General Information
- The Sahlgrenska Academy at the University of Gothenburg -
The Academic year 2008/2009
Preface

The Sahlgrenska Academy is an international faculty. In many fields, research at the Academy is among the highest ranking internationally for example in pharmacology, obesity, children’s health, odontology and cardiovascular disease.

The strategic work for internationalisation at the faculty is headed by the internationalisation committee. Each institute and programme has one teacher/coordinator in charge of the internationalisation process. The aim is to create numerous international possibilities for international development for students, teachers and researchers at the Academy.

Health Sciences consist of medical, odontological and pharmaceutical science, as well as health care and public health, but the whole of this area is greater than the sum of its parts. Not only are the individual disciplines of interest, but also the opportunity to develop a new science characterized by depth and interdisciplinary synergy, which is unique to the Sahlgrenska Academy.

Niclas Sahlgren (1701-1776)

Niclas Sahlgren was born in Gothenburg. He spent his late teens and early twenties in Holland, France, England and Germany, before returning to Gothenburg in 1729, where he worked as a wholesaler. Four years later, he was appointed director of the Swedish East India Company, a position he held for more than thirty years. Niclas Sahlgren became a rich man and donated large sums of money – as well as real estate – to a hospital in Gothenburg, among others. This hospital became known as Sahlgren’s Hospital – or Sahlgrenska University Hospital, as it is known today.
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The Sahlgrenska Academy
General Information 2008/2009
www.sahlgrenska.gu.se
The City of Gothenburg

Gothenburg, Sweden’s second largest city with 500,000 inhabitants is situated on the west coast of Sweden. The city is almost equidistant from Copenhagen, Stockholm and Oslo, the Scandinavian capitals.

While not an old city, only slightly more than 350 years old, Gothenburg can be traced back to the early middle ages. The city had already had four different locations, the first one probably during the 10th century, about 25 miles up the Göta River. King Gustav II Adolf granted the “Great Letters Patent” to Gothenburg in the year 1621. He wanted to open up a “window” to the rest of the world. The layout and architecture of Gothenburg shows great influence from abroad. The city is reminiscent of Amsterdam, with canals and fortifications. The city centre is surrounded by canals, built in the 17th century. The moat and two forts are all that remain of the original fortifications. Due to increasing traffic, many of these canals have been drained and filled in and now serve as wide main streets in the city centre.

From the very beginning, trade in lumber and iron constituted the new city’s main source of income. The city held a monopoly on the export of all iron produced by Nordic foundries. Gothenburg’s first golden age began when the iron works of Värmland, a province north of the city, started to flourish. Next came a prosperous period of fishing. In 1731, Sweden’s gateway to China opened. The Swedish East India Company began trading with the eastern part of the world. It was founded in 1731 and contributed greatly towards improving the welfare of Gothenburg during the 18th century and the wealthy aristocracy of merchants who were to have a profound influence on the business and cultural life of the city. The numerous donations made by some of these highly civic-minded families have given Gothenburg the name “The City of Donations”.

Gothenburg developed rapidly into an important centre of commerce and shipping. Today it is the foremost maritime city in the Nordic countries. A significant proportion of Swedish exports and imports pass through Gothenburg. The city has the largest and best-equipped port in Scandinavia. The development of the port of Gothenburg into one of international importance started at the beginning of this century, when the first transoceanic shipping line opened. Developments in shipping and cargo handling techniques have resulted in a marked change in the port which nowadays is characterized by modern container and roll on - roll off traffic.

Nowadays, the city is industrial and well-known for its expertise, two universities and many service companies. Several of the most renewed industrial concerns in Scandinavia originate in Gothenburg; such as Volvo, SKF, and Hasselblad. In recent years the growth of research and expertise-intensive, high-technology companies has increased rapidly and many world famous companies such as Saab Ericsson Space, Astra Zeneca, Nobel Biocare and Ericsson Microwave Systems are located in Gothenburg.
Gothenburg is also an important conference venue and hosts a large number of international events every year.

Gothenburg is also well-known for its lovely parks and its beautiful archipelago and coastline. There are also forests and inland lakes within the Gothenburg area. The city has a wealth of cultural activities; music, dance, art and theatre. The Opera house is located close to the harbour and the coastline in the city centre. At the top of one of the main streets, Kungsportsavenyn, you will find a concert hall (housing the national Orchestra of Sweden), the city theatre and library as well as art museums. There are a number of different cinema centres in the city, large cinema complexes have been built in the last few years. The City of Gothenburg has a very active cultural life with its university, symphony orchestra, theatres, museums and art galleries. The city’s location between the sea and the forest and its mild climate allow its inhabitants to enjoy all sorts of recreational activities.

Please visit: www.goteborg.com

The **Swedish East India Company** was founded in Gothenburg, Sweden, in 1731 for the purpose of conducting trade with the Far East.

*THE DREAM HAS become a reality. The Swedish East Indiaman “Götheborg” is on her voyage on the world’s major seas and oceans. The original East Indiaman “Götheborg” ran aground at the entrance to Gothenburg on 12 September 1745. A marine archaeological excavation lasting from 1986 to 1992 opened the door to a bygone era, adventurous voyages and trade with China.*
University of Gothenburg

University of Gothenburg (Göteborgs universitet)
Erasmus code: S GOTEBO01

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Dean: Professor Pam Fredman

General Description
The University of Gothenburg was founded in 1954, when Gothenburg University College (founded in 1891) and the Gothenburg Medical College merged.

The university underwent rapid expansion in the 1960’s and the 1970’s and, as a consequence of the higher education reform of 1977, eleven previously independent educational institutes, including the Teacher Training College and the School of Fine Arts, were incorporated into the university.

The University of Gothenburg is Sweden’s largest university with approximately 50,000 students. The concentration of its activities in the heart of Gothenburg gives the university its special identity and character.

Faculties and Departments/Institutes
In the Faculties of Arts/Humanities, Fine and Applied Arts, IT University (in collaboration with Chalmers University of Technology), Science, Social Sciences, the Sahlgrenska Academy and the School of Business, Economics and Law, and Education, 57 departments offer approximately 140 programmes, varying in length from two to six years, and more than 1700 courses.

Some programmes are intended to meet permanent educational needs such as the training of teachers, economics and business professionals, lawyers, physicians, etc. Other programmes are offered on the basis of special needs in the region, or because of special knowledge or facilities provided exclusively at the university. Individual programmes, consisting mainly of elective courses (or series of courses), are primarily intended to meet the needs for education outside the general programmes, e.g. continuing education.
In recent years interdisciplinary studies have become increasingly popular. Departments often join together in interdisciplinary research projects, or theme-oriented courses such as international relations, global development and human ecology.

The University Board has the overall responsibility for conducting the University’s affairs, while the Office of the Vice-Chancellor is responsible for the day-to-day administration.

**Staff**

The University has a staff of approximately 5000. This incorporates 457 professors and 2500 academic staff. 88% of all staff work in the departments, 3% are attached to the University Library, 7% to Central Administration, and 2% to Maintenance.

**Students**

At present there are about 50,000 first cycle students and some 2,200 second and third cycle students at the University. At the University there are 750 incoming exchange students (first and second cycle) and 350 outgoing exchange students (first and second cycle) every year.

**Academic Regulations**

Under the provision of the Higher Education Act and Ordinance, Swedish universities have been granted greater autonomy with regard to study programmes. Within the confines of the minimum degree requirements and with the exception of the professional degree programmes as for example at the Sahlgrenska Academy, students are allowed a certain freedom in composing their programmes of study. The Sahlgrenska Academy mainly have set programmes for specific professions.

**Degree Requirements at the University of Gothenburg**

- **University Diploma:**
  120 ECTS-credits, including a thesis in a major subject area.

- **Degree of Bachelor:**
  180 ECTS-credits, of which 90 must be in a major subject area, including a 15-credit thesis.

- **Degree of Master (One additional year):**
  240 ECTS-credits, of which 120 must be in a major subject area, including a 30-credit thesis or two 15-credit theses.

- **Degree of Master (Two additional years):**
  300 ECTS-credits, of which 180 must be in a major subject area, including a 30-credit thesis or two 15-credit theses.

- **Degree of Licentiate:**
  120 ECTS-credits in a major subject area on third cycle including a 60-credit thesis.

- **Degree of Doctor:**
  240 ECTS-credits in a major subject area on third cycle including a 120-credit thesis.
The Sahlgrenska Academy

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The Sahlgrenska Academy in brief

First and second cycle students: 4000
Third cycle students: 1000
Employees: 1500
Researchers/lecturers: 850
Full Professors: 234
Turnover in SEK million: 1775

General Description

The Sahlgrenska Academy is the faculty of health sciences at the University of Gothenburg. Education and research are conducted within the fields of pharmacy, medicine, odontology and health care sciences.

About 4000 undergraduate students and 1000 postgraduate students are enrolled at the Sahlgrenska Academy. Of the 1500 employees, 850 are researchers and/or lecturers.

The Sahlgrenska Academy offers education at first, second and third cycle.

The Sahlgrenska Academy at the University of Gothenburg has a unique breadth in health sciences, consisting of six institutes within medicine, odontology and health care sciences. The fact that these departments are in one and the same academy/faculty enables effective cooperation between different fields.
Institutes at the Sahlgrenska Academy

Institute of Biomedicine  
website: www.biomedicine.gu.se

Institute of Clinical Sciences  
website: www.clinsci.gu.se

Institute of Health and Care Sciences  
website: www.caresci.gu.se

Institute of Medicine  
website: www.medicine.gu.se

Institute of Neuroscience and Physiology  
website: www.neurophys.gu.se

Institute of Odontology  
website: www.odontology.gu.se

The Academy offers 18 study programmes. We educate students to become e.g. medical doctors, dentists, biomedical scientists, nurses, midwives, public health scientists, audiologists, speech therapists, occupational therapists and pharmacists. Several of the Academy’s programmes are among the most popular in Sweden.

Management of the Sahlgrenska Academy

The Sahlgrenska Academy Board is the highest decision-making body of the faculty, and is ultimately responsible for the education and research, and collaboration with external parties, in the field of health sciences at University of Gothenburg. Dr Claes Wilhemsson is Chairman of the Board. Professor Olle Larkö is the Dean of the Faculty. He reports directly to the Vice Chancellor of the university and is the board member responsible for managing the Academy’s activities. Three committees, led by vice-deans, prepare matters for the dean, who delegates part of his decision-making authority. The Dean has appointed heads of the Academy’s six institutes. The heads of institutes collaborate with an institute board.

Staff

Some 1500 people work at the Sahlgrenska Academy. Approximately 60 percent of them are academic staff, while the rest are administrative and technical personnel, mainly laboratory and secretarial staff. The most senior academics are the full professors, followed by the senior lecturers (assistant professors). About 80% of the professors and 40% of the lecturers are male.

Finances

The total budget of the Sahlgrenska Academy for 2006 was SEK 1775 millions, more than half of which was public funding.

Education

The Sahlgrenska Academy offers students 18 different study programmes. A study programme is a complete educational programme leading to a degree. Most programmes are profession oriented, while some are more general.
There about 4000 undergraduate students and 1000 postgraduate students enrolled at the Academy. During the year 2006 close to 1000 students obtained a professional degree. Over 100 postgraduate degrees are also awarded every year.

**Research at the Sahlgrenska Academy**

Research at the Sahlgrenska Academy is among the highest ranking internationally especially in fields such as pharmacology, specialist dental care, obesity, paediatrics and cardiovascular disorders. The researchers at the Academy work closely with the Sahlgrenska University Hospital.

