b>	
Applied Protein Biotechnology	10 ECTS
Applied Lipid Biotechnology	5 ECTS

### Biomacromolecules Lipid

Lipid Biotechnology	5 ECTS
Protein and Carbohydrate Biotechnology	10 ECTS

### Biomaterial Engineering

Biofabrication	10 ECTS
Tissue Engineering	5 ECTS

### Energy and Storage

Energy Conversion and Storage Technologies	10 ECTS
Energy Systems	5 ECTS

### Environmental Technology

Air Treatment Technologies	5 ECTS
Water Treatment Technologies	10 ECTS

### Process Technology

Sensors and Process Control	10 ECTS
Transport Phenomena	5 ECTS

### SPRING

<b>Biorefining Technology</b>	
Experimental Biorefining	5 ECTS
Integrated Biorefining Technologies	10 ECTS

### Chemical Processing

Platform Chemicals and Synthesis in Continuous Flow	10 ECTS
Catalysis and Materials Engineering	5 ECTS

### Medical Biotechnology

Immunological Biotechnology	10 ECTS
Biomolecular Interactions	5 ECTS

### Plastic Materials

Advanced Polymer and Nanomaterials	10 ECTS
Plastic Engineering	5 ECTS

### Industrial Biotechnology

Bioprocess Engineering	10 ECTS
Industrial Fermentation	5 ECTS

# MSC IN CHEMISTRY\*

CUSTOMISABLE, RESEARCH-DRIVEN INVESTIGATIONS IN CHEMISTRY



◀ I combine new fats for chocolate, which could be specifically for the outer shell, for example. First of all the fats have to be developed using databases and calculations. After that, the finished coatings are tested in the chocolate laboratory. My working day is extremely varied, and I have free rein over what I do. The concept that applies here is freedom with responsibility.

**MORTEN D. ANDERSEN**  
PhD in Chemistry, Aarhus Karlshamn (AAK)

The MSc programme in Chemistry lets students specialise in their chosen area of interest while building strong foundational knowledge in the field. Students can construct their own unique programme with courses from various branches of chemistry such as organic chemistry, NMR spectroscopy, analytical chemistry, inorganic chemistry, theoretical chemistry, and physical and materials chemistry. Courses and research opportunities are constantly reviewed, not only to make sure they reflect the needs and demands of business and industry, research institutions, and the public sector, but also to contribute to solving societal challenges. The MSc programme is challenging, yet highly rewarding.

## LEARNING FROM LEADERS IN THE FIELD

Course content is heavily influenced by the research currently being conducted at Aarhus University, as all lecturers are also active researchers. Students are expected to take part in fundamental research projects with the department's research groups, and there may also be opportunities to work with private companies or public institutions during their studies.

Students will be able to specialise within one of the areas of chemistry in which Aarhus University is particularly strong: synthesis and analysis of new organic substances; nuclear magnetic resonance studies; X-ray and laser spectroscopy; computer simulations for investigations; calculations of molecular properties, reaction mechanisms; atmospheric chemistry; and materials – synthesis, structure, properties, and new materials. Interdisciplinary research themes include life chemistry, functional materials and energy, and environment and climate. Students in the programme have access to high-quality laboratory equipment and tools that will allow them to engage in hands-on learning at the cutting edge of science.

## PROGRAMME STRUCTURE

Students in the MSc Chemistry programme participate in courses during the first year and then complete their studies with a second year of independent research undertaken within a research group. The research project is supervised by a researcher in the department, and may be carried out in collaboration with an external partner.

## STUDENT LIFE

The Department of Chemistry has an active student environment, with both academic and social activities arranged by our student organisations. During your time as a master's student you will be working closely with team members in one of the research groups, as well as participating in the academic and social events of the group.

## CAREERS

There are more chemistry openings in Denmark than there are domestic graduates to fill them, making unemployment very low for graduates in chemistry.

Graduates from the MSc Chemistry programme typically find work in research, development, teaching, communication, or consulting in both public and private sectors. Aarhus University alumni have found interesting careers with a broad range of companies including Haldor Topsøe, Novo Nordisk, Eurofins, DuPont, Arla, Chr. Hansen, Vestas, and LEGO.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/chemistry](https://masters.au.dk/chemistry)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN CHEMISTRY\*

CUSTOMISABLE, RESEARCH-DRIVEN INVESTIGATIONS IN CHEMISTRY

## ADMISSION REQUIREMENTS

Students must have a bachelor's degree amounting to at least 60 ECTS credits in Chemistry. Other qualifications can also provide admission to the Master's programme, subject to the university's assessment that their level, extent, and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of chemistry, mathematics, physics, and statistics.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/chemistry](https://masters.au.dk/chemistry)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500



# MSc IN GEOLOGY\*

A CUSTOMISABLE, IN-DEPTH AND PRACTICAL ANALYSIS OF OUR CHANGING PLANET



◀ The teaching in Geoscience is a combination of lectures and lab assignments. I really like that, and it gives you a close working relationship with your teachers. Generally there's a very good sense of community in the programme. The student numbers are not vast and the social events mean that you get to know students in the other years. Another nice thing about being a student here is that people are ready to help each other with assignments across the student years and across the specialisations.

I was lucky enough to get a student job here in Geoscience, and I'm really happy about that. It means I get to work on a deeper level in my specialisation than through study alone. Right now I'm working on my thesis, which I'm doing as a business thesis, working with Region Midtjylland. It's quite oriented towards engineering. It helped me to see what a wide range of jobs there are out there for someone with a Master's from the Department of Geoscience.

**PERNILLE BÜLOW**  
Student, MSc in Geoscience

The MSc in Geology at Aarhus University is a flexible, research-centred programme that encourages students to explore their own interests both in the lab and in the field. The programme includes most classic geological disciplines in new and modern guises. Students have the chance to customise their research within the programme so as to suit their own personal and professional interests.

## SPECIALISED RESEARCH

Teaching on the programme is integrated with research at the highest international level. The Department of Geoscience is renowned for its research in quaternary geology, hydrogeology, basin and lithosphere geology (oil geology and geothermics), micropalaeontology and climate research, structural geology, petrology, and geochemistry. The department also has a close collaboration with the Department of Archaeology. A number of laboratories are available, including a luminescence dating facility, a metal-free clean laboratory with mass spectrometers, a cosmogenic nuclide laboratory, and a core scanner. Students work closely with technical staff and with some of the best Danish and international researchers in the field. Teamwork is promoted so as to provide a forum for group research and discussion as well as opportunities to partner with private companies for research.

## STUDENT LIFE

The Department of Geoscience is a small community of about two hundred students brought together by shared research, team field trips, and common interests.

Classes take place in modern facilities with well-equipped labs. Students have access to cosy study areas, quiet reading rooms, wi-fi, computers and, of course, a classic Danish pop-up Friday bar. Students also have access to a communal office where they can sit and read, or just hang out together.

## CAREERS

Graduates of the programme have moved into a wide range of careers, from the water and oil industries to engineering and construction, government consultancy, and research.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/geology](https://masters.au.dk/geology)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500



# MSC IN GEOLOGY\*

A CUSTOMISABLE, IN-DEPTH AND PRACTICAL ANALYSIS OF OUR CHANGING PLANET

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of geology, geophysics, physics, chemistry, mathematics, probability theory, statistics, and programming.

## SPECIALISATIONS IN MSC IN GEOLOGY

The MSc in Geology is a two-year programme offering four different specialisations. The specialisation is chosen in the first year, and the second year is dedicated to the Master's thesis.

Modules in each specialisation are either 5 or 10 ECTS. A full year of study is 60 ECTS.

For more information visit our webpages

<http://geo.au.dk/en/studies/>

### Specialisation in Water:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Hydrogeology and Groundwater Modelling 10 ECTS	Electrical and Electromagnetic Methods (+ Field Course) 10 ECTS
Glacial Geology and Sedimentology 10 ECTS	The Hydrogeochemical Cycle 10 ECTS
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

### Specialisation in Ice and Climate:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Glacial Geology and Sedimentology 10 ECTS	Sedimentary Archives (+ field course) 10 ECTS
Climate through Earth's History 5 ECTS	Quaternary Geochronology 5 ECTS
Geohazards 5 ECTS	Elective Courses 5 ECTS
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

### Specialisation in Energy:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Structures in Basins 10 ECTS	Sequence Stratigraphy 10 ECTS
Earth's Renewable Energy Sources 5 ECTS	Basin Analysis and Modelling 10 ECTS
Basin Reflection Seismics 5 ECTS	
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

### Specialisation in Deep Earth:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Advanced Structural and Field Geology (Field Course) 10 ECTS	Ore Deposit Geology 10 ECTS
Lithosphere Physical Structure and Dynamics 10 ECTS	Methods in Petrology and Geochemistry of the Deep Earth 5 ECTS
	Earth System Petrology Seminar 5 ECTS
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

# MSC IN GEOPHYSICS\*

FROM LAB TO FIELD: A CRITICAL, COLLABORATIVE AND HANDS-ON EXPLORATION OF THE EARTH



◀ I found the degree programme to be very business-oriented. The courses incorporate real-life issues into the classes, and the many projects during the programme gave me an opportunity to work with companies and gave me business-related experience in my study programme. The study environment at the Department of Geoscience, where the programmes in both geology and geophysics are located, is also very nice. You get to know most students and lecturers very quickly.

**TOKE HØJBJERG SØLTØFT**

MSc in Geophysics

Managing Director, Aarhus GeoSoftware

The MSc in Geophysics at Aarhus University provides a compelling learning experience, integrating skills in physics and mathematics with proper geoscience. Students get to choose their own specific area of focus while exploring a variety of fields at a range of scales, from past and present climate and shallow quaternary structures and materials, through the development of groundwater aquifers and sedimentary basins, to the structure and dynamics of the lithosphere and the Earth's mantle. Numerical modelling is generally used.

## HIGH-CALIBRE RESEARCH

Teaching on the programme is integrated with research at the highest international level. The Department of Geoscience is renowned for its research in hydrogeophysics (airborne and surface electromagnetic methods) for use in hydrogeology and mineral exploration. Further specialities are reflection seismic acquisition (on board the research vessel Aurora), processing, and interpretation, as used in subsurface mapping of hydrocarbon and geothermal reservoirs; seismology and potential fields; and numerical modelling of surface and mantle processes.

The thesis, which is heavily weighted, is a chance for students to tailor their degree to their own personal and career interests while benefiting from close collaboration with fellow students and faculty members.

## STUDENT LIFE

The Department of Geoscience is a small community of about two hundred students brought together by shared research, team field trips, and common interests.

Classes are held in modern facilities with well-established labs. You will have access to cosy study areas, quiet reading rooms, wi-fi, computers and, of course, a classic Danish pop-up Friday bar. As a Geoscience Master's student, you will also have access to a communal office where you can sit and study, or just hang out with other students.

## CAREERS

Geophysics graduates have found jobs across a wide range of fields, including groundwater management, geophysical exploration for water and minerals in engineering companies and in the energy sector (including oil and gas), and for geothermal energy and CO<sub>2</sub> deposits. They also frequently move into higher education and government research.

## ADMISSION REQUIREMENTS

A bachelor's degree amounting to at least 60 ECTS credits in geophysics and physics can qualify the student for admission, provided the combined academic demands regarding the Master's programme in Geophysics are met.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/geophysics](https://masters.au.dk/geophysics)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN GEOPHYSICS\*

FROM LAB TO FIELD – A CRITICAL, COLLABORATIVE AND HANDS-ON EXPLORATION OF THE EARTH

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of geology, chemistry, mathematics, statistics, programming and probability calculus.

### Specialisation in Water:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Hydrogeology and Groundwater Modelling 10 ECTS	Electrical and Electromagnetic Methods (+ Field Course) 10 ECTS
Glacial Geology and Sedimentology 10 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

### Specialisation in Energy:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Structures in Basins 10 ECTS	Basin Analysis and Modelling 10 ECTS
Physical Structure and Dynamics of the Lithosphere <b>or</b> Introduction to Numerical Geo-modelling and Inversion 10 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

## SPECIALISATIONS IN MSC IN GEOPHYSICS

The MSc in Geophysics is a two-year programme offering four different specialisations. The specialisation is chosen in the first year, and the second year is dedicated to the master's thesis.

Modules in each specialisation are either 5 or 10 ECTS. A full year of study is 60 ECTS.