The Sahlgrenska Academy covers an impressive range of research; basic studies of the structure of molecular structure and cellular functions, experimental studies of the principles of disease, public health sciences and epidemiology. A substantial part of the research at the Academy is at the forefront worldwide.

Gothenburg is well-reputed from its achievements in several areas of health sciences. In 2000 Professor Arvid Carlsson was awarded the Nobel Prize in medicine/physiology for his research on Dopamine. Research findings at the Academy have been the basis for several successful pharmaceuticals. One of them is the gastrointestinal product Losec from AstraZeneca.

The Collaboration between the Institute of Odontology and the Sahlgrenska University Hospital provides a cornerstone for advanced research within several areas of specialist dental care such as: Oral and Maxillofacial Surgery, Jaw-Orthopedic Stomatognathic Physiology, and the Brånemark’s system.

Health Care Sciences is a new research area at the Academy and research in this field will be important for the development of health care in Sweden and world-wide. Health Care Sciences aim to find methods to quantify subjective experiences of for example, pain and anxiety. Fields of particular interest are symptoms in different types of illness, intensive care, and care training. In the latter, communication between care staff and patient is an important field of study.

Within the pharmaceutical research the collaboration with the Sahlgrenska University Hospital is crucial. The Academy and the University Hospital are at present conducting nearly 300 joint research projects. Strong research areas are obesity with cardiovascular research and diabetes, biomaterials, pharmacology, neurosciences, paediatrics, epidemiology, rheumatology and microbiology.
Level of Studies

First, second and third cycle studies at the Sahlgrenska Academy

In accordance with the Bologna system, we use the terminology first, second and third cycle to name the different levels of studies at the Sahlgrenska Academy.

- First cycle: Undergraduate studies/Bachelor’s degree
- Second cycle: Graduate studies/advanced level/Master’s degree
- Third cycle: Postgraduate studies/doctorate degree/PhD-level

Undergraduate studies at the Sahlgrenska Academy, first cycle

A study programme is a complete educational programme leading to a degree. Some programmes, such as those in medicine and pharmacy, are profession oriented, while others are more general. Programmes vary in length and contain a stipulated number of courses. Each degree programme and the length of each course is standardised in terms of a credit system. A term is normally 20 weeks long, and is worth 30 ECTS-credits.

Admission to all undergraduate programmes at the University of Gothenburg is restricted. The number of students admitted to the various programmes is established annually by the University and the relevant faculties. Admission is competitive as there are normally more applicants than available places. Applicants are selected on the basis of average grades obtained in three-year High school programmes or scores obtained in the Swedish University Admission Test.

Graduate Programmes, second cycle

Admission to graduate programs is restricted. In order to be admitted, the student must have completed his or her first degree and passed an advanced undergraduate level in the subject he or she intends to study at graduate level.

Postgraduate studies at the Sahlgrenska Academy, third cycle

The Sahlgrenska Academy offers doctorate programmes leading to a PhD degree in three main fields: Medicine, Odontology and Health Care Sciences. In each field a large number of different research profiles are possible. The minimum time required for a PhD degree is four years of full-time study, this comprises study courses and a thesis.

Postgraduate studies at the Sahlgrenska Academy aim at training postgraduate students in the area of health care sciences to meet the needs of society, with high general expertise and top-level scientific expertise. Postgraduate students at the Sahlgrenska Academy must develop critical thinking, creativity, a search for knowledge, aptitude and independence in the various aspects of research activity.

Postgraduate studies for the degree of doctor are equivalent to 240 ECTS credits and consist of writing a scientific thesis and attending postgraduate courses comprising at least 30 ECTS credits.

www.sahlgrenska.gu.se/english/education/postgraduate
International cooperation

Student exchange programmes
An exchange student is a student from a university abroad, who studies at the University of Gothenburg for a maximum of one academic year.

Exchange students will be admitted to courses at the Sahlgrenska Academy under the auspices of a formal exchange agreement between the student’s home institute and the Academy or some other negotiated exchange scheme. The selection of visiting students is at the home university’s discretion.

The Sahlgrenska Academy participates in a number of cooperative agreements with partner institutes all over the world. These agreements allow for student exchange in both directions. For further information, please contact the international coordinators at the Sahlgrenska Academy:

The International Coordinators at the Sahlgrenska Academy perform the functions of establishing and maintaining links with partner universities, coordinating negotiations to establish formal exchange agreements, and ensuring a smooth process for receiving and sending students and faculty on exchange.

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The International Desk at the Sahlgrenska Academy
The International desk for both Swedish and international students is located on campus.
Address: Medicinaregatan 3

Opening hours: Tuesdays 13.00 - 16.00, Fridays 10.30 – 12.30,
Tuesdays by appointment 16.00 – 17.00.

Email: international@sahlgrenska.gu.se

Exchange programmes
Most study programmes have signed exchange agreements within the following networks:
Nordplus (the Nordic countries)
Socrates/Erasmus (the countries within the EU)
Linnaeus-Palme (developing countries, defined by the OECD)
or as Bilateral agreements
International Coordinators at the Sahlgrenska Academy
Each undergraduate programme at the Sahlgrenska Academy has its own agreements.

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Speech Pathology and Therapy
Karin Wahl karin.wahl@neuro.gu.se
Exchange agreements at the Sahlgrenska Academy
The Sahlgrenska Academy is involved in a number of cooperative schemes around the world:

**Australia**
Adelaide – University of Adelaide
Brisbane/Gold Coast – Bond University

**Austria**
Wien – Medizinische Universität

**Belgium**
Antwerpen – Lessius Hogeschool
Gent – Artevelde Hogeschool
Gent – Universiteit Gent

**Chile**
Santiago – Universidad Mayor

**Costa Rica**
San José – Universidad de Costa Rica

**Czech Republic**
Praha/Hradec Královo – Univerzita Karlova v Praze

**Denmark**
København – Københavns Universitet
København – Danmarks Farmaceutiska Universitet
Odense – Syddansk Universitet
Viborg – VIA University College
Århus – Aarhus Universitet

**Finland**
Helsinki – Arcada - Nylands Svenska Yrkeshögskola
Helsinki – Helsingin Ammattikorkeakoulu Stadia
Helsinki – Helsingin Yliopisto
Kuopio – Kuopion Yliopisto
Oulu – Oulun Yliopisto
Tampere – Tampereen Yliopisto
Turku – Turun Yliopisto
Vaasa – Svenska Yrkeshögskolan

**France**
Lille – Université Catholique de Lille
Lyon – Université Claude Bernard Lyon 1
Paris – Université Rene Descartes - Paris 5
Strasbourg – Université Louis Pasteur

Germany
Aachen – Rheinisch-Westfälische Technische Hochschule Aachen
Berlin – Freie Universität Berlin
Düsseldorf – Heinrich-Heine-Universität Düsseldorf
Freiburg – Albert-Ludwigs-Universität Freiburg im Breisgau
Kiel – Fachhochschule Kiel
Osnabrück – Fachhochschule Osnabrück

Greece
Athina v Ethniko Kai Kapodistriako Panepistimio Athinon
Thessaloniki – Aristoteleio Panepistimio Thessalonikis

Hungary
Pécs – Szegedi Tudományegyetem

Iceland
Reykjavik – Háskóli Íslands

Italy
Padova – Universitá degli Studi di Padova
Pavia – Università degli Studi di Pavia
Udine – Università degli Studi di Udine
Amman – University of Amman

Japan
Tokyo – University of Tokyo

Jordan
Amman – University of Amman

Latvia
Liepaja – Liepaja Medical College

Lithuania
Klaipeda – Klaipeda College

Malta
Msida – Università Ta’ Malta

Nepal
Kathmandu – Tribhuvan University

The Netherlands
Amsterdam – Vrije Universiteit Amsterdam
Eindhoven – Fontys Hogescholen
Groningen – Hanzehogeschool Groningen
Groningen – Rijksuniversiteit Groningen (RuG)
Maastricht – Universiteit Maastricht
Nijmegen – Radboud Universiteit Nijmegen

**New Zealand**
Auckland – Auckland University of Technology
Auckland – Unitec

**Norway**
Bergen – Universitetet i Bergen
Oslo – Høgskolen i Oslo
Oslo – Universitetet i Oslo
Tromso – Universitetet i Tromsø
Trondheim – Høgskolen i Sør-Trøndelag
Trondheim – Norges Teknisk-Naturvitenskapelige Universitet

**Slovenia**
Ljubljana – Univerza v Ljubljani

**South Africa**
Port Elizabeth – Nelson Mandela Metropolitan University

**Spain**
Almería – Universidad de Almería
Barcelona – Universitat Autònoma de Barcelona
Reus (Tarragona) – Universitat Rovira i Virgili
Valladolid – Universidad de Valladolid
Zaragoza – Universidad de Zaragoza

**Tanzania**
Dar Es Salam – Muhimbili University College of Health Sciences

**United Kingdom**
Brighton – University of Brighton
London – University of East London
London – Brunel University of West London
Nottingham – The University of Nottingham
Worcester – University of Worcester

**United States**
Ann Arbor – University of Michigan
Baltimore – Johns Hopkins University
Minneapolis – University of Minnesota, Twin Cities
New York City – Columbia University
Farmingdale – State University of New York

**Vietnam**
Hanoi – Hanoi Medical University
Hanoi – Hanoi University of Pharmacy
### Exchange agreements at the University of Gothenburg

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<td>University of Cape Coast, Ghana</td>
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<td>University of KwaZulu-Natal in Durban, South Africa</td>
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<td>University of Dar es Salaam, Tanzania</td>
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<tbody>
<tr>
<td>Chinese University of Hong Kong, China</td>
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<tr>
<td>Fudan University, Shanghai, China</td>
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<tr>
<td>Osaka Prefectural University, Osaka, Japan</td>
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<tr>
<td>Waseda University, Tokyo, Japan</td>
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<tr>
<td>Hokkaido Tokai University, Sapporo, Japan</td>
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<tr>
<td>Keio University, Tokyo, Japan</td>
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<td>Tokyo Gakugei University, Tokyo, Japan</td>
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<td>Osaka University, Osaka, Japan</td>
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<tr>
<td>Kochi University, Japan</td>
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<tr>
<td>Universiti Sains Malaysia, Penang, Malaysia</td>
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<tr>
<td>Universiti Kebangsaan Malaysia, Selangor, Malaysia</td>
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<tr>
<td>National University of Singapore, Singapore</td>
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<tr>
<td>Thammasat University, Bangkok, Thailand</td>
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<table>
<thead>
<tr>
<th>AUSTRALIA</th>
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<tbody>
<tr>
<td>Griffith University, Brisbane</td>
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<tr>
<td>University of Queensland, Brisbane</td>
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<tr>
<td>La Trobe University, Melbourne</td>
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<td>University of Newcastle, Newcastle</td>
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<td>Victoria University, Melbourne</td>
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<td>Edith Cowan University, Perth</td>
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<thead>
<tr>
<th>LATIN AMERICA</th>
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<tbody>
<tr>
<td>Universidad de Concepción, Chile</td>
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<tr>
<td>Universidad de República, Uruguay</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>NORTH AMERICA</th>
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</thead>
<tbody>
<tr>
<td>State University of New York at Albany, USA</td>
<td></td>
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<tr>
<td>University of California at Berkeley, USA</td>
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<tr>
<td>California State University at Sacramento, USA</td>
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<tr>
<td>University of Washington, Seattle, USA</td>
<td></td>
</tr>
<tr>
<td>University of North Carolina at Wilmington, Wilmington, USA</td>
<td></td>
</tr>
<tr>
<td>The CREPUQ-network in Quebec, Canada (Conférence des Recteurs et des Principaux de Universités de Québec)</td>
<td></td>
</tr>
</tbody>
</table>
Clinical rotations and placements

The Sahlgrenska Academy can only offer clinical rotations and placements to students from partner universities (foreign universities with which we have signed formal exchange agreements).

Medical students - IFMSA (International Federation of Medical Students Association)

You may also find a clinical rotation through your national branch of the International Federation of Medical Students’ Associations.

IFMSA General Secretariat
c/o World Medical Association
B.P. 63
F-01212 Ferney-Voltaire cedex
France

Tel: +33 450 404759
Fax: +33 450 405937
E-mail: gs@ifmsa.org
Website: www.ifmsa.org

You can also contact the National Board of Health and Welfare in Stockholm for an overview of Swedish hospitals.

The National Board of Health and Welfare
106 30 Stockholm
Sweden

Tel: +46 8 555 530 00
Fax: +46 8 555 532 52
E-mail: socialstyrelsen@sos.se
Website: www.sos.se/sosmenye.htm

Please note: The Sahlgrenska Academy can not sign certificates of completed clerkships at one of the hospitals in the region.

Pharmacy students – IPSF (International Pharmaceutical Students’ Federation)

IPSF Student Exchange Program
International student placement exchange; 1 – 3 months at Pharmacies, Hospital Pharmacies, research groups at universities or in industry.

Email: sep@snaps-online.se
Website: www.ipsf.org/SEP.php

For students in other programmes:
Please contact the international coordinator for each individual programme, please see page14.
Specialist training

Medicine
A residency (specialist training) in Sweden, means working in a hospital under the supervision of fully-qualified professionals. It lasts for at least five years, and comprises training in the speciality area and other relevant fields.

In Sweden, the continued clinical training of medical doctors towards specialist competence is the responsibility of the public health authorities, i.e. the county councils and the major cities, not the universities. There are no courses at the Swedish medical schools or teaching hospitals leading to the qualification as a specialist.

Residencies in Sweden are extremely limited in number and very difficult to obtain. Fluency in Swedish is also required.

For further information, please contact the National Board of Health and Welfare, at the address below.

The National Board of Health and Welfare
SE-106 30 Stockholm, Sweden
Tel +46 8 555 530 00
Fax +46 8 555 532 52
E-mail socialstyrelsen@sos.se
Website www.sos.se/sosmenye.htm

Odontology
The Institute of Odontology (dentistry) at the Sahlgrenska Academy at the University of Gothenburg offers, in collaboration with the Public Dental Service in the city of Gothenburg, Post-graduate programmes (certificate programmes) in the following areas:

- Endodontics (Two Years)
- Orthodontics (Three Years)
- Periodontics (Three Years)

Specialist Nursing
The Institute of Health and Care Sciences, offers programmes in specialist nursing: 60 - 75 ECTS credits. The programmes are taught in Swedish. Specialist nurse is a regulated profession in Sweden

- Anesthetic care, 60 ECTS credits
- District nurse, 75 ECTS credits
- Healthcare for children and adolescents, 60 ECTS credits
- Care in internal medicine, 60 ECTS credits
- Surgical care, 60 ECTS credits
- Oncological care, 60 ECTS credits
- Operation care, 60 ECTS credits
- Psychiatric care, 60 ECTS credits
- Care of the elderly, 60 ECTS credits
- Intensive care, 60 ECTS credits
The Sahlgrenska International Care AB
Sahlgrenska International Care AB handles all administrative procedures related to the international postgraduate training programmes such as admission, financing, housing assistance etc.
For further information and application form, please contact:

Sahlgrenska International Care AB
Medicinaregatan 12C
SE-413 90 Göteborg
Sweden

Telephone: +46 31 342 68 00
Fax: +46 31 13 26 25
E-mail: info@sahlgrenska-international.com
Website: www.sahlgrenska-international.com

Information regarding higher education in Sweden:
The Swedish National Agency for Higher Education
Swedish National Agency for Higher Education (Högskoleverket) has been commissioned to act as the Swedish ENIC/NARIC. The ENIC/NARIC office provides information on education in Sweden.

Address: The Swedish National Agency for Higher Education (Högskoleverket)
P.O Box 7851
SE-103 99 Stockholm

Tel. + 46 8 563 085 00
Fax + 46 8 563 086 50

Website: www.hsv.se
Academic Calendar
The 2008/09 academic year is divided into two terms:

**Autumn term**: 1st September 1 – 18th January
Medical students: Please contact the international coordinators for information.

**Spring term**: 19th January - 7th June
Medical students: Please contact the international coordinators for information

Classes are normally scheduled throughout the term without breaks. There is no break between the autumn and the spring term.

Visiting students may take up to 30 ECTS-credits per term (Swedish Language Course not included).

Application deadlines and important dates for exchange students

**Autumn term 2008:**
- Application deadline: 15th April
- Accommodation application deadline: 20th May
- Language course registration deadline: 31st May
- Arrival service/arrival day: 21st August
- Welcome programme: Week commencing: 35
- Welcome reception at the Sahlgrenska Academy: 15th September

**Spring term 2009:**
- Application deadline: 15th October
- Accommodation application deadline: 15th November
- Language course registration deadline: 15th November
- Arrival service/arrival day: 17th January
- Welcome programme: Week commencing: 4

Language of Instruction
The Academy’s official language of instruction is Swedish.

Admission of Exchange Students
Provided immigration and health insurance requirements are met, the following admission procedure applies for undergraduate courses:

Exchange students will be admitted to courses at the Sahlgrenska Academy under the auspices of a formal exchange agreement between the student’s home institute and the Academy, or some other negotiated exchange scheme. The selection of visiting students is at the home institute’s discretion. **Applications must be received before the set deadline.**
Exchange students have to return a registration form and learning agreement before their arrival at the Academy. Please note that exchange students have not been accepted until the international coordinator at the home institute has received an acceptance of your study plan from the Sahlgrenska Academy. You will receive a Letter of Acceptance, which should accompany you to Sweden.

Registration of exchange students

An individual programme of study consisting of specific courses will normally have been established through the admission procedure in accordance with the course selection made by the visiting student or specified by the exchange coordinator at the student’s home institute. In order to earn credits, each exchange student must be registered on the courses included in his/her study programme. Registration for courses will take place after arrival at the Sahlgrenska Academy.

Immigration Regulations

Immigration Regulations for EU and EEA Citizens

The exchange student must be in possession of a valid passport, or other proof of citizenship. If the planned stay in Sweden is longer than three months, a residence permit must be obtained from the Swedish embassy in the student’s home country, or from the Immigration Section of the Gothenburg Police Department.

To obtain a residence permit, the following is required:
A valid passport, ID card or other proof of citizenship, a letter of acceptance from the Academy, confirming the student’s status as an exchange student, proof of means of support (cash, bank deposits, or parental guarantee), and comprehensive health insurance.

Immigration Regulations for non-EU and non-EEA Citizens

The visiting student must be in possession of a valid passport and a student visa. Visa applications should be made directly to the Swedish embassy in the student’s home country, and must be accompanied by a letter of acceptance from the Academy, or the University.

For more information:
National Police Board, information on passports, identity cards, border controls.
Telephone: +46 8 401 90 00, Website: www.polisen.se

Swedish Migration Board, information on visas, residence permits, alien’s passports,
Telephone: +46 31 774 61 00
Website: www.migrationsverket.se

Health Insurance Requirements

As an EU/EEA citizen you are entitled to medical benefits if you need emergency treatment. The benefits are subject to the same conditions as for Swedish citizens, which mean that you pay the applicable patient fees.

Citizens from non-EU/EEA countries may be entitled to medical benefits if Sweden has entered into an agreement (convention) with that country. The social insurance office in your home country will provide information about relevant health insurance agreements. Make sure to contact them well before departure and ask for the certificates you need.
The University of Gothenburg has insurance covering its international exchange students, called “The Swedish State’s Insurance for International Students in Sweden”. For more information: www.kammarkollegiet.se

Teaching
The mode of instruction may vary from large scale lectures to individual tutorials, including lab sessions, seminars, clinical rotations or work in smaller groups. Most programmes at the Academy include compulsory placement periods.

It should be noted that Swedish students are obliged to conduct a substantial part of individual work in addition to the scheduled time at the Academy. The individual work involves a large amount of personal responsibility for the student.

Assessment and Examinations
All courses include continuous and/or final assessment of student performance. Normally the assessment is accomplished through one or more written or oral examinations during, or at the conclusion of a course. As a result of the assessment, the student will be awarded one of two possible grades; pass or fail for each course in accordance with the principles outlined. There are no final examinations covering entire degree programmes, or parts thereof.

Credits
The credit system referred to in this publication is based on the principles used in the ECTS (European Credit Transfer System). The credit base takes into account the total activity of the student, in terms of lectures, laboratory practicals, clinical rotations or other classroom work, examinations, and personal work. One credit represents, for the average student, a minimum of 40 hours spread across the various activities. Full-time students normally take 30 credits each term. In order to earn credits, the student must obtain a pass grade (see below).

Grades
Swedish students are awarded two pass grades: Godkänd (G), or Pass, and Väl Godkänd (VG), or Pass with distinction. A grade of Underkänd (U) or Fail is awarded when the exam result is too weak, no credits are earned. Most students at the Sahlgrenska Academy are awarded a pass grade or a fail grade. Students who have failed an examination will, in most cases, be allowed to take supplementary examinations. Upon request, visiting students can be awarded grades in accordance with the ECTS system, as shown below.

How the University of Gothenburg applies the ECTS Grade Interpretation Scheme
The University of Gothenburg uses a criterion-referenced grading system, based on learning outcomes, with a three-grade scale, grades Pass with Distinction, Pass, and Fail, as a principal rule. For some programmes and courses a two-grade scale is applied, grades Pass and Fail. The scale used for each course is established in the syllabus and is marked on the transcript of record and degree certificate with a footnote.

The so called ECTS (European Credit Transfer and Accumulation System) grading scale was developed for the Erasmus programme and is used internationally as an instrument for translation to facilitate the comparison of different international grading systems. Students studying abroad within certain exchange programmes get ECTS grades directly. The seven-grade ECTS scale is norm-referenced with the purpose to rank, on the basis of statistics, students in relation to others who have taken the same course or programme.
Thus, unlike grades in a criterion-based system, the ECTS grades do not give any information about how well the student has succeeded in reaching the goals for the course or programme. In order to emphasize the fact that the ECTS grading scale is not intended as a generally applied international grading scale but rather as an instrument for comparison of different national grading systems, it is, as from the 2007 edition of “ECTS Users’ Guide”, renamed ECTS Grade Interpretation Scheme (EGIS) and is no longer a key feature of the ECTS.

The differences between the criterion-referenced system that the University of Gothenburg uses and the norm-referenced ECTS grading system make a translation from the one system to the other inevitably misleading. However, in order to contribute to the understanding of its own grades, the University of Gothenburg has established a set model for translation of the grades to their approximate equivalents in the EGIS scale. The model is based on statistics of the number of students at the University of Gothenburg who have achieved the different grades (there are no statistics for the grade Fail).