For more information visit our webpages

<http://geo.au.dk/en/studies/>

### Specialisation in Ice and Climate:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Introduction to Computational Geomodelling and Geoinversion 10 ECTS	Advanced Geomodelling and Geoinversion 10 ECTS
Climate through Earth's History 5 ECTS	Quaternary Geochronology 5 ECTS
Geohazards 5 ECTS	Elective Courses 5 ECTS
Elective Courses 10 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

### Specialisation in Deep Earth:

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER
Petrology (+ Field Course) 10 ECTS	Ore Deposit Geology 10 ECTS
Physical Structure and Dynamics of the Lithosphere 10 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
Elective Courses 10 ECTS or 5+5 ECTS	Elective Courses 10 ECTS or 5+5 ECTS
30 ECTS	30 ECTS

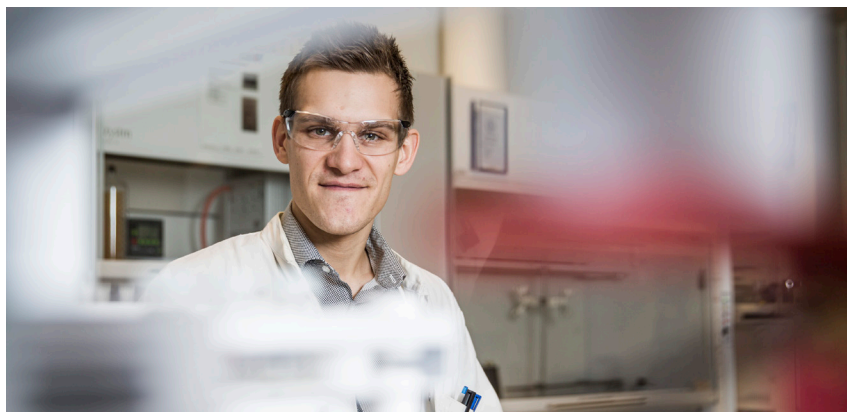
# MSc IN MEDICINAL CHEMISTRY\*

A CREATIVE, COLLABORATIVE AND RESEARCH-ORIENTED APPROACH TO MEDICINAL CHEMISTRY

➤ My Master's degree programme in Medicinal Chemistry was a good combination of lab work and theoretical classes. There were many elective subjects on the programme, so it was very much up to me to put my own study programme together so I could specialise in the field I was interested in.

## RASMUS DJURHUUS

MSc in Medicinal Chemistry  
Account Manager at Agilent Technologies



Aarhus University's MSc in Medicinal Chemistry builds on a strong chemical foundation. It is a flexible study programme that can be tailored to the specific interests of the individual student, while aligning with the interests of the business community, research institutions, and the public sector. While the programme is customisable, there is an emphasis on the medicinal aspects of chemistry, such as organic synthesis, drug delivery, and protein structure and function. The MSc programme is challenging, yet highly rewarding.

## LEARN FROM LEADERS IN THE FIELD

Course content is heavily influenced by the latest research conducted at Aarhus University, as all lecturers are also active researchers. Students are expected to take part in fundamental research projects with the department's research groups, and there may also be opportunities to work with private companies or public institutions during their studies. Students will be able to specialise within one of the areas of medicinal chemistry in which Aarhus University is particularly strong: organic synthesis, analysis of new bioactive compounds, structure and activity of membrane-bound proteins, microscopic structure of bones and other bioinorganic materials, modelling of proteins and their interaction with pharmaceuticals, and drug delivery and chemical biology. Students in the programme have access to high-quality laboratory equipment and tools that allow them to engage in hands-on learning at the cutting edge of science.

## PROGRAMME STRUCTURE

Students enrolled in the MSc Medicinal Chemistry programme participate in courses during the first year and then complete their studies with a second year of independent research undertaken within a research group. The research project is supervised by a researcher in the department, and may be carried out in collaboration with an external partner.

## STUDENT LIFE

The Department of Chemistry has an active student environment, with both academic and social activities arranged by our student organisations. During your time as a master's student you will work closely with team members in one of the research groups, as well as participating in the academic and social events of the group.

## CAREERS

There are more chemistry openings in Denmark than there are domestic graduates to fill them, making unemployment very low for graduates in Medicinal Chemistry.

Medicinal Chemistry graduates have moved into R&D and consultancy jobs in both public and private sectors, and several graduates are currently working in pharmaceutical and biotechnology companies. As a graduate of the programme you will be well placed to work with pharmaceutical companies such as Novo Nordisk, Novozymes, LeoPharma, and Lundbeck. Your strong chemistry background will also give you a point of entry into careers with companies in other sectors, such as DuPont, Chr. Hansen, and Eurofins.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

## WWW

[masters.au.dk/medicinalchemistry](https://masters.au.dk/medicinalchemistry)

# MSC IN MEDICINAL CHEMISTRY\*

A CREATIVE, COLLABORATIVE AND RESEARCH-ORIENTED APPROACH TO MEDICINAL CHEMISTRY

## ADMISSION REQUIREMENTS

A bachelor's degree amounting to at least 60 ECTS credits in medicinal chemistry can qualify the student for admission. Other qualifications can also provide admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of medicinal chemistry, mathematics, physics, and statistics.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/medicinalchemistry](https://masters.au.dk/medicinalchemistry)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN MOLECULAR BIOLOGY\*

BENEFITING FROM WORLD-CLASS RESEARCH

➤ In my Master's programme I had the freedom to specialise within the topics I found most interesting. For me, this was an advantage – it meant that I chose to continue primarily with courses within cell biology. I spent the final year of my Master's working on my thesis in the research lab at the Department of Molecular Biology. I was working on a project where we studied the repair mechanisms of DNA damage in neurons. In the lab, I got the opportunity to learn about life as a researcher, and to test methods that would be useful later in my career. Getting to spend an entire year in the laboratory was very valuable.

## ANNE YDE

MSc in Molecular Biology

PBU Manager at Eurofins Agro Testing



The MSc in Molecular Biology programme is both practical and research-oriented, reflecting the interests of business and industry, research institutions, and the public sector. This flexible programme accommodates the interests of the individual student, because it allows you to specialise in a particular subject area while acquiring a general mastery of molecular biology.

## SPECIALISATION

Students can choose to specialise within a choice of fields, including one of the five branches of molecular biology in which Aarhus University is particularly strong: molecular medicine, structural biology, systems biology, plant biology, and quantitative genetics.

The study programme can be tailored to fit the individual student's qualifications and interests. In the first year, you will follow an individually planned course programme. In the second year, you will write a thesis. There are excellent opportunities for collaboration with a group of researchers in connection with your thesis project work, and this gives you the chance to participate in the group's research projects, academic discussions, and articles.

## WORLD-CLASS RESEARCH

Teaching in the Department of Molecular Biology and Genetics is greatly influenced by the research conducted here, as all the lecturers are active researchers. Students gain insight into ongoing research projects across the entire spectrum of molecular biology – from bacteria and yeast to humans. The understanding of biochemistry and molecular biology is based upon the entire spectrum, from atoms to organisms.

## STUDENT LIFE

Students in the programme are based at the Department of Molecular Biology, which is located in Die Rote Zone, the department's large facility in Science Park Aarhus, which students have furnished themselves and where they meet in connection with academic and social activities (and which has its own Friday bar). A number of student organisations in the department also organise academic activities.

## CAREERS

As a molecular biologist, you will primarily be working with finding solutions to the many health and food challenges faced by our society due to ageing populations and more stringent standards for food development and quality. These areas are growing rapidly – a trend that is expected to continue. The employment prospects for future molecular biologists therefore look very promising.

Graduates of the Molecular Biology MSc programme are very much in demand on both Danish and international job markets. Previous graduates are working across a wide range of fields and institutions, mostly within research or administration and consultancy, in both private and public sectors. Graduates who want to be communicators go into teaching at lab-technician and teacher-training colleges or adult education. Other molecular biologists work in specialist molecular biology fields in the food industry, the health sector, or the pharmaceutical industry.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/molecularbiology](https://masters.au.dk/molecularbiology)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN MOLECULAR BIOLOGY\*

BENEFITING FROM WORLD-CLASS RESEARCH

## ADMISSION REQUIREMENTS

Students must have a bachelor of science degree with subject components in molecular biology equalling 60 ECTS credits, as well as basic subject components in mathematics, chemistry, and statistics. Other qualifications can also provide admission to the Master's programme, provided the university assesses that their level, extent, and content correspond to the degrees mentioned above.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of molecular biology, bioinformatics, chemistry, mathematics, probability theory, and statistics.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/molecularbiology](https://masters.au.dk/molecularbiology)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500



# MSc IN MOLECULAR NUTRITION AND FOOD TECHNOLOGY\*

## A CAREER IN THE FOOD AND HEALTH SECTOR

➤ In my graduate programme, I particularly enjoyed the practical exercises in the lab and the visits to food companies. These gave me great insights not only into food analysis but also job opportunities. It clarified the purpose of my education for me. Today, though, what I appreciate most is the deep and critical understanding I gained through doing scientific research and reading scientific papers. I use this every day in my work.

Since graduating I have worked at Kulinarium, an R&D unit in nutrition, food, and meals at Aalborg University Hospital, Denmark. I use several skills drawn from my Master's in my work, including building strong scientific work and critically reading scientific articles. I also benefit in the design of better foods from my knowledge of food systems and analysis. The Master's degree gave me a solid foundation in and understanding of molecular nutrition, and that helps me when I specialise foods for specific patient groups and their individual needs.

### ANNE KATHRINE LARSEN

MSc in Molecular Nutrition and Food Technology  
Aalborg University Hospital



photo: Line Bloch Klostergaard

We are what we eat. The key message here, from health gurus and medical professionals alike, is that people need to tackle their health problems by eating the right food in the right quantities. Science shows a strong correlation between our health and the composition and quality of the food we eat.

The MSc programme in Molecular Nutrition and Food Technology provides you with the tools and knowledge you will require to develop nutritious foods designed to reduce the risks of developing health issues such as obesity, diabetes, heart disease, allergy, and cancer. In addition you will acquire knowledge of food technology and of processes that affect food quality and functionality, as well as consumers' choice of foods.

### UNIQUE COMBINATION OF FOOD TECHNOLOGY, NUTRITION AND HEALTH

The MSc in Molecular Nutrition and Food Technology is a collaborative effort between four disciplines at Aarhus University – food science, molecular biology, medicine, and business administration. This broad foundation means that you will be taught by experts in these fields, but also that the programme provides a holistic understanding of the path that food takes from field to fork, including raw material quality, ingredients, and food technology.

On the programme you will gain insight into how new processing methods affect the functional characteristics of foods. You will acquire a thorough knowledge of molecular biology and technical skills at the all-important juncture between food technology, nutrition, and health.

### RESEARCH SUPPORT

Within the programme, students choose to specialise either in molecular nutrition or food science/technology. You can choose to collaborate with relevant research groups in one of the main disciplines in connection with project work and with your thesis. Alternatively, you can choose to write your thesis within an R&D department in a private company in the food industry.

### STUDENT LIFE

Students on this programme are based at the University Park campus in Aarhus, where a number of student organisations arrange academic activities, excursions, celebrations, and social functions.

### CAREERS

Many graduates from the MSc in Molecular Nutrition and Food Technology have pursued careers in R&D. Others have taken up roles within advisory or administrative departments in the food industry, as well as in the public sector. Some graduates have used the MSc as the foundation for an academic career – you can apply for admission to the university's PhD programme either after the first year of the MSc degree or following completion of your thesis.



#### PLACE OF STUDY

Aarhus

#### WWW

[masters.au.dk/molecularnutrition](https://masters.au.dk/molecularnutrition)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN MOLECULAR NUTRITION AND FOOD TECHNOLOGY\*

A CAREER IN THE FOOD AND HEALTH SECTOR

## ADMISSION REQUIREMENTS

Students must have a scientific, agricultural, technical scientific, or medical scientific bachelor's degree with a molecular biological content corresponding to a minimum of 60 ECTS. This includes a minimum of 10 ECTS within biochemistry and a further 50 ECTS within the subjects of chemistry, organic chemistry, analytical chemistry, or molecular biology.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of molecular biology, biochemistry, cell biology, food chemistry, organic chemistry, analytical chemistry.