<table>
<thead>
<tr>
<th>Two-grade scale</th>
<th>Three-grade scale</th>
<th>EGIS (% of successful students normally achieving the grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass</td>
<td>Pass with Distinction</td>
<td>A 10 %</td>
</tr>
<tr>
<td></td>
<td>Pass</td>
<td>B 25 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C 30 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D 25 %</td>
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<td></td>
<td></td>
<td>E 10 %</td>
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<tr>
<td>Fail</td>
<td>Fail</td>
<td>FX --</td>
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</tbody>
</table>

**Transcript of Student Record**

Upon completion of the individual study programme, the International Coordinators will issue a transcript of record, listing all courses in which the student has been registered, credits earned, and course grades obtained.

The transcript will be forwarded to the student. A copy of the transcript may, if requested, be issued to the student’s exchange coordinator at his/her home institute.

**How to apply for undergraduate studies at the University of Gothenburg**

The majority of undergraduate programmes and courses at the University of Gothenburg are conducted in Swedish. The Department of Swedish Language offers courses in Swedish for beginners. You can get further information directly from the Department of Swedish Language: http://hum.gu.se/en/departments/swedish

Students with a good command of Swedish are welcome to apply through the regular application procedure. You must then prove that your knowledge in Swedish is sufficient;

either by passing the Swedish Language Test for university studies, TISUS, which is also arranged abroad during the spring of each year, contact the University of Stockholm, Department of Nordic Languages www.nordiska.su.se/tisus.htm;

or by certification of your education in Swedish proving that you have sufficient knowledge of the Swedish language, written and oral.
Closing dates for applications following the regular application procedure are April 15 for studies beginning around September 1st of the same year and October 15 for studies beginning in the middle of January of the following year.

Application forms are available about a month in advance of these dates and application is filled in on-line at https://www.studera.nu/

The academic year in Sweden runs from the beginning of September to the middle of January and from the middle of January to the beginning of June. Tuition at Swedish universities is free of charge. The University of Gothenburg provides no grants or scholarships for visiting students. For questions regarding your qualifications and merit-evaluation, please contact:

**Verket för högskoleservice(VHS)**
P. O Box 101 03
SE-121 28 Stockholm
Sweden
www.vhs.se
Programme descriptions and courses offered in English for exchange students

Study Programmes - Medicine

Audiology
Biomedical Laboratory Science
Dietetics
Medical Physicist
Medicine
Occupational Therapy
Physiotherapy
Public Health Science
Speech Pathology and Therapy

Programme in Audiology

180 ECTS credits - taught in Swedish

This programme provides the basic knowledge and skills needed to work in audiological diagnostics and rehabilitation of hearing impairments.

Special entrance requirements: upper secondary studies in Mathematics, Social Studies, Physics, Chemistry, Biology.

Degree: Degree of Bachelor of Science in Audiology (Audionomexamen).

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

Courses offered in English:

Early Communication Development and disorders
ECTS credits: 7, 5
Cycle: second

The course Early Communication Development and disorders; assessment and intervention for infants with hearing impairment, is a single subject course.

This course reviews in depth the early communication in children 0-3 years of age. Normal development of auditory, speech, and language will be outlined and the specific impact of hearing impairment on early communication skills. Early intervention options and theories behind the various options will be outlined. Current Swedish practices will be reviewed and compared to international practices.
To be eligible for the course “Early communication development and disorders: assessment and intervention for infants with hearing impairment” the equivalent of Degree of Bachelor of Science in Audiology or 180 ECTS credits in the Speech Pathology and Therapy programme is required.

**Programme in Biomedical Laboratory Science**

180 ECTS credits - taught in Swedish

This programme prepares the students for work in specialised laboratories and clinics associated with health and medical care services. Biomedical scientists perform analyses and examinations of body fluids and various tissues used in the diagnosis and treatment of disease as well as physiological examinations of patients. The programme also prepares the students for a career in research at medical and biomedical institutes. Careers may also be offered in pharmaceutical, biotechnological and food industries.

**Special entrance requirements:** upper secondary studies in Mathematics, Physics, Chemistry, Biology.

**Degree:** Bachelor of Science in Biomedical Laboratory Science (Biomedicinsk analytikerexamen).

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).
Programme overview:

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Anatomy and Physiology, 15 ECTS</th>
<th>BML: Basic Laboratory Science, 7,5 ECTS</th>
<th>Scientific Methods and Statistics, 7,5 ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 2</td>
<td>Chemistry and Biochemistry, 7,5 ECTS</td>
<td>Pharmacology, 7,5 ECTS</td>
<td>Morphological Cell Biology, 7,5 ECTS</td>
</tr>
<tr>
<td>Term 3</td>
<td>Histological Techniques and Cell Culture, 7,5 ECTS</td>
<td>Medical Biochemistry, 7,5 ECTS</td>
<td>Biochemical and Clinical Chemical Methodology, 7,5 ECTS</td>
</tr>
<tr>
<td>Term 4</td>
<td>Microbiological and Immunological Techniques, 7,5 ECTS</td>
<td>Molecular Biology, 7,5 ECTS</td>
<td>Methodology in Molecular Biology, 7,5 ECTS</td>
</tr>
<tr>
<td>Term 5</td>
<td>Methods in Clin. Chem. Haematol &amp; Blood Group Serol, 7,5 ECTS</td>
<td>Applied Laboratory Science (Basic), 15 ECTS</td>
<td>Applied Laboratory Science (Special) I, 7,5 ECTS</td>
</tr>
<tr>
<td>Term 6</td>
<td>Applied Laboratory Science (Special) II, 7,5 ECTS</td>
<td>Lab Animal Science &amp; Techn, 4,5 ECTS</td>
<td>Scientific Methods work org 3 ECTS</td>
</tr>
</tbody>
</table>

**Alternative I : Laboratory Medicine**

- **Term 3**
  - Histological Techniques and Cell Culture, 7,5 ECTS
  - Medical Biochemistry, 7,5 ECTS
  - Biochemical and Clinical Chemical Methodology, 7,5 ECTS
  - Microbiology and Immunology, 7,5 ECTS

- **Term 4**
  - Microbiological and Immunological Techniques, 7,5 ECTS
  - Molecular Biology, 7,5 ECTS
  - Methodology in Molecular Biology, 7,5 ECTS
  - Laboratory Medicine and Pathology, 7,5 ECTS

- **Term 5**
  - Applied Laboratory Science (Basic), 15 ECTS
  - Applied Laboratory Science (Special) I, 7,5 ECTS

- **Term 6**
  - Applied Laboratory Science (Special) II, 7,5 ECTS
  - Lab Animal Science & Techn, 4,5 ECTS
  - Scientific Methods work org 3 ECTS
  - Bachelor's Thesis in Biomedical Laboratory Science, 15 ECTS

**Alternative II : Physiology**

- **Term 3**
  - General Nursing and Drug handling administr., 7,5 ECTS
  - Telemedicine and Image Processing, 7,5 ECTS
  - Radiophysics and Nuclear Medicine, 7,5 ECTS
  - Diagnostic Respiratory Physiology, 7,5 ECTS

- **Term 4**
  - Diagnostic Renal and Gastrointestinal Physiology, 7,5 ECTS
  - Molecular Biology, 7,5 ECTS
  - Methodology in Molecular Biology and Immunology, 15 ECTS
  - Clinical Nursing, 7,5 ECTS

**Courses offered in English:**

- **Applied Laboratory Science (basic laboratory diagnostics)**
  - ECTS credits: 15
  - Cycle: First

- **Applied Laboratory Science (special laboratory diagnostics)**
  - ECTS credits: 15
  - Cycle: First

- **Bachelor thesis in Biomedical Laboratory Science**
  - ECTS credits: 15
  - Cycle: First

- **Master thesis in Biomedical Laboratory Science**
  - ECTS credits: 15
  - Cycle: Second

For further information: Please contact barbro.skoldeberg@biomedlab.gu.se
**Programme in Dietetics**

180 ECTS credits - taught in Swedish

This programme prepares students for work with advisory services and information on nutrition and health. Most dieticians work in hospitals or in convalescent homes with nutritional treatment and preventive health care.

**Special entrance requirements:** upper secondary studies in Mathematics, Biology, Chemistry, Physics, Social Studies.

**Degree:** Degree of Bachelor of Science in Dietetics (Dietistexamen)

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

**Courses offered in English:** None

**Medical Physicist Programme**

300 ECTS credits - taught in Swedish

Programme description: Many methods for therapy and diagnostics in medicine are based on radiation, e.g. x-ray imaging and radiation therapy, and to be beneficial it is important that the radiation doses are carefully controlled. In these issues the medical physicist has a key function as an expert on radiation physics and radiation protection. The study programme includes basic physics and mathematics, followed by more specialised courses in radiation physics. The special types of equipment and methods used in medical radiation applications (for example magnetic resonance imaging, radiation therapy, computed tomography, use of radiopharmaceuticals, gamma camera investigations and x-ray diagnostics) are studied during the programme, which concludes with exam work and practical work under supervision of an experienced medical physicist.

**Special entrance requirements:** upper secondary studies in Mathematics, Biology, Chemistry, Physics, Social Studies.

**Degree:** Degree of Bachelor of Science in Medical Physics

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare.

Admission every autumn term (once a year).

**Courses taught in English:** most courses within the programme can be offered in English upon request.

**For further course information:** [www.radfys.gu.se/utbildning/?contentId=661438](http://www.radfys.gu.se/utbildning/?contentId=661438)
Programme in Medicine

330 ECTS credits - taught in Swedish

This programme prepares the students to work as physicians and in medical research. In order to become a registered physician in Sweden, it is necessary to complete 18 months of general work experience after your Medical Degree as a junior physician in medicine, surgery, primary health care, and psychiatry. An examination covering the entire period of work experience must be passed before the student becomes a registered physician. A work permit is necessary for the period of work experience.

Special requirements: upper secondary studies in Mathematics, Physics, Chemistry, Biology.

Degree: Degree of Master of Science in Medicine (Läkarexamen)

After graduation follows a period of practical experience/internship (Allmäntjänstgöring-AT) of at least 18 months in order to become a registered physician. After having successfully completed the programme, the physician obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every term (twice a year).

From the autumn term 2007 a new curriculum came into force. Therefore, both curricula are displayed on the following page.