## A WORLD RESEARCH LEADER

Aarhus University's research in Agricultural and Food Sciences is cutting edge and puts it in the front rank of agricultural science institutions worldwide. The core areas of research are climate and natural resources, environment and bioenergy, organic farming, food quality, farm animal production, and plant production.

Sustainability is a fundamental principle. The goal is to seek solutions that contribute to environmentally and economically sustainable development of the agricultural and food industries.

## IN THE RANKINGS

Agricultural sciences by subject at Aarhus University rank twenty-second in the world in the 2020 *US News Best Global Universities* ranking, and in the 2019 National Taiwan University ranking are nineteenth in Agricultural Sciences by subject. Agriculture and Forestry at AU is ranked thirty-fifth in the 2020 *QS World University Rankings by subject*.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/molecularnutrition](https://masters.au.dk/molecularnutrition)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

# MSC IN ORGANIC AGRICULTURE AND FOOD SYSTEMS\*

AGROBIOLOGY DOUBLE DEGREE



My academic experience in Denmark involved a lot of free studying with group work and reports. I think this was a good thing, because it makes you more self-reliant and prepares you for work life. With a double degree you go abroad for a whole year, which gives you an opportunity to get into another culture.

## JULIA GAJO

MSc in Organic Agriculture and Food Systems, from Germany  
Danish Agricultural Agency, Green Development and Demonstration Programme

The MSc programme in Organic Agriculture and Food Systems (EUR-Organic) is a unique degree combining high-ranking research environments with state-of-the-art knowledge from industry leaders in organic food production. It prepares students to develop the solutions of tomorrow, focusing on goals such as high crop yields, high animal welfare, and low environmental impact. Students also learn how agriculture systems and current methods of food production work. At Aarhus University organic agriculture is an integrated part of all courses, and therefore the programme for students specialising in organic agriculture also includes courses focused on farming in an organic setting.

## AN INTERNATIONAL DOUBLE DEGREE

This programme is a collaboration between four leading European universities in the field of agriculture and life sciences (Aarhus University, the University of Hohenheim in Stuttgart, the University of Natural Resources and Life Science in Vienna, and the Warsaw University of Life Sciences).

Students spend one year at their chosen home university and one year at their chosen host university, and receive a degree from both institutions. Each university takes a different thematic approach to organic food production, with Aarhus University's specialisms including organic agriculture with a focus on animal or plant production, health, and welfare/nutrition.

For detailed information on each university's specialisms, visit [www.eur-organic.eu](http://www.eur-organic.eu).

## AN IDEAL STUDY ENVIRONMENT

Denmark is a world leader in organic food production, which provides the ideal setting for specialising in this field. The Danish government was one of the first to prioritise organic production, and an increasingly high percentage of food produced in Denmark today is organic.

This programme gives students an international profile, network, and perspective. Students will be exposed to differing parameters in different countries and agriculture systems around the world, and they will learn from their peers' different ways of approaching a problem – a perfect preparation for a future career in an increasingly globalised industry.

## CAREER PROFILE

Graduates can choose from a wide range of careers in supporting organic farming development. Recent graduates have worked in research and in primary production with national, regional and local authorities, and advisory services.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

## WWW

[masters.au.dk/agrobiology/#c2066577](http://masters.au.dk/agrobiology/#c2066577)

# MSC IN ORGANIC AGRICULTURE AND FOOD SYSTEMS\*

## AGROBIOLOGY DOUBLE DEGREE

### ADMISSION REQUIREMENTS

Admission to the double degree programme in Agrobiology at Aarhus University requires a relevant bachelor's degree within the field of life science such as plant, animal, or veterinary science. Detailed admissions requirements and more information about the programme are available at [www.eur-organic.eu](http://www.eur-organic.eu).

### SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of agrobiolology, chemistry, biochemistry, cytology, zoology, botany, mathematics, statistics, and probability calculus.

### A WORLD RESEARCH LEADER

Aarhus University's research in agricultural sciences is cutting-edge and puts it in the front rank of agricultural science institutions worldwide. The core areas of research are: climate and natural resources, environment and bioenergy, organic farming, food quality, farm animal production, and plant production.

Sustainability is a fundamental principle. The goal is to seek solutions that contribute to environmentally and economically sustainable development of the agricultural and food industries.

### IN THE RANKINGS

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1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
HOME UNIVERSITY	HOME UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY
BASIC SEMESTER	BASIC SEMESTER	SPECIALISATION	Elective Modules/THESIS
Joint Start-Up Module + e-learning	Compulsory Courses	Elective Modules/THESIS	
30 ECTS	30 ECTS	30 ECTS	30 ECTS



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/agrobiology/#c2066577](http://masters.au.dk/agrobiology/#c2066577)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC SOILS AND GLOBAL CHANGE\*

INTERNATIONAL MASTER 'S PROGRAMME JOINTLY OFFERED BY EUROPEAN TOP UNIVERSITIES



The Erasmus Mundus International Master's in Soils and Global Change (IMSOGLO) offers you a unique international educational experience with a focused curriculum on soils and global change by bringing together the expertise of research groups at four renowned EU universities.

The programme has been granted EU's prestigious Erasmus Mundus label. It is offered jointly by Ghent University (Belgium), University of Natural Resources and Life Sciences (Austria), University of Göttingen (Germany), and Aarhus University (Denmark).

## GLOBAL CHANGE AFFECTS THE FUTURE CAPACITY OF SOIL

Increasing population pressure, industrialisation and intensive land use are causing depletion of natural resources and are limiting the performance of land with respect to functions such as biomass production, carbon sequestration and water purification. The cumulative effects of climate change and the abovementioned aspects of global change influence the capacity of soils to regenerate and may even cause soil degradation.

The future capacity of soils to support (human) life is at stake, as recognised by national and international organisations and governmental bodies, such as the EU. Programmes have been developed to protect the environment and to increase ecosystem resilience. Numerous directives have been developed and implemented that build on scientific knowledge about soil response to external pressures.

This scientific knowledge is available in European universities, but rather dispersed due to the specialisation and size of the relevant research groups. In the past this has made it difficult for students to follow a focused curriculum on soils and global change at any individual university.

The alarming effects of global change on soils observed throughout the world emphasize the need to train more personnel worldwide to understand how soils react to global change and to develop prevention and remediation strategies and increase soil resilience. The participating universities in IMSOGLO are very well equipped to give effective and targeted training on soil interactions with global change to an international audience of students.

## COMBINE YOUR OWN STUDY PROGRAMME AT DIFFERENT EUROPEAN UNIVERSITIES

As a student on the IMSOGLO programme you will attend several higher education institutes in at least two countries.

All students will study for their first semester at Ghent University. Following this, students will choose between two specialisations.

Students who choose to specialise in 'Soil Biogeochemistry and Global Change' will study in Vienna in their second semester and in Göttingen in their third semester. In their fourth semester, they will write their master's thesis at one of these two universities.

Students who choose to specialise in 'Physical Land Resources and Global Change' will study in Ghent in their second semester and in Aarhus in their third semester. In their fourth semester, they will write their master's thesis at one of these two universities.

All students will have the opportunity to attend summer school in Vienna or to conduct fieldwork in China.



### PLACE OF STUDY

Aarhus / Ghent

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: EUR 4,500  
Others: EUR 9,000

### WWW

[masters.au.dk/soilsandglobalchange](http://masters.au.dk/soilsandglobalchange)



# MSC SOILS AND GLOBAL CHANGE\*

INTERNATIONAL MASTER'S PROGRAMME JOINTLY OFFERED BY EUROPEAN TOP UNIVERSITIES

## ADMISSION REQUIREMENTS

A bachelor's degree (minimum 180 ECTS credits) is required in pure or applied sciences (e.g., chemistry, biology, geology, civil or agricultural engineering, environmental or agricultural sciences) or an equivalent level from a recognised university or engineering college.

Sufficient academic knowledge (at least 40 ECTS in total) is also required in natural sciences (with natural sciences specified as: physics, chemistry, maths, ecology, biology, geography, environmental sciences or agricultural sciences).

English is the language of instruction in all subjects, and all applicants are therefore required to provide evidence of their English-language proficiency. Please [find more information](#) about English requirements online.

You can also apply for an Erasmus Mundus full scholarship that covers tuition fee, monthly allowance, and travel costs up to a total of 49000 EUR for the full 2-year master programme ([imsoglo.eu/tuitionandscholarships/](https://imsoglo.eu/tuitionandscholarships/)).

## CAREERS

With an International Master of Science in Soils and Global Change you will be trained in soil management in the context of global change with either an agro-ecosystem focus or an integrated land management focus. You will gain extensive knowledge about what it takes to save our soils from degradation, how to make soils resilient to climate change, and how to make soils healthy again.

You will be equipped to follow a variety of career paths as a top-level researcher, an academic, or a policymaker. This means that there are job opportunities in regional environment agencies, municipal nature conservation offices, agricultural advisory services, educational institutions, NGOs concerned with nature and the environment, consulting engineering companies, and EU institutions, ministries and other public authorities.

Research is also an obvious career path. Students can apply for admission to the university's PhD programme following completion of the thesis.

## IN THE RANKINGS

Agricultural sciences by subject at Aarhus University rank twenty-second in the world in the 2020 *US News Best Global Universities* ranking, and in the 2019 National Taiwan University ranking are nineteenth in Agricultural Sciences by subject. Agriculture and Forestry at AU is ranked thirty-fifth in the 2020 *QS World University Rankings by subject*.



### PLACE OF STUDY

Aarhus / Ghent

### WWW

[masters.au.dk/soilsandglobalchange](https://masters.au.dk/soilsandglobalchange)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: EUR 4,500  
Others: EUR 9,000

# MASTER'S DEGREE PROGRAMMES

## LANGUAGE, CULTURE AND HISTORY

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AARHUS UNIVERSITY



# MSC IN ANTHROPOLOGY – VISUAL ANTHROPOLOGY\*

## SOCIAL AND CULTURAL DIVERSITY IN AN INTERCONNECTED WORLD

➤ The independence we had to write a personally selected exam topic was wonderful. It gave me time to think, and think better, so as to write a good research paper. The content and approach in the qualitative research methodology were great, useful both in and outside academia. Thematically, I have gained so much international exposure from the Global Studies and Development specialisation. As I work now, developing my own human capital development NGO, these experiences are still very, very useful.

### GEORGE SARKODIE ADU

MA in Anthropology, from Ghana  
Head, Family Eagles



Whether they study the traditions of an indigenous group in Brazil or the social organisation of an international fashion company, anthropologists are concerned with identifying the cultural norms, beliefs and power structures that make up particular communities. The MSc in Anthropology at Aarhus University equips students to delve into and analyse the everyday life of human societies – whether across the globe or just around the corner – and the routines, rhythms and rituals that keep them going.

The programme offers front-rank training in theory, data collection, and analysis, combined with a strong emphasis on learning through fieldwork practice and other engagements with the outside world. It provides students with a thorough foundation in anthropological theory and social analysis as well as a strong focus on qualitative research methods and robust project design. Designed to allow students to approach any social context in a world of constant change, the programme revolves around the students' own ideas and projects, developed in a continuous dialogue with senior researchers and supervisors.

### VISUAL ANTHROPOLOGY

We offer a specialised English-language track in Visual Anthropology as part of the larger MSc programme in Anthropology. The track builds on a classical anthropological approach, studying human life in all its social and cultural forms, while also teaching students to work anthropologically with audiovisual media and methods in a world mediated increasingly through sound, pictures, and digital media.

Students do practical and theoretical work with experimental fieldwork methods using a camera. Hands-on workshops involve working with (for instance) the production of ethnographic films, the design of audiovisual projects and exhibitions, and exploring the use of the camera as an analytical tool.

In the first and second semester, you will take theoretical, thematic, and methodological courses, some of which will be shared with students on our general Anthropology track (these shared courses are taught in English). During your second and third semester, you gain practical experience by first preparing, then conducting an extended anthropological fieldwork, or alternatively by completing an internship at a Danish or international company or organisation. When it comes to choosing the topic for their final thesis, most students draw on material they have collected during their fieldwork semesters. In the third semester, you will begin to analyse your field data and also focus on future employment possibilities. In the fourth semester you will prepare your Master's thesis, with the possibility of creating an audiovisual product – such as a film or an exhibition element – as part of your thesis.