Programme overview:

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Introduction</th>
<th>Overview Gross Anatomy, Tissues</th>
<th>Molecular Cell Biology</th>
<th>EPC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 ECTS</td>
<td>5 ECTS</td>
<td>12 ECTS</td>
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<table>
<thead>
<tr>
<th>Term 2</th>
<th>Genetics, Cell Genetics and Developmental Biology</th>
<th>7 ECTS</th>
<th>Functional Cell Biology</th>
<th>7 ECTS</th>
<th>Integr Physiology Biochemistry and Pharmacology</th>
<th>5 ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Genetics, Cell Genetics and Developmental Biology</td>
<td></td>
<td>Functional Cell Biology</td>
<td></td>
<td>Integr Physiology Biochemistry and Pharmacology</td>
<td></td>
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<td></td>
<td>7 ECTS</td>
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<td>7 ECTS</td>
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<td>5 ECTS</td>
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</table>

<table>
<thead>
<tr>
<th>Term 3</th>
<th>Cont. Integrated Physiology, Biochemistry and Pharmacology</th>
<th>EPC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>19 ECTS</td>
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<tr>
<th>Term 4</th>
<th>Cont. Integrated Physiology etc</th>
<th>6 ECTS</th>
<th>Clinical Anatomy</th>
<th>9 ECTS</th>
<th>Integr Electives in Biomedicine</th>
<th>EPC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 ECTS</td>
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<td>9 ECTS</td>
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<td>1 ECTS</td>
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<thead>
<tr>
<th>Term 5</th>
<th>Pathology</th>
<th>EPC</th>
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<tbody>
<tr>
<td></td>
<td>10 ECTS</td>
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<table>
<thead>
<tr>
<th>Term 6</th>
<th>Cont. Infection, Microbiology and Immune Defence</th>
<th>8 ECTS</th>
<th>General Internal Medicine / Dermatology and Venereology</th>
<th>8 ECTS/4 ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 ECTS</td>
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<td>4 ECTS</td>
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<thead>
<tr>
<th>Term 7</th>
<th>Cont. General Internal Medicine</th>
<th>20 ECTS</th>
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<thead>
<tr>
<th>Term 8</th>
<th>Surgery (General Surgery, Orthopedics, Anaesthesics, Urology)</th>
<th>20 ECTS</th>
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<tr>
<td></td>
<td>20 ECTS</td>
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<table>
<thead>
<tr>
<th>Term 9</th>
<th>Clinical Neuroscience - Ophthalmology/Otolaryngology</th>
<th>14 ECTS</th>
<th>Community Medicine/Psychiatry</th>
<th>6 ECTS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Otolaryngology</td>
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<td>14 ECTS</td>
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<thead>
<tr>
<th>Term 10</th>
<th>Cont. Community Medicine/Psychiatry</th>
<th>10 ECTS</th>
<th>Project Work or International Medicine</th>
<th>10 ECTS</th>
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<tr>
<td></td>
<td>10 ECTS</td>
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<td>10 ECTS</td>
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<thead>
<tr>
<th>Term 11</th>
<th>Radiology</th>
<th>1 ECTS</th>
<th>Women's and Children's Health (Paediatrics, Obstetrics &amp; Gynecology, Child &amp; Adolescent Psychiatry)</th>
<th>19 ECTS</th>
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<tbody>
<tr>
<td></td>
<td>1 ECTS</td>
<td></td>
<td>19 ECTS</td>
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</table>

All terms are taught autumn and spring.
### REVISED STUDY PROGRAMME IN MEDICINE - 5 1/2 YEARS

*First admission autumn 2007, admission twice a year*

<table>
<thead>
<tr>
<th>Term</th>
<th>ECTS Credits</th>
<th>Courses Offered</th>
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</thead>
<tbody>
<tr>
<td><strong>Term 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autumn 07</td>
<td>15 ECTS</td>
<td>Intro Overview - Anatomy, Tissue and Cell Molecular Cell Biology BF1 3 ECTS</td>
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<tr>
<td>Spring 07</td>
<td>16.5 ECTS</td>
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<tr>
<td><strong>Term 2</strong></td>
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<tr>
<td>Spring 08</td>
<td>18.5 ECTS</td>
<td>Functional Histology Physiology, Pharmacology and Biochemistry</td>
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<tr>
<td><strong>Term 3</strong></td>
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<tr>
<td>Autumn 08</td>
<td>15 ECTS</td>
<td>Physiology, Pharmacology and Biochemistry (cont.) BF2 3 ECTS Clinical Anatomy EPC C 4.5 ECTS</td>
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<tr>
<td>Spring 09</td>
<td>16.5 ECTS</td>
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<tr>
<td><strong>Term 4</strong></td>
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<tr>
<td>Spring 09</td>
<td>12.5 ECTS</td>
<td>Clinical Anatomy Pathology 15 ECTS</td>
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<tr>
<td><strong>Term 5</strong></td>
<td></td>
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<tr>
<td>Autumn 09</td>
<td>12 ECTS</td>
<td>Genetics Consultation Skills Infectious Diseases, Microbiology and Immune Defense 10.5 ECTS</td>
</tr>
<tr>
<td>Spring 10</td>
<td>9 ECTS</td>
<td>BF3 Internal Medicine I</td>
</tr>
<tr>
<td><strong>Term 6</strong></td>
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<tr>
<td>Spring 10</td>
<td>27 ECTS</td>
<td>Internal Medicine II</td>
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<tr>
<td><strong>Term 7</strong></td>
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<tr>
<td>Autumn 10</td>
<td>18 ECTS</td>
<td>External Medicine II Neurology 10.5 ECTS Psychiatry 10.5 ECTS</td>
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<tr>
<td>Spring 11</td>
<td>15 ECTS</td>
<td>Internal Medicine II</td>
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<tr>
<td><strong>Term 8</strong></td>
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<tr>
<td>Spring 11</td>
<td>15 ECTS</td>
<td>Surgery 28.5 ECTS + Internal Medicine II 1.5 ECTS</td>
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<tr>
<td><strong>Term 9</strong></td>
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<tr>
<td>Autumn 11</td>
<td>12 ECTS</td>
<td>Community Medicine Dermatology 6 ECTS Ophthalmology + Ear-Nose-Throat 10.5 ECTS Rad1.5</td>
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<tr>
<td>Spring 12</td>
<td>30 ECTS</td>
<td>Community Medicine Dermatology 6 ECTS</td>
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<td><strong>Term 10</strong></td>
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<td>Spring 12</td>
<td>15 ECTS</td>
<td>Thesis</td>
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<td><strong>Term 11</strong></td>
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<tr>
<td>Autumn 12</td>
<td>15 ECTS</td>
<td>Geriat. 1.5 Genet. 1.5 Pediatrics 12.75 ECTS Geriat. and Gynaecology 12.75 ECTS CAP</td>
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<tr>
<td>Spring 13</td>
<td>15 ECTS</td>
<td>Geriat. 1.5 Geriat. and Gynaecology 12.75 ECTS Pediatrics 12.75 ECTS</td>
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</table>

EPC = Early Patient Contact
BF = XXX
CAP = Child and Adolescent Psychiatry

### Courses offered in English:

**Molecular Cell Biology**
ECTS credits: 16, 5
Offered: Autumn and spring term
Cycle: First

**Thesis**
ECTS credits: 30/15
Offered: Autumn and spring term
Cycle: Second

**Clinical placements in hospital departments**
ECTS credits: flexible
Teacher: Supervisor from the department in the hospital
Offered: All year
Cycle: Second

### Programme in Occupational Therapy

180 ECTS credits - taught in Swedish

This programme prepares the student to work as an occupational therapist.

**Special entrance requirements:** upper secondary studies in Mathematics, Social Studies, Physics, Chemistry, Biology
The Sahlgrenska Academy
General Information 2008/2009
www.sahlgrenska.gu.se

Degree: Degree of Bachelor of Science in Occupational Therapy (Arbetsterapeutexamen)

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

Programme overview:

Sahlgrenska Academy at Göteborg University: OCCUPATIONAL THERAPY PROGRAM 180hp (180 CREDITS)

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTS Credits</th>
<th>Placement</th>
<th>Supervisor for the placement</th>
<th>Offered</th>
<th>Cycle</th>
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<tbody>
<tr>
<td>VAT500</td>
<td>Occupational therapy as a profession, academic discipline and area of research, 15 credits (2 weeks VFU + field studies)</td>
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<tr>
<td>VPS039</td>
<td>Psychology: Human development</td>
<td>7.5</td>
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<tr>
<td>VAT050</td>
<td>Applied psychology in rehabilitation</td>
<td>7.5</td>
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<tbody>
<tr>
<td>VAN030</td>
<td>Anatomy</td>
<td>7.5</td>
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<tr>
<td>VFY060</td>
<td>Physiology och neuropathology</td>
<td>7.5</td>
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<tr>
<td>VAT400</td>
<td>Occupational therapy from a public health perspective</td>
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<thead>
<tr>
<th>Term 3</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTS Credits</th>
<th>Occupation</th>
<th>Offered</th>
<th>Cycle</th>
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<tr>
<td>VMÂ020</td>
<td>Medicine I</td>
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<tr>
<td>VAT410</td>
<td>Occupational therapy: assessment of occupational performance, 15 credits (4 weeks VFU)</td>
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<tr>
<td>VMÂ030</td>
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<th>Term 4</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTS Credits</th>
<th>Occupational</th>
<th>Offered</th>
<th>Cycle</th>
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<tbody>
<tr>
<td>VAT420</td>
<td>Occupational therapy: technology, accessibility and participation in occupational performance, 15 credits (4 weeks VFU)</td>
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<tr>
<td>VPS140</td>
<td>Neuro psychology</td>
<td>4.5</td>
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<td>VAT430</td>
<td>Creativity and creativity as tools in occupational therapy</td>
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<td>VAT390</td>
<td>Occupation meaning and learning</td>
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<tr>
<th>Term 5</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTS Credits</th>
<th>Occupational</th>
<th>Offered</th>
<th>Cycle</th>
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<tbody>
<tr>
<td>VAT450</td>
<td>Clinical intervention in occupational therapy for children/youth, adults of working age and elderly people</td>
<td>15</td>
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<tr>
<td>VAT460</td>
<td>Occupational therapy: research methods, 10.5 credits</td>
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<tr>
<td>VAT470</td>
<td>Occupational therapy: professional development and teamwork</td>
<td>4.5</td>
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<th>Term 6</th>
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<th>Course Title</th>
<th>Credits</th>
<th>ECTS Credits</th>
<th>Placement</th>
<th>Offered</th>
<th>Cycle</th>
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<tbody>
<tr>
<td>VAT480</td>
<td>Advanced clinical intervention 15 credits (2 weeks VFU3 på GUÅ alternativ KUF 3) + (6 weeks VFU1) VAT090 Research project in occupational therapy, 15 credits</td>
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*Jointly with physiotherapy program, †VFU= clinical practice, ‡GUÅ= Göteborg clinical teaching dept, ‡KUF = cmc teaching forum, 1 p = 1.5 credits

Courses offered in English:

Placements
ECTS credits: flexible
Teacher: Supervisor for the placement
Offered: Autumn and spring term
Cycle: First

Programme in Physiotherapy

180 ECTS credits - taught in Swedish

This programme prepares the student to work as a physiotherapist.

Special entrance requirements: upper secondary studies in Mathematics, Social Studies, Physics, Chemistry, Biology and Sport

Degree: Degree of Bachelor of Science in Physiotherapy (Sjukgymnastexamen)
After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

**Courses offered in English:**

**Placements**  
ECTS credits: flexible  
Teacher: Supervisor for the placement  
Offered: Autumn and spring term  
Cycle: First

**Programme in Public Health Science with Health Economy**  
180/240 ECTS credits - taught in Swedish (individual courses offered in English)

This programme provides students with the basic knowledge in Public Health Science to work with planning, organisation and evaluation of health and medical care and in environmental or occupational health. Typical jobs will be found in local, regional, national or international authorities, non governmental organisations and companies.

Admission every autumn term (once a year).

The Bachelor degree can be complemented with a one year master course, leading to a Master of Science in Public Health with Health Economy. A two year Master programme will be offered from the autumn term 2009.

**Degree:** Degree of Bachelor of Science in Public Health with Health Economy/Degree of Master of Science in Public Health with Health Economy
Courses taught in English:

Please note! The course starts are approximate; please contact the international coordinator Lena.Andersson@soemed.gu.se for further information.

**Introduction to Public Health science, Epidemiology and Health Economy**  
ECTS-credits: 7, 5  
Teacher: Allan Dale  
Offered: Autumn semester, week number 36 – 43  
Cycle: First

*Course description:* The course aims at motivating the participants to continue to develop their own public health perspective or way of thinking. The participants will be able to increase their knowledge about different fields of study in the public health area and will work in teams to try to identify and understand the cause of health problems. At the end of the course, the students will be able; to use basic terminology used in the Public Health field, to use local and international databases to evaluate the health of the population, to identify causes and consequences of general health problems and to search for scientific information related to health issues.