#### PLACE OF STUDY

Aarhus

#### WWW

[masters.au.dk/anthropology](https://masters.au.dk/anthropology)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MSC IN ANTHROPOLOGY – VISUAL ANTHROPOLOGY\*

SOCIAL AND CULTURAL DIVERSITY IN AN INTERCONNECTED WORLD

## MSC IN ANTHROPOLOGY – VISUAL ANTHROPOLOGY

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Advanced Anthropological Theory 15 ECTS	Ethnographic Methodology & Fieldwork Preparation 15 ECTS	Fieldwork 2: Analytical Reflections 15 ECTS	THESIS
Contemporary Anthropological Themes: Visual Anthropology 15 ECTS	Fieldwork 1: Creating the Field 15 ECTS	Anthropology Beyond Academia 5 ECTS	
		Advanced Anthropological Analysis (Elective) 10 ECTS	
30 ECTS	30 ECTS	30 ECTS	30 ECTS



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/anthropology](https://masters.au.dk/anthropology)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MA IN ENGLISH\*

## MASTERING THE LANGUAGE OF GLOBALISATION

English is the language of globalisation. It is the mother tongue of around 350 million people, and an even larger number speak it as a second language. The MA in English opens career opportunities in important national and international sectors associated with the cultural and creative industries and in the field of teaching.

### INSIGHT INTO CULTURES AND INDUSTRIES

In the Master's programme, you can specialise with a combination of obligatory and elective courses as you build on your BA and work with contemporary topics in one of the three theme areas: English-language literature, linguistics, and the history, society, and culture of the English-speaking world.

Whether your passion is for Anglophone literature, language, history, or all things English, the degree programme allows you to immerse yourself in the latest developments within your field of interest. You will engage in depth with the issue of what constitutes evidence within the fields of literature, linguistics, culture, and history. You will gain greater insight into standard English, its variations, and the changes that have shaped it around the world, as well as myths about language itself. You will gain an understanding of the way cultural phenomena can influence literature, and how literature in turn can influence culture. Approaching literary works with new reading techniques and theories, you will work with creative processes, storytelling and adaptation, and learn how creativity can be commercialised. Working with cultural heritage, social media, film, and other elements of visual culture, and engaging deeply with current concerns such as identity politics, gender and media, and transnationalism, you will learn how to apply historical, social, and

cultural knowledge within contemporary markets. You will be equipped with knowledge, skills, and competencies that are valued in both private and non-profit sectors.

### MASTERING ENGLISH

You will gain a deeper understanding of the language, culture, and history of English-speaking countries through lectures, seminars, excursions, and a variety of individual and group tasks. You will be trained in effective written and verbal English communication through a variety of exam forms, ranging from writing for popular magazines to academic research papers to an oral exam. You will be able to convey information and ideas clearly and vividly, both verbally and in writing, and to plan and carry out large complex projects.

### CAREERS

Numerous jobs in the private sector as well as in public institutions require advanced English-language skills and analytical knowledge of the English-speaking world. You will acquire these competencies in the Master's degree in English. You will be using English at a high international level and will gain in-depth knowledge of the history, culture, and social conditions of the English-speaking world.

Whether you seek a career in the private or non-profit sectors or as a teacher, comprehensive knowledge of the English language and the cultures and societies of English-speaking countries is important. In many situations, a high level of English-language proficiency is indispensable. With a Master's degree in English, you will have the knowledge, skills, and competencies necessary to work in the global economy.



◀ Aarhus University counts on international students. It feels like home!

**IOANNA EFSTATHIOU AND MARINA ARAMPATZI**  
MA in English, from Greece



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/english](https://masters.au.dk/english)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 8,000

# MA IN ENGLISH\*

## MASTERING THE LANGUAGE OF GLOBALISATION

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Evaluating Evidence 10 ECTS	<b>Applied Humanities Module</b> Choose two: Cultural and Creative Industries  Creative Literatures at Work  Language, Evidence, and Theory  10 ECTS + 10 ECTS	<b>Choose one of the following:</b> International Electives 30 ECTS  Profile Courses + Thesis Research Colloquium  20 ECTS + 10 ECTS  Project Placement + Thesis Research Colloquium  20 ECTS + 10 ECTS	
<b>Choose two:</b> Current Topics in History, Society and Culture  Current Topics in Literature in English  Current Topics in English Linguistics  10 ECTS + 10 ECTS	<b>Advanced Research Topics</b> Choose one (examples): Risking Trust in Early Modern Dramatic Literature  Transnationalism, Identity and Memory in Contemporary Britain  Keywords in Green Cultural Studies  Old, New, and Trans-media Fictions of Disaster: Modern Media and the Apocalypse  10 ECTS		THESIS
30 ECTS	30 ECTS	30 ECTS	30 ECTS



### PLACE OF STUDY

Aarhus

### WWW

masters.au.dk/english

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MA IN EUROPEAN STUDIES\*

ADDING A EUROPEAN DIMENSION TO YOUR EDUCATION



Exciting, challenging and inspiring, the MA in European Studies was an amazing experience for me. On top of the great professors, who shared their knowledge and experience in exploring the current challenges in Europe, I got the opportunity to meet a lot of bright, talented young people from all over the world. The Master's programme undoubtedly allowed me to grow both personally and academically.

**ILINA YORDANOVA SERAFIMOVA**  
Student, MA in European Studies, from Bulgaria

## EUROPEAN STUDIES, EUROPEAN CONNECTIONS

Europe is becoming more and more important. As Europeans become more closely connected, the EU makes decisions that affect every European nation, every level of industry, and virtually every business. However, this view of international relations is constantly challenged and discussed. In European Studies, you will learn to analyse both the problems and the possibilities inherent in the European collaboration – and in Europe in general. You will deal not only with EU institutions, but also with analyses of cultural, social, and political processes in Europe – and the question of what Europe really is.

The Master's programme in European Studies is for anyone with a bachelor's degree in a relevant social science or humanities subject who would like to add a European perspective to their education. The aim of the degree programme is to give you general knowledge of European conditions, political as well as historical and cultural, and to build on the insight you gained in your BA studies.

## NEW INTERNATIONAL PERSPECTIVES

The degree programme is aimed at students with a solid academic background who would like to add a European dimension to their education. You will acquire knowledge of European affairs to supplement your bachelor's degree. The European dimension is useful whether you wish to work with political institutions, international organisations, the business community, the media, in teaching, or with cultural understanding. This is also an international master's programme in which your fellow students will have come from all over the world. All instruction therefore takes place in English, and students speak English both during class and after hours.

## WORK INTERNATIONALLY AND INTERCULTURALLY

With a Master's in European Studies, you are qualified to analyse, understand, and work not only with European diversity, but also everything that brings Europeans together. European Studies is an interdisciplinary and multicultural degree programme, and therefore prepares you to work in international organisations, large corporations, and in public administration.



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/europeanstudies](https://masters.au.dk/europeanstudies)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 8,000

# MA IN EUROPEAN STUDIES\*

ADDING A EUROPEAN DIMENSION TO YOUR EDUCATION

## DEPARTMENT OF GLOBAL STUDIES

The Department of Global Studies provides a distinct approach to understanding our contemporary world by combining language-based area studies of Brazil, China, Japan, India, and Russia with European and International Studies and a global perspective. As an academic field, Global Studies was born only in the late 1990s and it grew exponentially in importance in the 2000s. Its main elements find their root cause in the insight that contemporary global conditions cannot be studied only in terms of states and the interactions. Taking a holistic approach, Global Studies takes history, cultural studies, and anthropology just as seriously as political science, sociology, and economics.

In step with this approach, we understand nations and regions not as cultural containers, but as globally connected. Likewise, disciplines are understood not as knowledge containers, but as connected ways of addressing similar questions.

Students at the Department of Global Studies grow to become critical and self-confident citizens of the contemporary global world. Graduates in Global Studies are well prepared for work in research, in teaching, in public institutions and ministries as well as within the private sector, where global competencies, even in small and medium-sized enterprises, are increasingly in demand.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Qualitative Research Methods 10 ECTS	EU Flashpoints 10 ECTS		
European Identities 10 ECTS	Europe in the World 10 ECTS	Profile	THESIS
Political Institutions of the EU 10 ECTS	The Borders of Europe and the EU 10 ECTS		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

In the third semester the student can choose between:

Project course (20 ECTS) + Thesis preparation (10 ECTS)

Profile course (20 ECTS) + Thesis preparation (10 ECTS)

International electives (30 ECTS)



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/europeanstudies](https://masters.au.dk/europeanstudies)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000



# MA IN INTERCULTURAL STUDIES\*

INTERCULTURAL UNDERSTANDING FROM THE PERSPECTIVE OF GLOBALISATION



Do you wonder how the refugee crises and transnational conflicts influence identity constructions, nationally as well as at a global level? Do you want to understand how today's ideological and political arguments draw on past conflicts, and what kind of impact they have? Are you eager to understand how film, visual art, and literature help us negotiate our cultural identities and shape our cultural imagination? And do you want to be able to work professionally with intercultural issues in English, French, Spanish, or German? If you do, Intercultural Studies is your choice.

**HANS LAUGE HANSEN**

Professor, Department of Communication and Culture/Spanish

In our increasingly interdependent world, cultural differences are shaping the everyday life of individuals as well as large corporations. These cultural and linguistic boundaries demand new skills to manage the deterritorialisation of culture, the transnational mobility of both people and streams of information, and increased interconnectivity through the internet and social media. The new Intercultural Studies programme offers these skills. The programme prepares students to analyse various different contexts and to engage in entrepreneurial activity using their foreign-language skills. Students can choose between four different tracks:

- Intercultural Studies (English)
- Intercultural Studies (French)
- Intercultural Studies (German)
- Intercultural Studies (Latin America and Spain).

## STUDY PROFILE

The programme will develop students' knowledge and skills in languages, intercultural communication, and competence as well as their cultural understanding from the perspective of globalisation. Furthermore, the programme contains elements of project management, including the opportunity for a one-semester internship.

Students will study key contemporary themes from a historical perspective within the fields of culture, language, and society. The working methods include the study of real-life cases and project-oriented group work.

## PROGRAMME STRUCTURE

The four different foreign-language combinations follow the same basic structure, but address specific cultural characteristics, products, and issues, as well as the respective problems that may arise in relation to intercultural communication.

## STUDENT LIFE

The Faculty of Arts and Aarhus University as a whole organise many events for students including lectures, student fairs, career days, seminars, celebrations, and sports days.

## CAREERS

Graduates of the programme are highly valued for their strong intercultural competencies and multilingual projects and processes by both private and public organisations in the international job market.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/interculturalstudies](https://masters.au.dk/interculturalstudies)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MA IN INTERCULTURAL STUDIES\*

INTERCULTURAL UNDERSTANDING FROM THE PERSPECTIVE OF GLOBALISATION

## MA in Intercultural Studies (French, German and Latin America and Spain)

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Intercultural Interactions in Times of Globalisation ** 10 ECTS	Managing Intercultural Interactions ** 10 ECTS		
Local Representations, History and Globalisation * 20 ECTS	Media, Culture and Identities * 10 ECTS	Profile***	THESIS*
	Intercultural Communication and Competence * 10 ECTS		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## MA in Intercultural Studies (English)

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Intercultural Interactions in Times of Globalisation**	Managing Intercultural interactions**		
Local Representations	Engaging Conflict and Culture	Profile***	THESIS
History and Globalisation	Transcultural Communication		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

*	Subject-specific courses, teaching and exams in German, French and Spanish depending on your choice of language (the thesis can be written either in English or in your chosen language)
**	Common core subjects across all Master's degree programmes in intercultural studies. Teaching and exams in English.
***	In the profile semester, students can choose between: <ul style="list-style-type: none"> <li>• 30 ECTS International Electives passed at a university abroad</li> <li>• 20 ECTS Intercultural Projects in a Globalised World and 10 ECTS Thesis Research Colloquium</li> <li>• 30 ECTS Project Placement</li> </ul>

# MA IN LINGUISTICS\*

## UNDERSTANDING LANGUAGE: ITS DIVERSITY AND FUNCTION

The MA in Linguistics at Aarhus University explores the various aspects of language through project-based research under expert supervision. The programme examines first and second language acquisition, language description and diversity, corpus linguistics, functionalist theories of language, communication, social and individual multilingualism, and text structures, all combined with qualitative and quantitative methods.