**Gender, Sex and Health**  
ECTS-credits: 7, 5  
Teacher: Gunilla Krantz  
Offered: Autumn term, week number 44 - 48  
Cycle: First
Course description: This course focuses on gender aspects in health, illness and disease. Its main objective is to explain the gender concept and how it mirrors men's and women's differing life circumstances and as an effect also men's and women's differing health status. Masculinity and femininity as well as common diseases and lifestyle behaviour will be discussed taking gender aspects into consideration.

Epidemiology and Biostatistics
ECTS-credits: 7, 5
Teacher: Allan Dale
Offered: Spring term, week number 14 - 18
Cycle: First

Course description: The course aims at developing the student’s basic knowledge in epidemiology and biostatistics and offers basic practice in epidemiology and biostatistics in order to understand epidemiological articles and scientific documents. The course has been developed in order to have short lectures, a lot of exercises (calculations and reading articles) and one individual examination.

Health Economics
ECTS-credits: 7, 5
Teacher: José Ferraz-Nunes
Offered: Autumn term, week number 36 – 40
Cycle: First

Course description: This course covers issues such as economic theory and methods, application in health care, the contribution of health to the overall economy, economic evaluation in health and health care, economics of regulation in health care and gender perspective in health economics.

Policy, Ethics and Resource Allocation
ECTS-credits: 7, 5
Teacher: José Ferraz-Nunes
Offered: Autumn term, week number 41 – 44
Cycle: First

Course description: The course starts with key concepts in analysing health care and public health issues as an aid to strategic planning. This implies the study of distributive justice including both ethical and economic arguments. The study of ethics includes the ethics of virtue, of duty and of the common good. The economics tools are used in the context of health policy to study efficient and just allocation of resources.

Organization Theory and Leadership
ECTS-credits: 9
Teacher: José Ferraz-Nunes
Offered: Autumn term, week number 45 – 49
Cycle: First
Course description: An introduction to organisation theory is presented. The lectures focus on concepts and methods within organisations, analyses of leadership with special focus on the health care and health promotion context.
The Strand: People, Knowledge and Public Health Practice
ECTS-credits: 1, 5
Teacher: Lena Andersson
Offered: Spring term, week number 3
Cycle: First

Course description: International public health work can be performed in various ways. This course gives an insight and knowledge in how public health work is performed in different international settings with focus on developing countries. Theoretical lectures are offered about global health, international organisations, health reforms and cultural aspects. Also representatives from non-governmental organisations give lectures about their experiences in public health work in various parts of the world.

Public Health Practice
ECTS-credits: 7, 5
Teacher: Annette Sverker
Offered: Autumn term, week number 46 – 50
Cycle: First

Course description: The overall aim of the course is for the student to gain understanding of how public health work is performed in practice. The student will perform internship in organisations at local, regional or international level. The students may also do their internship abroad. The student shall independently work with theories and methods previously learnt and develop practical competence in public health.

Theories and methods in Sciences
ECTS-credits: 7, 5
Teacher: Dick Kasperowski
Offered: Spring term, week number 4 – 8
Cycle: First

Course description: In this course the student will gain knowledge about; the history of ideas, scientific theoretical concepts and ethical concerns, the formulation of a scientific question, how to argue for choice of scientific method, how to develop a plan for scientific work, how to be able to reflect over gender issues in research and how to scrutinize scientific work.

How to work in Projects and Health Economic evaluation
ECTS-credits: 7, 5
Teacher: Jose Ferraz-Nunes
Offered: Spring term, week number 9 – 13
Cycle: First

Course description: This course will present the basic concepts and theories in evaluation as well as methodological steps involved in economic evaluation. The course will also cover the critical appraisal of published papers in the field of health economics. Studies in cost-benefit, cost-effectiveness and cost-utility analysis are also included in this course.
Bachelor thesis in Public Health Sciences
ECTS-credits: 15
Teacher: Annika Jakobsson/Gösta Axelsson
Offered: Spring term, week number 14 – 23
Cycle: First

Course description: The students will write a thesis on subjects within Public Health. A supervisor with a Master’s degree or a PhD-degree will supervise the student.

Elective course
ECTS-credits: 7, 5
Offered: Spring term, week number 4-8
Cycle: Second

Global health
ECTS-credits: 7, 5
Teacher: Gunilla Krantz
Offered: Spring term, week number 9-13
Cycle: Second

Course description: The main aim of the course is to give an overview of the global health situation and its links with political, economic, social and cultural factors. Special emphasis will be put on the epidemiological transition and its driving forces, on social inequalities with special attention on gender aspects to better understand health development. Global public health, communicable and non-communicable diseases, health systems and organisations working for health will be the main topics. A study tour to WHO/EURO is planned.

Master thesis in Public Health Sciences
ECTS-credits: 15
Offered: Spring term, week number 14-23
Cycle: Second

Course description: The students will write a thesis on subjects within Public health. A supervisor with a PhD-degree will supervise the student.

Programme in Speech Pathology and Therapy
240 ECTS credits - taught in Swedish

This programme prepares students for work in diagnosing and treating children and adults with voice, speech and language impairments and swallowing disorders. The programme starts every year.

Special entrance requirements: upper secondary studies in Mathematics, Social Studies, verified normal hearing

Degree: Degree of Master of Science in Speech and Language Pathology (Logopedexamen)

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).
Programme overview:

Admission every autumn term (once a year).

Courses offered in English:

Early Communication Development: Assessment and Intervention for Infants with Hearing Impairment
ECTS credits: 7, 5
Offered: Autumn term part time (Sept – Jan)
Cycle: second

Early Communication Development and disorders
ECTS credits: 7, 5
Cycle: second

Course description: The course Early Communication Development and disorders; assessment and intervention for infants with hearing impairment, is a single subject course.

This course reviews in depth the early communication in children 0-3 years of age. Normal development of auditory, speech, and language will be outlined and the specific impact of hearing impairment on early communication skills. Early intervention options and theories behind the various options will be outlined. Current Swedish practices will be reviewed and compared to international practices.

To be eligible for the course “Early communication development and disorders: assessment and intervention for infants with hearing impairment” the equivalent of Degree of Bachelor of Science in Audiology or 180 ECTS credits in the Speech Pathology and Therapy programme is required.
Placements
ECTS credits: flexible
Teacher: Supervisor for the placement
Offered: Fall and spring term

Study Programmes – Nursing

Diagnostic Radiology Nursing
Midwifery Science
Nursing
Specialist Nursing

Programme in Diagnostic Radiology Nursing
180 ECTS credits - taught in Swedish

Special entrance requirements: upper secondary studies in Mathematics, Social Studies, Physics, Chemistry, Biology.

Degree: Bachelor of Science in Diagnostic Radiology Nursing (Röntgensjuksköterskeexamen)

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

Courses offered in English: None

Programme in Midwifery Science
90 ECTS credits - taught in Swedish

This programme prepares the student to work as a midwife. A midwife is trained in the disciplines of nursing and midwifery. Midwives provide care to women, and their newborns, in the context of the family, which includes well-woman care, family planning, maternity care, infant care and feeding.

Special entrance requirements: An undergraduate degree in nursing is required. Basic qualifications, Swedish R.N., graduate of a Swedish or equivalent school outside of Sweden, one year of occupational experience as an R.N.

Degree: Graduate Diploma in Midwifery (Barnmorskeexamen) and Master of Science (One Year) in Midwifery.

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration) which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

Courses offered in English: None
Programme in Nursing

180 ECTS credits - taught in Swedish

This programme prepares the student to work as a nurse in general care in hospitals and in community health care and introduces the student to the field of nursing research.

**Special entrance requirements:** upper secondary studies in Mathematics, Social Studies, Physics, Chemistry, Biology.

**Degree:** Degree of Bachelor of Science in Nursing (Sjuksköterskeexamen)

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every term (twice a year).

<table>
<thead>
<tr>
<th>1st Term – Introductory course</th>
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<tbody>
<tr>
<td>Introduction to nursing, 5 credits</td>
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<tr>
<th>2nd Term – Introductory course</th>
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<tbody>
<tr>
<td>Biomedicine II, 5 credits</td>
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<tr>
<th>3rd Term – Intermediate course</th>
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<tr>
<th>4th Term – Intermediate course</th>
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<tr>
<td>Clinical nursing, 5 credits</td>
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<thead>
<tr>
<th>5th Term – Advanced course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedicine III, 5 credits</td>
</tr>
<tr>
<td>Group A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6th Term – Advanced course 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing – Research thesis, 10 credits</td>
</tr>
<tr>
<td>Group A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6th Term – Advanced course 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical nursing, 10 credits</td>
</tr>
<tr>
<td>Group B</td>
</tr>
</tbody>
</table>

Each credit above equals 1, 5 ECTS credits.
Courses offered in English:
Clinical placements in hospitals
ECTS credits: flexible
Teacher: Supervisor from the department in the hospital
Offered: Autumn and spring term
Cycle: First

Specialist Nursing Programmes
60/75 ECTS credits - taught in Swedish

Degree: Graduate Diploma in Specialist Nursing (Specialistsjuksköterskeexamen)

Special entrance requirements: Basic qualifications, Swedish R.N., graduate of a Swedish or equivalent school outside of Sweden, one year of occupational experience as an R.N.

• Anaesthetic care, 60 ECTS credits
• District nurse, 75 ECTS credits
• Healthcare for children and adolescents, 60 ECTS credits
• Care in internal medicine, 60 ECTS credits
• Surgical care, 60 ECTS credits
• Oncological care, 60 ECTS credits
• Operation care, 60 ECTS credits
• Psychiatric care, 60 ECTS credits
• Care of the elderly, 60 ECTS credits
• Intensive care, 60 ECTS credits

Specialist nurse is a regulated profession in Sweden

Admission every autumn term (once a year).

Courses offered in English: None

Study Programmes – Odontology
Dental Hygiene
Dental Laboratory Technology
Dentistry

Programme in Dental Hygiene
120 higher ECTS credits - taught in Swedish

The programme provides the students with integrated knowledge and skills within oral health promotion, oral health behaviour, oral hygiene, oral health administration, oral health care and preventive oral care. The programme comprises theoretical, practical and clinical elements as well as courses in scientific theory and research methods and an independent special study. The aim is to prepare the students to work as dental hygienists in dentistry, hospitals, geriatric care, primary care and day centres.

Special entrance requirements: upper secondary studies in Mathematics, Social Studies, Physics, Chemistry, Biology.

Degree: University Diploma in Dental Hygiene (Tandhygienistexamen)
After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

Courses offered in English: None

Programme in Dental Laboratory Technology
180 ECTS credits - taught in Swedish

A professional dental technician works in close collaboration with a dentist. A dental technician makes crowns, bridges, removable prostheses, implantation prostheses etc. in a laboratory, while the dentist does the preparatory and subsequent clinical work.

Special entrance requirements: upper secondary studies in Mathematics, Physics, Chemistry, Biology, Social Studies.

Degree: Degree of Bachelor of Science in Dental Technology (Tandteknikerexamen)

Admission every autumn term (once a year).

Courses offered in English: None

Programme in Dentistry
300 ECTS credits - taught in Swedish

This programme prepares students for work in dentistry. During the first two years, teaching centres on understanding the construction and functions of the human body. During the third year, students learn to diagnose and treat dental disorders. In the final two years of the programme, they work independently on treatment of patients.

Special entrance requirements: upper secondary studies in Mathematics, Physics, Chemistry, Biology.

Degree: Degree of Master of Science in Dental Surgery (Tandläkarexamen)

After having successfully completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

Courses offered in English: None
Study Programmes - Pharmacy

Pharmacy (Master of Science in Pharmacy)
Dispenser/Prescriptions (Bachelor of Science in Pharmacy)

Programme in Pharmacy
300 ECTS credits - taught in Swedish

This programme prepares the student to work as a pharmacist, within the pharmacy and pharmaceutical industries and with pharmaceutical biological research. The pharmacy programme is based on chemistry and biomedicine. It provides the students with a wide knowledge of chemistry, biological science and pharmacy, focusing on all aspects of pharmaceuticals, such as production, function and uses.

Special entrance requirements: upper secondary studies in Mathematics, Physics, Chemistry and Biology

Degree: Degree of Master of Science in Pharmacy (Apotekarexamen)
A revised programme in Pharmacy started with the intake of autumn 2006. The older programme will gradually be replaced by the new one.

After successfully having completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare (Socialstyrelsen).

Admission every autumn term (once a year).

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic Chemistry 1, 15 ECTS</td>
<td>Basic Chemistry 2, 15 ECTS</td>
</tr>
<tr>
<td>2</td>
<td>Cell Organization and Subcellular Structures, 9 ECTS</td>
<td>Cell- and Molecular Biology 1, 21 ECTS</td>
</tr>
<tr>
<td>3</td>
<td>Cell- and Molecular Biology 2.9 ECTS</td>
<td>Developmental Biology, 6 ECTS</td>
</tr>
<tr>
<td>4</td>
<td>Central and Peripheral Nervous System, 15 ECTS</td>
<td>Autonomic Nervous System, Cardiovascular System and Gastrointestinal Tract, 15 ECTS</td>
</tr>
<tr>
<td>5</td>
<td>Endocrinology, Metabolism and Respiration, 15 ECTS</td>
<td>Microbiology and Tumour Biology, 15 ECTS</td>
</tr>
<tr>
<td>6</td>
<td>Organic Chemistry, 15 ECTS</td>
<td>Physical Organic Chemistry and Medicinal Chemistry, 15 ECTS</td>
</tr>
<tr>
<td>7</td>
<td>Pharmacy, 30 ECTS</td>
<td>(Pharmaceutics 9 ECTS, Pharmacognosy 4.5 ECTS, Pharmacokinetics and drug metabolism 12 ECTS, Community Pharmacy 4.5 ECTS)</td>
</tr>
<tr>
<td>8</td>
<td>Pharmacy, 30 ECTS</td>
<td>(Community Pharmacy 4.5 ECTS, Pharmaceutics, oral formulations 4.5 ECTS, Drug toxicity and toxicokinetics 6 ECTS, Elective course/s 15 ECTS)</td>
</tr>
<tr>
<td>9</td>
<td>Degree Project, 30 ECTS</td>
<td></td>
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<tr>
<td>10</td>
<td>Pre-registration Training with Pharmaceutical Legislation, 30 ECTS</td>
<td></td>
</tr>
</tbody>
</table>

The Sahlgrenska Academy
General Information 2008/2009
www.sahlgrenska.gu.se
Revised programme in Pharmacy 2006-

Semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic Chemistry I, 15 ECTS</td>
<td>Basic Chemistry II, 15 ECTS</td>
</tr>
<tr>
<td>2</td>
<td>Cell Biology I: The Cell, 4,5 ECTS</td>
<td>Cell Biology II: Molecular Genetics, 13,5 ECTS</td>
</tr>
<tr>
<td>3</td>
<td>Cell Biology IV: Metabolism, 7,5 ECTS</td>
<td>Immuneology, Infection, Tumour Biology, 4,5 ECTS</td>
</tr>
<tr>
<td>4</td>
<td>Principals of Medical Chemistry, 7,5 ECTS</td>
<td>Physiology and Anatomy, 15 ECTS</td>
</tr>
<tr>
<td>5</td>
<td>Pharmacology, Pathology and Medical Chemistry, 30 ECTS</td>
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</tr>
<tr>
<td>6</td>
<td>Cont. Pharmacology, 7,5 ECTS</td>
<td>Analytical Chemistry, 7,5 ECTS</td>
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<tr>
<td>7</td>
<td>Pharmaceutics, 15 ECTS</td>
<td>Community Pharmacy, 7,5 ECTS</td>
</tr>
<tr>
<td>8</td>
<td>Elective Courses, 4 x 7,5 ECTS</td>
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<tr>
<td>9</td>
<td>Degree Thesis, 30 ECTS</td>
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<tr>
<td>10</td>
<td>Pre-registration Training with Pharmaceutical Legislation, 30 ECTS</td>
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</tbody>
</table>

Admission every autumn. First admission 2006

Courses offered in English:
Elective Course: Preclinical Drug Development - From Mouse to Man
ECTS-credits: 7,5
Teacher: Michael Ashton
Offered: Spring term, April
Cycle: Second

Prerequisites: Pharmacokinetics and drug metabolism at advanced level

Course description: This elective course is offered within the Master of Science programme in Pharmacy. The objective with the course is to give the student in-depth knowledge of preclinical drug development, with focus on xenobiotic metabolism and pharmacokinetics. It aims to provide knowledge and skills needed for future work within drug development and research. A main objective of the course is to provide knowledge of how assessment of absorption, distribution, metabolism and elimination contribute to rational drug development. There are two themes throughout the course: bioanalytical chemistry and drug metabolism/pharmacokinetics/pharmacodynamics. Data analysis is also a strong component.

Reading list:
Schoenwald R D: Pharmacokinetics in Drug Discovery and Development, CRC Press
Renman L: Instrumentella Separationsmetoder: Kromatografi och Kapillärelektrofores
Alternative recommended literature:
Kwon Y: Handbook of Essential Pharmacokinetics, Pharmacodynamics, and Drug Metabolism for Industrial Scientists, Kluwer Academic/Plenum Publishers
Elective Course: Clinical Pharmacokinetics and Pharmacodynamics  
ECTS-credits: 7, 5  
Teacher: Michael Ashton  
Offered: Spring term, May - June  
Cycle: Second  

Prerequisites: Pharmacokinetics and drug metabolism at advanced level  

Course description: An elective course within the Master of Science Programme in Pharmacy being the ultimate theoretical course.  

After completion of the course the student shall have in-depth knowledge of drug absorption, distribution, metabolism and elimination in humans as well as how these processes impact on the intensity and duration of drug response. The student shall be confident with data analysis of experimental results. Further, the student shall have an understanding of the clinical drug development process including issues relating to the design, planning and conduct of explanatory and confirmative clinical studies. The student shall acquire specialized knowledge on the optimal use of specific drugs. The course aims to provide the student knowledge and skills of importance for future work within clinical drug development and/or clinically oriented pharmacy.  

Reading list:  
ICH Guidelines, Efficacy Topics  
Scientific articles and reference literature  
Alternative literature:  
Winter ME: Basic Clinical Pharmacokinetics, Lippincott Williams & Wilkins 2004  

Degree Thesis  
ECTS-credits: 30  
Offered: Autumn term  
Cycle: Second  

Placements in research groups  
ECTS credits: flexible  
Teacher: Supervisor, responsible for the research group  
Offered: Autumn and spring term  
Cycle: Second
Dispenser/Prescriptionist Programme

After successfully having completed the programme, the degree holder obtains his/her licence to practise (full registration), which is granted by the National Board of Health and Welfare.

Admission every autumn term (once a year).

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Introductory course, 7.5 ECTS</th>
<th>Basic Analytical Pharmaceutical Chemistry, 7.5 ECTS</th>
<th>Basic Pharmaceutical Chemistry, 7.5 ECTS</th>
<th>Basic Organic Pharmaceutical Chemistry, 7.5 ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 2</td>
<td>Cell Biology I, biochemistry &amp; genetics, 7.5 ECTS</td>
<td>Cell Biology II, microbiology &amp; cellphysiology, 7.5 ECTS</td>
<td>Integrative Biomedicine I, morphology &amp; physiology, 15 ECTS</td>
<td></td>
</tr>
<tr>
<td>Term 3</td>
<td>Integrative Biomed II, basic and applied pharmacology including basic medical concepts, 18 ECTS</td>
<td>Pharmacodynamics &amp; Toxicology, 15 ECTS</td>
<td>Pharmaceutical outcomes research, 7.5 ECTS</td>
<td></td>
</tr>
<tr>
<td>Term 4</td>
<td>Medicinal Chemistry, Pharmacognosy &amp; Toxicology, 15 ECTS</td>
<td>Pharmaceutics, 7.5 ECTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Term 5</td>
<td>Statutory regulations, 4.5</td>
<td>Clinical pharmacokinetics, 10.5 ECTS</td>
<td>Pharmacokinetics, 7.5 ECTS</td>
<td>Electable pharmaceutical course, 7.5 ECTS</td>
</tr>
<tr>
<td>Term 6</td>
<td>Degree project in pharmacy, 15 ECTS/ Applied pharmacy, 15 ECTS</td>
<td>Degree project in pharmacy, 15 ECTS/ Applied pharmacy, 15 ECTS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Courses offered in English: None

Single Subject Courses offered in English

Integrated Quantitative Pharmacology

ECTS-credits: 15, 1st September – 7th November
Teacher: Gunnar Tobin/Johan Gabrielsson
Offered: Autumn term
Cycle: Second

Course description: The course gives knowledge in general pharmacology, receptor binding, in vitro/in vivo experimentation PK and PKPD theory, and related aspects in drug discovery/development. The course also provides an interface between numerical analysis of PK and PD data and physiological concepts. Based on the background provided in lectures, delegates will apply this information to the modelling package in hands-on exercises on real-life case studies. An extensive number of models will be covered. This includes single and multiple dose dynamics, steady-state data, receptor on/off models, turnover (indirect response) models, link models, tolerance, rebound and synergistic models, bi-phasic response data, physiological kinetic/dynamic modelling, transduction models, diurnal variations, allometric models for scaling kinetic and dynamic processes.

For further information: www.pharmguse.net/advanced/advanced-courses.html

Vaccinology and Mucosal Immunology

ECTS credits: 15
Teacher: Mats Bemark
Offered: Autumn term, 3rd November – 20th January
Cycle: Second
An advanced course, offered at the Department of Microbiology and Immunology.

Course description: This course focus is on two related areas of modern immunology aimed at students interested in pursuing a Master's Degree. The course will give the students an excellent understanding of vaccinology and mucosal immunology and introduce them to current research efforts and techniques in these areas. The course is based on lectures, problem based learning (PBL) in small groups, and an extensive lab course (4 weeks). The lectures and PBL sessions will focus on topics such as mucosal immunology, microbe-host cell interactions, vaccine formulations, vaccine production, development of novel vaccines and adjuvants, the process of clinical trials and vaccination for global health. During the lab course, the students will practice a number of advanced immunological techniques, including multi-color flow cytometry, real-time PCR, cytometric bead array analysis, and fluorescent and confocal microscopy, using state of the art equipment.

For more information: mats.bemark@immuno.gu.se or marianne.quiding@microbio.gu.se
Practical Information for Incoming students

Student Associations
Swedish students are required to belong to a student association, or union. The Göteborg University Students’ Association (GFS), located on Götabergsgatan 17, offers a wide variety of social activities, sports facilities, medical services etc.

The Students’ Associations of the Sahlgrenska Academy caters to the specific needs of the students attending the Academy.