### A CLOSE COMMUNITY

Linguistics at AU is a medium-sized programme with about a hundred students – so students are welcomed into a tight-knit academic and social community. Expect many opportunities for dialogue with professors, detailed feedback, and many after-class activities.

The programme is known for its strong international research profile. Teachers have worldwide connections and are aware of the newest developments in their fields. Each semester, students are invited to participate in research projects on a range of subjects.

### STUDENT LIFE

Between Lingoland (the department's own common room) and the regular Lingobar gatherings in the Kommabar on Fridays, life as a linguistics student at AU can extend far beyond coursework.

The department's ViGør student committee ("We can do it" in Danish) and the MA course café are constantly busy organising weekly events for students – so between gatherings inspired by classic Danish hygge (cosiness) with coffee and cake, guest lectures and Tour de Bars (think, pub crawls), students have lots to choose from.

The programme has its own student committee, which functions as a forum for students to communicate with the university and share ideas regarding both practical and school-related matters. All students can be active in the programme degree committee, where students and staff make decisions on matters relating to academic affairs.

### CAREERS

Graduates of the MA in Linguistics programme are equipped with skills in communication and in the systematisation of complex data. They are qualified to take on work as consultants, bilingualism specialists, communications officers, teachers, editors, language therapy consultants, developers of language technology, specialists in endangered languages and, of course, in public relations.

> The MA in Linguistics at Aarhus University was the best choice I could have made. The environment is great. Teachers are receptive and friendly and there are many events to get you integrated. The programme gives you a wider perspective in linguistics and prepares you for research in different fields. The department has a good network of experts to support various research topics. For example, I would like to study the endangered language of a runaway slave community in Brazil. I got real support from the professors and other researchers in the department preparing for this adventure.

### ANA PAULLA BRAGA MATTOS

MA in Linguistics

PhD Student at Aarhus University, from Brazil



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/linguistics](https://masters.au.dk/linguistics)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MA IN LINGUISTICS\*

## UNDERSTANDING LANGUAGE: ITS DIVERSITY AND FUNCTION

### PROGRAMME STRUCTURE

Students on the MA programme are involved in two research projects on exciting new topics, with the opportunity to explore linguistics through an internship. All students are assigned a staff member as mentor for the duration of their studies.

Students have a chance to complete project-oriented work with their peers in the first year, and with an external partner in the third semester – a chance to work in a practical setting. Students can choose their own research topic during all courses, including their MA thesis, and are encouraged to align this project with their future career goals.

### DEPARTMENT OF LINGUISTICS, COGNITIVE SCIENCE AND SEMIOTICS

The Department of Linguistics, Cognitive Science and Semiotics is one of the nine departments at the School of Communication and Culture at the Faculty of Arts.

The teaching at the department is not only research-based, but also research-oriented. Students are encouraged to collect and analyse data and to design and carry out experiments, either alone or in cooperation with the research staff. In some cases, students may even have their research published. Students regularly present their research to fellow students and staff at research seminars.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Experimental Psycholinguistics 10 ECTS	Typology: Unity and Diversity of the World's Languages 10 ECTS	Internship/Field Study 20 ECTS	THESIS
Grammatical Theory: A Functional Approach 10 ECTS	Computational Linguistics 10 ECTS		
Language in Context 10 ECTS	Research Workshop 10 ECTS	Thesis preparation 10 ECTS	
30 ECTS	30 ECTS	30 ECTS	30 ECTS



#### PLACE OF STUDY

Aarhus

#### WWW

[masters.au.dk/linguistics](http://masters.au.dk/linguistics)

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

# MA IN SUSTAINABLE HERITAGE MANAGEMENT\*

PREPARING YOU FOR A CAREER IN THE FIELD OF HERITAGE



Photo: Colourbox

**■** The Master's in Sustainable Heritage Management opened my eyes to the fact that our world is framed by traces of the past. The programme offers high-quality international lecturers, and your colleagues on the programme from different disciplines and countries are also impressive. At the end of the day, you leave with connections that transcend borders, unique practical experience, and expanded knowledge within an ever-growing research field.

**GITTE PETERSEN-WESTERGAARD**  
MA in Sustainable Heritage Management

## COMBINING THEORY WITH PRACTICE

The MA programme in Sustainable Heritage Management at Aarhus University provides you with the knowledge and competencies you will need to meet the multiple challenges of contemporary heritage policy, management, and research. Working with cultural and natural heritage means being conscious of, and taking responsibility for, the links between humans, the environment, and what remains from the past. We acknowledge that heritage is also an integral part of the present, and a potential resource for the future. The Sustainable Heritage Management programme equips you, through engaging with theory and best practice, with the skills necessary to work in the exciting, expanding, and increasingly complex field of heritage. You will be trained in a uniquely interdisciplinary environment to understand, designate, assess, retain, and sustain heritage and to develop, revise, and innovate the future shape of the sector.

## HERITAGE AS RESOURCE

The Sustainable Heritage Management programme qualifies you to analyse and respond ethically to the demands of heritage work, providing not only a sophisticated intellectual framework, but also a practice-based toolbox of skills. You will learn to tackle the pressing challenges of heritage management on local and global scales.

## A HIGHLY INTERDISCIPLINARY FIELD

Heritage is a highly interdisciplinary field, drawing on methodologies, theories, and approaches from several disciplines. The Sustainable Heritage Management programme at Aarhus University is anchored in an interdisciplinary research environment that includes engaging with researchers from archaeology, anthropology, geography, history, aesthetics, museology, cultural studies, and digital design.

This means that during your course of studies you will be equipped to work not only with material forms of cultural heritage, but also with intangible heritage, text, images and, not least, people and their various perceptions of heritage. The programme revolves around and intersects

with the internationally renowned Moesgaard Museum, which is located just outside Aarhus, affording unique collaborative opportunities for students and staff in this university museum environment.

## STUDENT LIFE

The Sustainable Heritage Management programme is based at the Department of Archaeology and Heritage Studies at Moesgaard, an eighteenth-century manor house newly equipped with state-of-the-art facilities that also houses the Department of Anthropology. Here you will have access to a library, computers, a common room, lounges, and a cafeteria, as well as the internationally renowned archaeology and anthropology museum, MOMU ([www.moesgaardmuseum.dk](http://www.moesgaardmuseum.dk)) and the surrounding hundred hectares of beautiful fields and woodlands leading down to the sea.

The main association for students at the department is Hikuin, which organises academic discussions about your studies and also contact with the business community, not to mention the legendary Friday bars and a number of social initiatives.

## CAREERS

Graduates in Sustainable Heritage Management are qualified for a number of job markets and industries, depending on your chosen area of interest and specialisation. While some recent graduates have embarked on PhDs at Aarhus University and overseas, others are working in the community, museum and archival sectors, in planning and development agencies, and in bodies within resource management and capacity-building, as well as in tourism and the artistic and creative industries.



### PLACE OF STUDY

Aarhus

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 8,000

### WWW

[masters.au.dk/sustainable-heritage-management](http://masters.au.dk/sustainable-heritage-management)

# MA IN SUSTAINABLE HERITAGE MANAGEMENT\*

PREPARING YOU FOR A CAREER IN THE FIELD OF HERITAGE

## CAMPUS MOESGAARD

Campus Moesgaard is a unique place. It includes the Moesgaard Library, a joint library for anthropology and archaeology, as well as the Moesgaard Museum. The library is primarily for students and staff members at Moesgaard. Here you will find study space, including space reserved for students writing their thesis. The Studenterkælders or student basement is a meeting place for anthropologists and archaeologists where you will also find the Thursday and Friday bars. You will also have the opportunity to see the many changing exhibits at the Moesgaard Museum during your time here. As a student at Moesgaard, you can access the museum for free by showing your valid student card.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Sources and Methods in Heritage Studies	Production and Communication of Heritage	Internship/Field Study 20 ECTS	THESIS
Theory and Concepts in Heritage Studies	Heritage Project Management		
Understanding Heritage Management Frameworks	Heritage Management in Practice:	Thesis preparation 10 ECTS	
30 ECTS	30 ECTS	30 ECTS	30 ECTS



### PLACE OF STUDY

Aarhus

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 8,000

### WWW

[masters.au.dk/sustainable-heritage-management](https://masters.au.dk/sustainable-heritage-management)



# MASTER'S DEGREE PROGRAMMES

## TEACHING, PSYCHOLOGY AND EDUCATION

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CHILDREN'S LITERATURE, MEDIA & CULTURE (ERASMUS MUNDUS)

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# MA IN CHILDREN'S LITERATURE, MEDIA & CULTURE (ERASMUS MUNDUS)\*

## TWO-YEAR INTERNATIONAL ERASMUS MUNDUS MASTER'S DEGREE PROGRAMME

The international Master's degree programme in Children's Literature, Media and Culture (CLMC) is aimed at students who wish to pursue a career in the areas of children's literature, media and education across a broad range of professional fields. It is also intended as preparation for PhD study. The jointly developed and implemented programme will provide you with academic knowledge and research skills and develop your practical employability. The programme will build on your interests and experiences related to children's and young adult literature, media and culture in order to deepen your knowledge of the expanding intersection between literature studies, media studies, childhood studies and education from an international perspective.

### LEARN AT LEADING INSTITUTIONS

The degree programme is located at universities in at least three European countries, including two obligatory semesters at the University of Glasgow and Aarhus University. Your teachers will be international experts from strong research communities within the field. They will provide a theoretical and analytical grounding that includes historical, literary, educational and media-related frameworks for the study of children's literature and media. As Erasmus Mundus programmes accept students from all over the world, you will be studying with a highly dedicated and talented international group of students.

### PROGRAMME CONTENT

As a CLMC student, you will be part of an integrated, international and coherent degree programme focusing on the history as well as literary and media theory of children's and young adult literature and on critical methodologies for evaluating and critiquing the corpus of children's and young adult literature and media texts. You will examine the interaction between children, young adults and adults in the production and consumption of multimodal texts. You will learn to promote and develop cultural sensitivity through the analysis of multicultural texts, media and artefacts as well as through academic dialogue among a broad international cohort of students. Furthermore, you will increase your critical understanding of contested concepts, theories and debates about the promotion, role and users of literary, media and digital texts in professional and community contexts, including understanding the global market of books, media and related artefacts for children.

### CAREERS

With a Master's degree in children's literature, media and culture, you will gain deep insight into all aspects of media and texts surrounding children and young adults today. Your knowledge of both the distinctive features of texts and media for children and young adults and the contexts in which they come into play paves the way for a career related to production and outreach/teaching within the field. The international network that you establish through the programme will allow you to pursue a career abroad. You will also be able to work with research within the field and apply for admission to the PhD programme at Aarhus University.



#### PLACE OF STUDY

Aarhus

#### ANNUAL TUITION FEE

Tuition fee for 2020/21 can be found on [mundusjournalism.com](http://mundusjournalism.com)

#### WWW

[masters.au.dk/childrensliteraturemediaandculture](http://masters.au.dk/childrensliteraturemediaandculture)

# MA IN CHILDREN'S LITERATURE, MEDIA & CULTURE (ERASMUS MUNDUS)\*

TWO-YEAR INTERNATIONAL ERASMUS MUNDUS MASTER'S DEGREE PROGRAMME

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Children's Literature and Literacies: Critical Enquiry 10 ECTS	Children's Literature and Childhood: The Interaction between Concepts of Childhood and Children's Literature and Media 10 ECTS	Profile *	THESIS
Children's Literature and Picturebooks for the Early Years 10 ECTS	Children's Literature, Texts and Media: Transmedial Connections 10 ECTS		
Cross Boundaries: Children's Literature and Other Media 5 ECTS	Life Writing and Fan Fiction 5 ECTS		
Texts for Children: From the Printing Press to Virtual Reality 5 ECTS	New Media for Children 5 ECTS		
30 ECTS	30 ECTS	30 ECTS	30 ECTS

**\*The third semester** offers the following three study profiles. Students can choose between the following three profiles:

- A) Promotion of Reading is offered by Universitat Autònoma de Barcelona, Spain.
- B) Transcultural Trajectories is offered by Tilburg University, Netherlands.
- C) Film and Participatory Culture is offered by the University of Wrocław, Poland.



#### PLACE OF STUDY

Aarhus

#### ANNUAL TUITION FEE

Tuition fee for 2020/21 can be found on [mundusjournalism.com](http://mundusjournalism.com)

#### WWW

[masters.au.dk/childrensliteraturemediaandculture](http://masters.au.dk/childrensliteraturemediaandculture)

# MASTER'S DEGREE PROGRAMMES

## IT, ELECTRONICS AND PROGRAMMING

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COMPUTER SCIENCE	128
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AARHUS UNIVERSITY



# MSC IN COGNITIVE SCIENCE\*

THE STUDY OF THE HUMAN MIND AND HOW IT IS SHAPED BY AND SHAPES OUR EXPERIENCES

Cognitive Science is the study of the human mind, brain, and behaviour. Cognitive scientists use advanced statistical modelling and sensitive experimental methods to reveal the nature of cognitive processes. They do this to advance our knowledge of human thought and behaviour, and apply this knowledge in real-world settings.

Cognitive scientists are trained to develop a rigorous theoretical understanding of topics such as human decision-making, problem-solving, language and communication, action and movement, and attention and perception. They are trained to use experimental methods including functional brain imaging, eye-tracking, behavioural experiments, and computational modelling.

## PROGRAMME CONTENT

Aarhus University's MSc in Cognitive Science is Denmark's first advanced cognitive science degree programme. It builds on our successful BSc in Cognitive Science and is designed to provide students with the advanced knowledge and methods required to work in the field.

Students in the MSc will learn how to develop their own computational models of behaviour, how to process natural language and text data, and how to analyse very large datasets. They will complete advanced courses in neuroscience and neuroimaging, human decision-making, and human-machine interaction. Classes and exams are heavily project-based and are designed to allow students to develop a rich portfolio of project work during their study.

During the programme, students will have the opportunity to use their training in project placements with other organisations. They may also have the opportunity to develop these projects further in their MSc thesis. For their thesis, students may develop their own research project, or they may choose to complete their thesis work in the context of one of the many research centres and funded projects that make up the rich cognitive science research environment at Aarhus University.

## CAREERS

Graduates from the MSc programme are trained to enter any field that requires skills in experimental design and statistical modelling of human behaviour. They will be particularly well suited to careers in the following four sectors:

- Consumer cognition: with their knowledge of how people perceive and pay attention to their environment and how they make decisions, cognitive science graduates will be well qualified to assist organisations in developing more engaging products and marketing materials.
- Cognitive analytics: with their skills in advanced statistical modelling, combined with their ability to apply those skills to explain complex human behaviour, cognitive science graduates will be well qualified to assist organisations in maximising the use of existing databases to develop new strategies and products.
- Design of information technology: with their specific skills in analysing human-machine interaction, cognitive science graduates will be well qualified to assist companies in developing new technologies for human use in both the design and testing phase of research and development.
- Sensory science: with their detailed knowledge of how the brain transforms light, sound, and chemical energy into sensory information and how it combines that information into perceptions of the world, cognitive science graduates will be well qualified for R&D in the food industry and audio technology.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/cognitive-science](https://masters.au.dk/cognitive-science)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 9,200

# MSC IN COGNITIVE SCIENCE\*

THE STUDY OF THE HUMAN MIND AND HOW IT IS SHAPED BY AND SHAPES OUR EXPERIENCES

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Advanced Cognitive Neuroscience 10 ECTS	Advanced Cognitive Modeling 10 ECTS	Profile Courses/Project Placement 20 ECTS	THESIS 30 ECTS
Natural Language Processing 10 ECTS	Data Science 10 ECTS		
Decision Making 10 ECTS	Human Computer Interaction 10 ECTS	Thesis Preparation 10 ECTS	
30 ECTS	30 ECTS	30 ECTS	30 ECTS



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/cognitive-science](https://masters.au.dk/cognitive-science)

## ANNUAL TUITION FEE

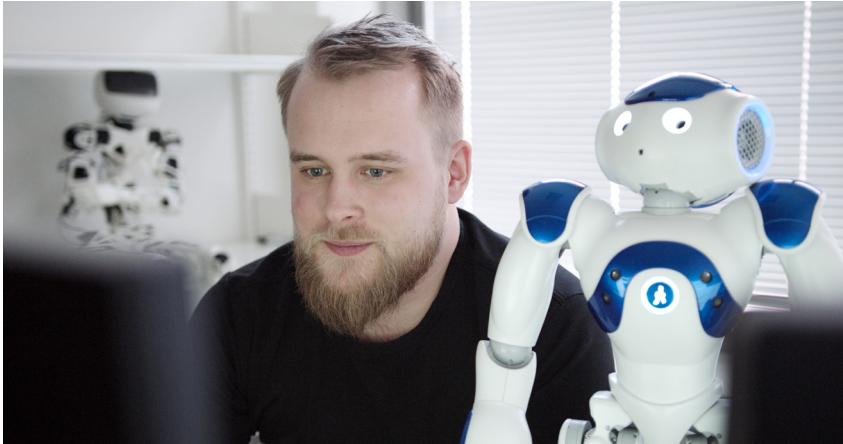
EU/EEA/Swiss citizens: FREE

Others: EUR 9,200



# MSC IN COMPUTER ENGINEERING\*

CHOOSE YOUR SPECIAL AREA OF STUDY



◀ In the future, your best friend might be a robot. It will move and talk like a human. It will have social intelligence, empathy and perhaps even a personality. Casper works with the technology that will make all this happen. His job is to design the software and algorithms to control where the robot looks when it is talking to others. And this requires advanced programming that only very few people can deal with. In the longer term, his work will become facial expressions that can automatically adapt to different social contexts. "Think about how much eye movement means when we communicate and express feelings. It's one of the most important aspects to get right if we want robots to behave more human-like."

**CASPER BONN BEENFELD ANDERSEN**  
MSc in Computer Engineering

Students in the MSc in Computer Engineering can specialise in relevant fields of study connected with system and instrument development involving software, hardware, and communication technology. Depending on your chosen specialisation, upon completion of the degree you will be awarded the title of either Master of Science in Engineering (Computer Engineering) or Master of Science and Technology (Computer Engineering).

Your teachers will be researchers from the Department of Engineering and Department of Computer Science, as well as lecturers and development engineers at the Aarhus University School of Engineering. The degree programme thus benefits from R&D projects carried out in all three environments.

## CHOOSE YOUR STUDY PACKAGE

The first year of the MSc consists of two basic study packages and two specialised study packages. All students take the basic study packages, but you can choose your own specialised study packages from the options listed on page 2. Each package is worth 15 ECTS credits. The second year consists of an elective programme and a thesis.

The MSc programme offers specialised study packages in the following fields: embedded systems, wireless networks, distributed systems decision, signal processing, and software engineering.

## TEACHING

At Aarhus University, you will be in close contact with lecturers and researchers in a way that is rarely experienced at other universities.

The academic staff are readily accessible if you need clarification of the course material. Part of the teaching is in the form of lectures that introduce new angles on the course material, and theoretical and practical exercises take place in small groups in which issues are studied in depth.

## STUDENT LIFE

At Aarhus University you will be part of an extensive engineering environment with more than 3,000 engineering students. So you will have ample opportunity to get involved in both academic and social student associations with your fellow students.

## CAREERS

The MSc in Computer Engineering prepares students for the national and international job market. Our graduates have found jobs across a range of fields and institutions. There is considerable demand for IT graduates in areas such as instrument development engineering. Many graduates are working as software architects or developers of large instruments and systems, or have become software developers or project managers for large IT systems.

Companies demand graduates with considerable theoretical depth and analytical working methods. You learn to combine the theoretically strong knowledge of a computer scientist with the more practically oriented and innovative approach of an engineer, so that you are well equipped to meet the needs of the job market.



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/computerscience](http://masters.au.dk/computerscience)  
[cs.au.dk/international](http://cs.au.dk/international)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN COMPUTER ENGINEERING\*

CHOOSE YOUR SPECIAL AREA OF STUDY

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Compulsory Courses	Compulsory Courses	Elective Courses	THESIS
Compulsory Courses	Compulsory Courses	Elective Courses	
Specialised Study Package 1	Specialised Study Package 2	Elective Courses	
		Elective Courses	
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## COMPULSORY COURSES

### AUTUMN

Optimisation and Data Analytics  
Software Engineering Principles

10 ECTS  
5 ECTS

### SPRING

Applied Innovation in Engineering  
System Engineering  
Wireless Sensor Networks

5 ECTS  
5 ECTS  
5 ECTS

## SPECIALISED STUDY PACKAGES

Choose two of the specialised study packages

### AUTUMN

#### Embedded Systems

Embedded Real-Time Systems  
Modelling of Critical Systems

5 ECTS  
10 ECTS

#### Wireless Networks

Network security  
Internet of Things Technology

5 ECTS  
10 ECTS

### SPRING

#### Distributed Systems

Decision Support Systems  
Distributed and Pervasive Systems

5 ECTS  
10 ECTS

#### Signal processing

Advanced Signal Processing  
Computer Vision and Machine Learning

5 ECTS  
10 ECTS

#### Software Engineering

Modelling and Verification  
Programming Language Paradigms

10 ECTS  
5 ECTS

## ELECTIVE COURSES

Choose courses from the specialised study packages or other courses at the Department of Engineering and the broader Faculty of Science, subject to approval by the study programme manager.

AU Course Catalogue: [kursuskatalog.au.dk/en/](https://kursuskatalog.au.dk/en/)

# MSC IN COMPUTER SCIENCE\*

FOR A CAREER IN PROGRAMMING AND SOFTWARE DEVELOPMENT



◀ I arrived in Aarhus as an exchange student on the Erasmus programme. I already had a BSc in computer science from Pisa, but it was not till I arrived in Denmark that I found out how great academic life at a university can be, and I decided to stay in Aarhus for my master's degree. After my studies, I worked for seven years at Danske Bank before joining Bestseller as Head of Customers Circle in 2018. It is an exciting place to work, because it still has a great learning culture applied in a business context. We experiment, learn and use new tech and approaches to deliver ever greater business value to our customers in our production environments. Learn more about Angelo at [cs.au.dk/career](https://cs.au.dk/career)

**ANGELO AGATINO NICOLOSI**  
MSc in Computer Science, from Italy  
Head of Customers Circle at Bestseller

## HIGH-LEVEL RESEARCH

Whether your interest is in complex algorithms, IT security, logic, and semantics, pervasive computing, or something completely different within the field of computer science, this programme will give you the opportunity to specialise in an area of your choice.

For more information regarding research areas in computer science at Aarhus University, visit [www.cs.au.dk/research](https://www.cs.au.dk/research).

## QUALITY TEACHING IN AN INFORMAL SETTING

The Master's programme in Computer Science is dedicated to the highest-quality teaching in an informal learning environment. Our international teaching staff expect students to take an active part in the programme, and staff-student consultation is always encouraged. The teaching is a mix of lectures and classes, with preparatory work in study groups.

## ADMISSION REQUIREMENTS

We expect applicants to have a bachelor's degree giving a thorough background in basic computer science. This should include: computation theory (formal languages and compilation, mathematical logic and undecidability, design and analysis of algorithms, and data structures), programming (object-oriented programming, functional programming, software architecture, and interaction design), and systems (computer architecture, operating systems, distributed systems, security, databases).

For students who meet these requirements, our Master's programme offers a number of specialisations, such as cryptology, algorithmics, programming languages, HCI, bioinformatics, and ubiquitous computing and interaction.

## STUDENT LIFE

The Computer Science department has a range of social spaces for get-ting together with fellow students outside class, and these are an excel-lent basis for both study-related and social activities. Our new study café is also a great place to get together and work with your study group. The department and our various student associations organise a variety of events and tech talks in collaboration with local and international com-pa-nies.

As a first-year student, you will also be allocated a mentor to guide and support your studies throughout the year.

## CAREERS

Computer scientists continue to be in great demand all over the world, and AU computer science graduates have a very good reputation. In Aarhus, many IT companies are on the lookout for graduates and student employees for part-time jobs. The department has a close collaboration with these local businesses and organisations. Recent graduates have been recruited by leading IT companies all over the world in areas such as software development, consultancy work, project management, and research. See more at [cs.au.dk/career](https://cs.au.dk/career).



### PLACE OF STUDY

Aarhus

### WWW

[masters.au.dk/computerscience](https://masters.au.dk/computerscience)  
[cs.au.dk/international](https://cs.au.dk/international)

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN COMPUTER SCIENCE\*

FOR A CAREER IN PROGRAMMING AND SOFTWARE DEVELOPMENT

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of computer science, mathematics, probability theory, and statistics.