Intet (Medicine): intet@mfg.gu.se
InUt (Health Care sciences): inut@hvs.gu.se

A guide for exchange students at the University of Gothenburg

Exchange Student Services (ESS)
Handles the service of welcoming and introducing exchange students to the University of Gothenburg at the beginning of each term, as well as providing support and offering activities throughout the academic year. The service ESS offers incoming students are;

Reservation of student rooms
Welcome Programme
Swedish Language Course
Student Buddy system

Applying for ESS’ services
When you have have been accepted as an exchange student at the University of Gothenburg you should ask for the web registration key for registration at ESS from your international coordinator.

Opening hours
Monday - Friday 09.00 – 12.00 at Karl Gustavsgatan 29, in front of the student information desk. Other times by appointment

For further information:
Exchange Student Services (ESS)

Mailing address: The University of Gothenburg
P.O Box 100
SE-405 30 Göteborg, Sweden

Visiting address: Karl Gustavsgatan 29
Tel: +46 31 786 1086/5337
Fax: +46 31 786 5126
Email: ess@gu.se
Website: www.exchangestudent.gu.se
Student Accommodation

No campus housing is available at The University of Gothenburg. The Students’ Association operates a number of residences in which exchange students have priority status. The University’s Exchange Student Services (ess@gu.se) will, to the extent possible, provide assistance to exchange students. It is recommended that students contact the Exchange Student Services well in advance of their arrival in Gothenburg. The application for accommodation is online, please see:

http://application.exchangestudent.gu.se

The accommodation is allotted as applications come in. You need a registration key to sign up, which you will get from your international coordinator.

Housing is provided by the local student housing company, SGS. Rent is charged twice a term.

The accommodation for exchange students is always integrated in areas of student housing.

All rooms come with basic furniture like desk, bookshelf, bed, chairs and lamps, while kitchen utensils, light bulbs, bed linen and towels are your own responsibility. We recommend exchange students to rent the “Erasmus package” which also includes a mattress on request. Broadband Internet access is included in the rent. You have to register for this service. Please note that you have to bring your own computer!

Housing contract and keys

Sign the housing contract and collect your keys at the Exchange Student Services office at Karl Gustavsgatan 29. Always bring your receipt of advance payment and identification. Please note that you have to provide your own transportation

Internet access

You register for this service at the SGS Computer Network Group office.

Always bring your housing contract and identification.

SGS Computer Network Group office
Visiting address: Kasernstorget 11
Telephone: +46 1 333 63 30
Fax: +46 31 333 63 31
E-mail: dng@sgsstudentbostader.se

Office hours: Mondays - Thursdays: 17.00 – 19.00

www.konfoservice.adm.gu.se/english/guesthousing/exchangestudents/internetaccess/

Arrival guide to University of Gothenburg:

www.konfoservice.adm.gu.se/english/guesthousing/exchangestudents/arrivalguide/
Arrival information

We strongly recommend you arrive during the Arrival Week, when the Exchange Student Services office will stay open every weekday, and some evenings. www.gu.se/english/education/Exchange_student/Arrival+information/

Arrival day and pick-up service

If you want to sign up for the arrival day please see: http://www.utbildning.gu.se/english/exchangestudent/exchangestudentguide/Arrival

Arrival on other dates

If you arrive after the Arrival Weeks, please contact ESS.

The following is some information intended to facilitate your arrival in Gothenburg:

- At Landvetter Airport: Arrivals at Landvetter airport can take a bus directly to the city centre. The bus runs regularly and the cost one way is SEK 75.

- At Gothenburg City Airport: Arrivals at Gothenburg City Airport can take a bus directly to the city centre. The timetable follows the arrival times of the flights and the bus leaves when all the passengers have disembarked the plane. The cost one way is SEK 50.

- At the train station: Arrivals to the Central train station arrive directly in the city centre.

- At the bus station: Arrivals to the Central bus station arrive directly in the city centre.

- By car: If you arrive by car you can drive directly to ESS at Karl Gustavsgatan 29.

To collect your keys at ESS: Once you have arrived in the city centre, you should take tram number 3 (towards Marklandsgatan) and get off at the stop "Vasa/Viktoriagatan". From there, you cross the street "Vasagatan" and walk uphill on Karl-Gustavsgatan until you see number 29 and a “Göteborgs Universitet – sign” (approximately 250 meters).

Welcome programme

ESS arranges a welcome programme at the beginning of each semester. The programme includes guest lectures, orientation and social activities with Swedish and other international students. The aim is to ensure a smooth integration to the academic and social life at Göteborg University. The introduction programme will start week 35, 2008 and week 4, 2009. Application online: http://application.exchangestudent.gu.se

The mentor system the Sahlgrenska Academy

As a service to our exchange students at the Sahlgrenska Academy, you will have your own student mentor. This service is organized by the Student’s associations at the Academy: Many exchange students will get a mentor from their own study programme.

Intet intet@mfg.gu.se (Student union for students in medicine, pharmacy and speech therapy)

InUt inut@hvs.gu.se (Student union for students in Health Care Sciences)
You do not need to apply for this service; registration is automatic when accepted as an exchange student at the Sahlgrenska Academy.

The Student Buddy programme at the University of Gothenburg
The University of Gothenburg has a buddy system which engages Swedish students to help visiting students adapt to their new environment. They will also guide them in Gothenburg’s student life. A mentor group is formed by three to six students with both Swedish and international students. The intent is to match students who have the same line of study, the same interests and hobbies etc.

Students who come to study at the University of Gothenburg have the opportunity to participate in the Student Buddy programme where they get the chance to meet and socialize with Swedish students "Student Buddies or mentors" at the Sahlgrenska Academy and the University of Gothenburg. Student Buddies/mentors are asked to email exchange students before their arrival to initiate contact. Later, after the student's arrival in Gothenburg, Student Buddies are present to provide help and information. There are lots of possibilities for interaction between exchange students and Student buddies. Throughout the semester activities are arranged by the Student buddy groups; examples of this can be dinners and short trips. Exchange Students and Student buddies are also invited to activities organized by ESS.

Application online: http://application.exchangestudent.gu.se/

Swedish Language Course
Language training provides language skills useful in daily life situations, and prepares the student to be able to take part in general conversation. The courses are offered on three levels; beginner, intermediate and advanced. Examination is based upon an oral and written test. Having passed the tests successfully, the student is awarded 7.5 ECTS-credits.

Applications can only be made using the online application form: http://application.exchangestudent.gu.se/

The contact at the department of Swedish is:
Ann-Marie Wahlström, Ann-Marie.Wahlstroem@svenska.gu.se

Reading list (for Introductory/Beginners level):
It is essential that you buy the textbook (including CD) before the first meeting - Svenska för utländska studenter written by Rehnqvist, Gunilla (ISBN 9144045190). The cost is approximately SEK 280 and can be purchased from one of the web shops www.adlibris.se or www.bokus.com. You could also check at Göteborgs studentbokhandel, Götabergsgatan 17; Bokhandel & antikvariat Aniara, Linnégatan 47; or Akademibokhandeln, Vasagatan 26-30. www.utbildning.gu.se/english/exchangestudent/swedishcourses/
Information about preventive action against MRSA and VRE
Since 2004, infection caused by MRSA has been classified as a disease dangerous to public health in the Swedish Communicable Disease Act. Sahlgrenska University Hospital and the Västra Götaland Region have therefore decided that all healthcare workers including incoming students from countries outside Scandinavia need to be screened for MRSA and VRE. The screening should be done as soon as possible after your arrival in Gothenburg. Healthcare workers and students with skin lesions such as eczema may not take part in nursing care until a negative culture is obtained. For further information see appendix.

Cost of Living
A student will need ~ SEK 7 500 per month.

Accommodation
The monthly cost of a student room, or private room (furnished, shared kitchen facilities) ranges from SEK 2 600 – 3 800 per month, depending on location and standard.

Food and miscellaneous
Approximately SEK 4 000 – SEK 6 000 per month.

Transportation
Public transportation (bus, tram): Monthly pass SEK 310 (up to 26 years old)/SEK 415 (over 26 years old), unlimited travel daytime within the city;
Single trip: SEK 25.
Gasoline: SEK 12/liter (approximately.)
SEK 10 ~€ 1
Emergency telephone numbers:

112  Police, ambulance, fire brigade
786 3027/3081  International Coordinators at the Sahlgrenska Academy
786 1086/5337  Exchange Student Services at the University of Gothenburg
708 1390  Student Health Service (Utlandagatan 24)
342 1000  The Sahlgrenska University Hospital – 24 hour Emergency
725 0000  Axess-akuten – 24 hour Emergency (private) (Södra Allégatan 6)
80 78 00  Emergency dentist
739 2000  Police station (closest to the University; Chalmersgatan 20)
786 3156  University minister (priest)
774 6100  Swedish Migration Board
Map; the Sahlgrenska Academy

Tram/bus stop: Medicinaregatan
Appendix: 1
Preventive action against MRSA and VRE

Sahlgrenska akademin
VID GÖTEBORGS UNIVERSITET
The Committee of Internationalization, programme in Medicine

Nov 11th 2006/LD

To incoming exchange students

Preventive action against MRSA and VRE

Since 2004, Infection caused by MRSA has been classified as a disease dangerous to public health in the Swedish Communicable Disease Act. The Sahlgrenska University Hospital and the Västra Götaland Region has therefore decided that all healthcare workers including incoming students from countries outside Scandinavia need to be screened for MRSA (methicillin-resistant Staphylococcus aureus) and VRE (vancomycin-resistant enterococci). The screening should be done as soon as possible after your arrival in Göteborg. Healthcare workers and students with skin lesions such as eczemas may not take part in nursing care until a negative culture is obtained.

Culture swabs will be taken from the nose, the throat and from possible skin lesions. The procedure can be done at the outpatient clinic at the Department of Infectious Disease. Please call 031-343 4281 for an appointment. The clinic is located at the Östra Hospital which is easy to reach by tram No 1.

Please note that the procedure also is applied for Swedish students who have been studying abroad. The cultures and further appointments due to culture results are free of charge.

Background and further information concerning the guidelines for control measures of MRSA can find at the website (in English):
http://www.infektionshygien.se/upload/SU/område_medel/laborat/infektions
hygien/mrsa_english.pdf

We are sincerely grateful for your understanding and co-operation.

For the Committee of Internationalization, Programme in Medicine at the Sahlgrenska Academy,

Leif Dorevall
Infectious Disease Consultant
MD, PhD, DTM&H
# Appendix 2
## Learning Agreement

### LEARNING AGREEMENT / STUDY PLAN

**ACADEMIC YEAR**: 20__/20__

**FIELD OF STUDY**: __________

<table>
<thead>
<tr>
<th>Student’s name:</th>
<th>Sending institution:</th>
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### PROPOSED STUDY PROGRAMME

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<th>COURSE CODE</th>
<th>NUMBER OF ECTS CREDITS</th>
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<table>
<thead>
<tr>
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<th>Student’s signature:</th>
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### SENDING INSTITUTION

We confirm that this proposed programme of learning agreement / study plan is approved:

<table>
<thead>
<tr>
<th>Date:</th>
<th>Departmental / Institutional coordinator’s signature:</th>
<th>Stamp / Seal:</th>
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### RECEIVING INSTITUTION

We confirm that this proposed programme of learning agreement / study plan is approved:

<table>
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Appendix 3

International Coordinators at the Sahlgrenska Academy
Each undergraduate programme at the Sahlgrenska Academy has its own agreements.

Audiology
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Biomedical Laboratory Science
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