## PROGRAMME STRUCTURE

With a combination of two specialisations and electives, there are many ways to structure your Computer Science master's programme. It is also possible to choose just one specialisation and then study abroad during the third semester.

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Specialisation 1			THESIS
Specialisation 2			
Elective Courses	Elective Courses	Elective Courses	
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## SPECIALISATIONS

- Algorithmics
- Bioinformatics
- Cryptology
- Data-Intensive Systems
- Human-Computer Interaction (HCI)
- Programming Languages
- Ubiquitous Computing and Interaction (UBI)

For more in-depth information about the Computer Science study programme and subjects, please visit [masters.au.dk/computerscience](https://masters.au.dk/computerscience).

## PARTNERSHIP WITH DESTINATION AARHUS

The Department of Computer Science has close collaboration with the industrial network Destination AARhus. Destination AARhus is a professional knowledge-sharing and development community of IT experts from the major IT organisations in greater Aarhus and the region. It is a community for IT talent from all over the world, exploring the unique opportunities for building an IT career in the greater Aarhus area. Destination AARhus brings together companies employing more than 3,000 IT specialists in greater Aarhus. It also hosts career events and tech talks for international students and professionals based in Aarhus.

More information at [www.destinationaarhus.com](https://www.destinationaarhus.com)

## IT CITY KATRINEBJERG

The Department of Computer Science is located in IT City Katrinebjerg, the centre where Aarhus University has consolidated all its IT degree programmes and research. IT City Katrinebjerg is the base for several IT-related companies. This facilitates contact between the university, research and the business community, and provides the ideal base for advanced technological innovation. As the largest IT education centre in Denmark, with approximately 2,500 students and more than two hundred researchers, IT City Katrinebjerg is an exciting study environment. This multidisciplinary hub, unique to Aarhus University, provides great opportunities in IT for students, researchers, and the business community.

# MSC IN ELECTRICAL ENGINEERING\*

COMBINING KNOWLEDGE WITH TECHNICAL EXPERTISE



Photo: Engineer the future

◀ Taking an interdisciplinary approach is key to finding the coolest technological solutions to all sorts of problems. Engineering students at AU have the great advantage of working with students from other disciplines, and I get to draw on other people's knowledge at work almost every day. Mostly I work with development of software and hardware, and I feel very well equipped for this by my degree from Aarhus University. I was trained at AU to use theory to solve tasks, and that is a great strength. It allowed me to start my working life as a consultant

**JONAS WEST ALRØE**  
MSc in Electrical Engineering

## SPECIALISE AS YOU CHOOSE

As a student on the MSc in Electrical Engineering programme, you have the option of specialising in a number of areas within electrical engineering, including analogue and digital electronics and signal processing.

During the first year, students take courses which provide the academic foundation required for the chosen area of specialisation. Students can choose from a wide range of specialist areas ranging from optics to electro-optics, from semiconductor technology to pure electronics.

## BUILD YOUR OWN STUDY PLAN

There is considerable freedom in choosing the subjects for the study plan and students can select from a number of optional modules, including experimental technology, data collection, micro-controls, materials physics, and much more. In consultation with the Head of programme, students can design precisely the study plan that suits their interests and background.

## STUDENT LIFE

At Aarhus University you will be part of an extensive engineering environment with more than 3,000 engineering students. So you will have ample opportunity to get involved in both academic and social student associations with your fellow students.

Aarhus University campus is unique, with its buildings closely grouped together and surrounded by nature. The campus is conveniently situated close to the city centre, and student accommodation is readily available as long as you apply on time. There are a range of activities, ranging from running to a regatta on the lake, as well as guest lectures, film screenings, and university events taking place throughout the year. To ensure student well-being, counselling services are available to offer students support and guidance during their time at Aarhus.

## CAREERS

The MSc programme in Electrical Engineering aims to train development engineers to acquire the potential to innovate in advanced-technology companies both in Denmark and abroad. Graduates find work in a wide range of fields, from basic engineering or science research in joint projects involving research institutes and the industrial sector, to R&D projects in industry. Many graduates have decided to work in the public and private industry as R&D engineers. Graduates also have the option of continuing their studies at doctoral level, often in the form of an industrial PhD.



### PLACE OF STUDY

Aarhus

### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

### WWW

[masters.au.dk/electrical-engineering](https://masters.au.dk/electrical-engineering)

# MSC IN ELECTRICAL ENGINEERING\*

COMBINING KNOWLEDGE WITH TECHNICAL EXPERTISE

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Compulsory Courses	Compulsory Courses	Elective Courses	THESIS
Compulsory Courses	Compulsory Courses	Elective Courses	
Specialised Study Package 1	Specialised Study Package 2	Elective Courses	
		Elective Courses	
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## COMPULSORY COURSES

### AUTUMN

Optimisation and Data Analytics  
Electronic Hardware System Design

10 ECTS  
5 ECTS

### SPRING

Systems Engineering  
Fundamentals of Photonics  
Applied Innovation in Engineering

5 ECTS  
5 ECTS  
5 ECTS

## SPECIALISED STUDY PACKAGES

Choose two of the specialised study packages

### AUTUMN

#### Photonics

Fiber Optic  
Photonic Devices

5 ECTS  
10 ECTS

#### Wearable Devices

RF System Design  
Wearable Electronics

5 ECTS  
10 ECTS

#### Wireless Networks

Fundamentals of Computer Security  
Internet of Things Technology

5 ECTS  
10 ECTS

### SPRING

#### Signal Processing

Advanced Signal Processing  
Computer Vision and Machine Learning

5 ECTS  
10 ECTS

#### Integrated Circuits

Digital Integrated Circuits  
Analog and Radio-Frequency Integrated Circuits

5 ECTS  
10 ECTS

## ELECTIVE COURSES

Choose courses from the specialised study packages or other courses at the Department of Engineering and the broader Faculty of Science, subject to approval by the study programme manager.

AU Course Catalogue: [kursuskatalog.au.dk/en/](https://kursuskatalog.au.dk/en/)



# MSC IN IT PRODUCT DEVELOPMENT\*

PREPARING YOU FOR A CAREER IN IT AND INNOVATION



◀ I work in a division developing new play concepts for LEGO. We work with early phases of product development, including prototyping and tests. The job is a great fit with my degree. One of the features of the Product Development programme was that we made prototypes of all the concepts we developed, and this has really made a difference to the way we approach projects. We take a very practical approach, and we can quickly produce something concrete that can move the development process along.

## MORTEN BOYE MORTENSEN

MSc in IT Product Development  
Digital Concept Designer, LEGO

### COMBINING DISCIPLINES

The MSc in IT Product Development is based at Aarhus University's Department of Computer Science and is offered in collaboration with the Department of Engineering. Students take a combination of courses from both departments related to computer science and industrial design.

### QUALITY TEACHING IN AN INFORMAL SETTING

The Master's programme in IT Product Development offers the highest-quality teaching in an informal learning environment. The teaching is a mix of lectures and classes, with preparatory work in study groups.

### SPECIALISE AS YOU CHOOSE

In their first year in the programme, students take a number of required courses in the research priority areas of physical and spatial design, IoT/cloud computing, and augmented reality. These are followed by an innovation project. In the second year, students complete a Master's thesis. Elective courses give students the scope to specialise in fields including advanced data management, multimodal interaction, interactivity, and computer mediation.

### STUDENT LIFE

The Computer Science department has a range of social spaces for getting together with fellow students outside class, and these are an excellent basis for both study-related and social activities. Our new study café is also a great place to get together and work with your study group. The department and our various student associations organise a variety of events and tech talks in collaboration with local and international companies.

As a first-year student, you will also be allocated a mentor to guide and support your studies throughout the year.

### CAREERS

The IT Product Development Master's is multidisciplinary, so it will qualify you to work across a wide range of fields. Graduates of the programme are particularly well qualified to develop IT products, as well as digital and physical interface applications supplemented by web-based services. Previous graduates have gone on to develop media and navigation equipment for motor vehicles, mobile applications, energy and media control equipment for homes, experience and learning installations for museums and attractions, and technology for the health sector.



#### PLACE OF STUDY

Aarhus

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

#### WWW

[masters.au.dk/itproductdevelopment](https://masters.au.dk/itproductdevelopment)



# MSC IN IT PRODUCT DEVELOPMENT\*

PREPARING YOU FOR A CAREER IN IT AND INNOVATION

## ADMISSION REQUIREMENTS

We expect applicants to the programme to have acquired a thorough knowledge of the basics of IT and industrial design in their bachelor's programme. These should include programming, systems, system development, physical design, basic electronics, as well as some experience of combining these disciplines.

## SELECTION CRITERIA

As the Master's programme admits only a limited number of students each year, meeting the admission requirements does not in itself guarantee admission to the programme. Student places are allocated on the basis of an overall assessment. In evaluating qualified applicants, the admissions committee assesses applicants according to the following criteria: academic background; overall grade level of bachelor's degree; grades achieved on relevant courses; and relevant courses (measured in credit units) included in the bachelor's degree.

Relevant courses include core courses within the subject areas of IT Product Development, industrial design, mathematics, probability theory, and statistics.

## PARTNERSHIP WITH DESTINATION AARHUS

The Department of Computer Science has close collaboration with the industrial network Destination AARhus. Destination AARhus is a professional knowledge-sharing and development community of IT experts from the major IT organisations in greater Aarhus and the region. It is a community for IT talent from all over the world, exploring the unique opportunities for building an IT career in the greater Aarhus area. Destination AARhus brings together companies employing more than 3,000 IT specialists in greater Aarhus. It also hosts career events and tech talks for international students and professionals based in Aarhus.

## IT CITY KATRINEBJERG

The Department of Computer Science is located in IT City Katrinebjerg, the centre where Aarhus University has consolidated all its IT degree programmes and research. IT City Katrinebjerg is the base for several IT-related companies. This facilitates contact between the university, research and the business community, and provides the ideal base for advanced technological innovation. As the largest IT education centre in Denmark, with approximately 2,500 students and more than two hundred researchers, IT City Katrinebjerg is an exciting study environment. This multidisciplinary hub, unique to Aarhus University, provides great opportunities in IT for students, researchers, and the business community.

# MASTER'S DEGREE PROGRAMMES

## TECHNICAL SCIENCE, CONSTRUCTION AND DEVELOPMENT

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CIVIL AND ARCHITECTURAL ENGINEERING	136
MECHANICAL ENGINEERING	138
TECHNOLOGY BASED BUSINESS DEVELOPMENT	140





AARHUS UNIVERSITY



# MSC IN CIVIL AND ARCHITECTURAL ENGINEERING\*

COMBINING DEEP KNOWLEDGE WITH PRACTICE



Photo: Morting Gravgaard

Computing power is now so strong that it can design building constructions with such a degree of perfection that architects and engineers almost have to give up. In my Master's thesis I got the idea of developing an algorithm for advanced grid-scale constructions. This makes it possible to improve design quality while simultaneously significantly reducing materials consumption.

**LASSE RAHBK**

PhD student, Civil and Architectural Engineering programme

The MSc programme in Civil and Architectural Engineering provides you with insight into advanced theoretical and practical aspects of topics in civil and architectural engineering, as well as the opportunity to specialise in a related field.

The programme is taught by faculty members who are active researchers, so students benefit from a research-intensive environment. You will have the chance to work with researchers and complete a project in collaboration with a private company.

## SPECIALISE AS YOU CHOOSE

Year one of the MSc consists of one compulsory study package and two specialised study packages. All students take the compulsory study package, but you can choose your own two specialised study packages from the options listed on the next page. Year two consists of an elective programme and a Master's thesis, the topic of which is decided upon consultation with professors.

Your elective programme is chosen by you. You may choose from a number of specialised courses within civil and architectural engineering, including international construction law, CFD in architectural engineering, random vibrations or timber structures. As part of the elective programme, you may also choose to do a research project or study abroad for a semester.

The MSc programme offers specialised study packages in the following fields: structural mechanics and steel design, structural dynamics, concrete structures and geotechnics, optimization of construction systems, IT in construction, tectonic design, Indoor environmental engineering.

## STUDENT LIFE

At Aarhus University you will be part of an extensive engineering environment with more than 3,000 engineering students. So you will have ample opportunity to get involved in both academic and social student associations with your fellow students.

## CAREERS

The varied forms of teaching, group collaboration, and close scientific dialogue with researchers, as well as the department's strong relationship with the industrial sector, give our graduates competencies that are in great demand on the global job market, including abstract, critical and independent thinking, analytical skills, and strategic planning. You can use these skills in many contexts – even in jobs you didn't know you were qualified for.

Previous graduates of the MSc in Civil and Architectural Engineering have found jobs with consulting engineering firms, contractors, property developers, architecture firms, or in the building component industry. Graduates typically work in roles that involve developing and designing advanced building constructions, advanced energy technology solutions and industrialised building components – frequently in interdisciplinary collaboration with architects and designers.



## PLACE OF STUDY

Aarhus

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

## WWW

[masters.au.dk/civil-and-architectural-engineering](https://masters.au.dk/civil-and-architectural-engineering)

# MSC IN CIVIL AND ARCHITECTURAL ENGINEERING\*

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER	<b>ELECTIVE COURSES</b> Choose courses from the specialised study packages or other courses at the Department of Engineering and the broader Faculty of Science, subject to approval by the Head of Degree Programme  AU Course Catalogue: <a href="https://kursuskatalog.au.dk/en/">kursuskatalog.au.dk/en/</a>
Compulsory Courses	Compulsory Courses	Elective Courses	THESIS	
Compulsory Courses	Compulsory Courses	Elective Courses		
Compulsory Courses	Compulsory Courses			
Specialised Study Packages	Specialised Study Packages	Elective Courses		
		Elective Courses		
30 ECTS	30 ECTS	30 ECTS		

## COMPULSORY COURSES

### AUTUMN

Numerical Analysis in Civil Engineering	5 ECTS
Risk and Reliability in Engineering	5 ECTS
Experimental Mechanics* or Integrated Energy Design*	5 ECTS

### SPRING

Applied Innovation in Engineering	5 ECTS
Research Methods in Civil and Architectural Engineering	5 ECTS
Structural Concepts* or Heat Transfer and Mass Transport*	5 ECTS

\* Compulsory courses may differ depending on the chosen specialisation. Find out more at: [masters.au.dk/civil-and-architectural-engineering](https://masters.au.dk/civil-and-architectural-engineering)

## SPECIALISED STUDY PACKAGES

### AUTUMN

#### Optimization of construction systems

Lean Construction	5 ECTS
Clients, Users and Innovation	5 ECTS
Advanced Planning and Scheduling of Projects	5 ECTS

#### Indoor Environmental Engineering

Energy-efficient Building Envelope Design	5 ECTS
Natural Ventilation	5 ECTS
Daylighting	5 ECTS

#### Concrete structures and Geotechnics

Limit Analysis of Concrete Structures	5 ECTS
Advanced Soil Mechanics	10 ECTS

#### Structural Dynamics

Bridge Design	5 ECTS
Applied structural dynamics	5 ECTS
Dynamics of offshore wind turbines	5 ECTS

#### Tectonic Design

Computational Design	5 ECTS
Form-finding in Building Design	5 ECTS
Tectonics in Engineering and Architectural design	5 ECTS

### SPRING

#### Indoor Environmental Engineering

Simulation of Building Energy Systems	5 ECTS
Air Physics and Building Ventilation	5 ECTS
Electric Lighting	5 ECTS

#### IT in Construction

Integrated Engineering Project	5 ECTS
Digital Construction	5 ECTS
Advanced Construction Technologies	5 ECTS

#### Structural Mechanics and Steel Design

Design and Analysis of Steel Structures	5 ECTS
Finite Element Analysis of Structures	10 ECTS

# MSC IN MECHANICAL ENGINEERING\*

COMBINING THEORY WITH PRACTICE

How do you design the blades of a wind turbine? How do you calculate the lifetime of a welded construction? How do you optimise the use of a robot? How to build a rocket engine? How do you improve the use of renewable energy? How do you design the future energy systems? How do you take part in the rapid development of 3D printed materials? How do you analyse the dynamic performance of a racing car or off-road vehicle? How to use a digital twin in the manufacturing processes? These are just some of the questions you may be exploring on the MSc programme in Mechanical Engineering.

The teaching in the programme draws on the lecturers' own research, and students have the opportunity to apply high-level theory and advanced simulations to practical issues, with scope for interdisciplinary collaboration. You will acquire a solid background in mechanical engineering fields such as continuum mechanics, composites, elasticity, plasticity, failure mechanisms, structural dynamics, fluid dynamics, energy storage, energy conversions, thermodynamics, and robotics.

You will also gain a deep understanding of the fundamentals of computational methods in mechanical engineering. Multibody dynamics, modal analysis, and computational fluid dynamics will form a core part of your study, using own-developed and commercial software such as the Finite Element Method.

## SPECIALISE AS YOU CHOOSE

The first and second semester include a number of compulsory courses and elective course packages within the specialisations of structural

mechanics, dynamics, materials engineering, thermo-fluid engineering, and robot systems. The third semester includes elective courses and a project that can be undertaken in collaboration with a company and/or a research group.

## STUDENT LIFE

At Aarhus University you will be part of an extensive engineering environment with more than 3,000 engineering students. So you will have ample opportunity to get involved in both academic and social student associations with your fellow students.

The Department of Engineering has a number of social spaces for meeting other students outside class, and these are an excellent basis for social activities. As in all departments, there is a popular Friday bar, and the RIA student association organises celebrations and social events for all students at AU Engineering.

## CAREERS

Graduates from the Mechanical Engineering programme are currently working in a wide range of fields – from basic engineering or science research in joint projects with research institutes and the industrial sector, to R&D projects in industry. Many have moved into careers within R&D departments in industrial enterprises, while some have undertaken PhDs in Denmark or abroad.



◀ I spent my first year as a structural designer doing computations of the load-carrying structure of the nacelle – the 'box' at the top of the tower of a wind turbine. I subsequently got a job as technical project manager in the same department, where I was responsible for the budget and had much more dialogue with different departments at Siemens. I've now been appointed team coordinator and am responsible for an eleven-man team including engineers and specifiers. I regard being a leader as an interesting and challenging job, and I'd like to develop in this area in the future.

### ANDREAS GOTFREDSEN

MSc in Mechanical Engineering  
Team Coordinator, Siemens Wind Power



## PLACE OF STUDY

Aarhus

## WWW

[masters.au.dk/mechanicalengineering](https://masters.au.dk/mechanicalengineering)

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 14,500

# MSC IN MECHANICAL ENGINEERING\*

COMBINING THEORY WITH PRACTICE

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Compulsory Courses	Compulsory Courses	Elective Courses	THESIS
Compulsory Courses	Compulsory Courses	Elective Courses	
Specialised Study Package 1	Specialised Study Package 2	Elective Courses	
		Elective Courses	
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## COMPULSORY COURSES

### AUTUMN

Continuum Mechanics for Solids	5 ECTS
Fluid Dynamics	5 ECTS
Optimization Algorithms and Programming -	5 ECTS

### SPRING

Thermodynamics	5 ECTS
Applied Innovation in Engineering	5 ECTS
Mechanical Vibrations	5 ECTS

## SPECIALISED STUDY PACKAGES

Choose two of the specialised study packages

### AUTUMN

#### Structural Mechanics

Beams and Plates	5 ECTS
Finite Element Method	5 ECTS
Nonlinear Materials	5 ECTS

#### Robotics

Robotics	5 ECTS
Control and Sensor Technology	10 ECTS

#### Rotary and Thermo Machinery

Heat Transfer	5 ECTS
Turbo Machinery	5 ECTS
Wind Energy	5 ECTS

#### Renewable Energy

Renewable Energy Technology	5 ECTS
Renewable Energy Systems	5 ECTS
Solar Energy	5 ECTS

### SPRING

#### Dynamics

Computational Dynamics	5 ECTS
Dynamic Systems with Applications	10 ECTS

#### Fracture and Composites

Fracture Mechanics	10 ECTS
Mechanics of Composite Materials	5 ECTS

#### Thermo Machinery

Thermodynamics and Heat Transfer	10 ECTS
Turbo Machinery and Compressible Fluids	5 ECTS

#### Fluid Dynamics

Computational Fluid Dynamics	5 ECTS
Fluid Dynamics and Turbulence	10 ECTS

## ELECTIVE COURSES

Choose courses from the specialised study packages or other courses at the Department of Engineering and the broader Faculty of Science, subject to approval by the study programme manager.

AU Course Catalogue: [kursuskatalog.au.dk/en/](https://kursuskatalog.au.dk/en/)



# MSC IN ENGINEERING – TECHNOLOGY BASED BUSINESS DEVELOPMENT\*

PROBLEM-SOLVING IN A REAL-LIFE CONTEXT



Businesses today face issues of rapid innovation and change that have led to increased demand for graduates with a thorough understanding of engineering practices and new support technologies for engineering management and business model innovation. On the MSc in Technology-Based Business Development you will learn to collect, generate, understand, and assess new technological knowledge, new business opportunities, and new central technologies for companies' operating models.

## PROBLEM-SOLVING IN A REAL-LIFE CONTEXT

During the first and second semesters, the MSc programme applies theories, models, and concepts to real-life problems. These first two semesters give you the opportunity to work on assignments that originate with a company and may also be carried out within the same context. In the third and fourth semesters, students can intensify their engagement with a company so that most of their credits are gained in the corporate environment. The company could also be the student's own start-up company within the framework of our business incubator.

## QUALITY TEACHING IN AN INFORMAL SETTING

The MSc in Technology-Based Business Development is dedicated to the highest-quality teaching in an informal and egalitarian learning environment. Teaching is conducted as a combination of traditional lectures, teamwork, individual study, and empirical investigations using observations, measurements, and interviews. Collaborating in small groups on projects gives students the chance to make the most of the international student environment.

## CAREERS

Graduates will work between innovations and operations to ensure positive relations between new and existing company business areas. The Technology-Based Business Development programme is an excellent foundation for a career as an innovation facilitator, operations specialist, technical sales manager, product manager, business developer, or R&D project manager.



## PLACE OF STUDY

Herning

## ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE

Others: EUR 14,500

## WWW

[masters.au.dk/technologybasedbusinessdevelopment/](https://masters.au.dk/technologybasedbusinessdevelopment/)



SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

# MSC IN ENGINEERING – TECHNOLOGY BASED BUSINESS DEVELOPMENT\*

PROBLEM-SOLVING IN A REAL-LIFE CONTEXT

1 <sup>ST</sup> SEMESTER	2 <sup>ND</sup> SEMESTER	3 <sup>RD</sup> SEMESTER	4 <sup>TH</sup> SEMESTER
Management of Technology	Technological Business Model Innovation		
People and Technology in Organisations	Optimisation of Engineering Processes Using Numerical Approaches	Electives	THESIS
Advanced operations Management	Technology Specialisation 2		
Technology Specialisation I			
30 ECTS	30 ECTS	30 ECTS	30 ECTS

## AARHUS BSS

Aarhus BSS (School of Business and Social Sciences) is one of Aarhus University's four faculties. With approximately 13,000 full-time students, several thousand part-time students, more than two hundred PhD students and nearly six hundred faculty members, Aarhus BSS ranks among the largest business schools in Europe and is Denmark's biggest business and social sciences unit at university level. Building on its broad academic base, it encompasses both traditional business and social science disciplines. Aarhus BSS holds the distinguished AACSB, AMBA and EQUIS accreditations and is thus a triple-crown business school.

## LEARNING IN AN INTERNATIONAL CONTEXT

At Aarhus BSS, we conduct research and teaching at the highest academic level. We are dedicated to imparting to our students exactly the knowledge, skills, and experience that are in demand – the skills that are essential for engaging in professional business activities in a global marketplace.

Our broad scope enables us to attract researchers, lecturers, and students from all over the world. With their help, we have built an international environment in which academic and cultural views are exchanged, experiences gathered, and friendships formed.

Our students are encouraged to take a semester abroad at one of Aarhus BSS's approximately three hundred partner universities around the world. Studying abroad is an excellent opportunity for you to expand your horizon academically, culturally and personally, and for you to acquire valuable international experience and qualifications that are in high demand in companies and organisations everywhere.



## PLACE OF STUDY

Herning

## ANNUAL TUITION FEE

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SCHOOL OF BUSINESS AND SOCIAL SCIENCES  
AARHUS UNIVERSITY

international.au.dk



AARHUS UNIVERSITY

