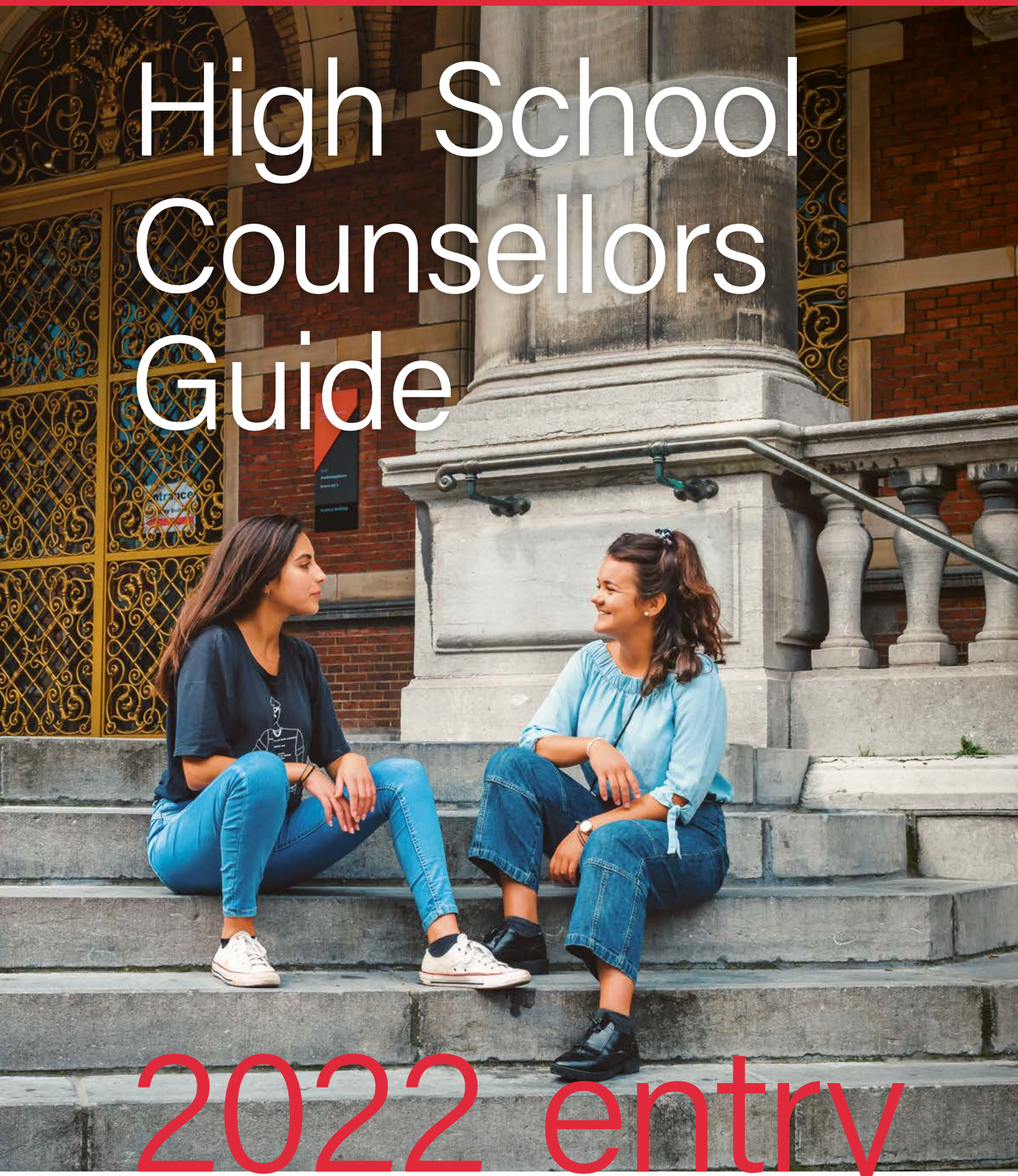
university of groningen

High School Counsellors Guide



2022 entry

open academic community – since 1614

Bachelor's Open Day

12 November 2021
4 February 2022
23 April 2022

Open Day for prospective students who want more information about our Bachelor's degree programmes.

More information:
www.rug.nl/opendays

Web classes

Autumn 2021
Spring 2022

Online taster courses for Bachelor's applicants.

More information:
www.rug.nl/webclasses

www.rug.nl
University of Groningen
universityofgroningen
University of Groningen
@uniofgroningen

Content

Why study in the Netherlands?	4
Why choose the University of Groningen?	5
Life at the UG	6
Our locations	8
Studying at the University of Groningen	12
Accommodation	13
University life	14
Careers Service	15
How to apply	16
Studielink	17
Fees and living expenses	18
Bachelor's programmes	19
Bachelor's entry requirements	56
English requirements	59

Admissions information

For information about a particular bachelor's programme, contact the relevant faculty or visit the programme webpage.

More information

www.rug.nl/bachelors

Meet Us!

Find out where you can meet us in your country or at an online or virtual event.
www.rug.nl/meetus

Important

This guide describes the 2022–2023 academic year based on the knowledge and expectations held in September 2021. At the time of publication a number of Covid-19 measures remain in effect within the Netherlands. The aim is for education and research to take place on campus where possible, although some classes and exams will still be carried out online. The University of Groningen will continue to follow and adjust to any temporary Covid-19 measures that may be required. It is unclear if future measures will affect the academic year 2022–2023. However, the University of Groningen will enable students to continue with their education.

Up-to-date information about the Covid-19 situation at the university can be found at **www.rug.nl/corona**.

Why study in the Netherlands?

We are aware that there are several global study destinations available to students so here we have highlighted why choosing to study in the Netherlands can provide a well-rounded, quality learning experience.

Quality
The majority of Dutch universities are regularly ranked in the top 100 with almost all being in the top 200 of global rankings.

Duration
Programmes in the Netherlands are shorter and more intensive than a number of other countries with a Bachelor's degree usually taking three years to complete.

Cost
Fees at a Dutch university are often lower than those of institutions in other leading destination countries with fee status being decided based on nationality, not previous country of residence.

Accessibility
The Netherlands is now the largest provider of English-taught study programmes in mainland Europe with the University of Groningen offering the most in the country.

Safe and happy
According to the 2019 Global Peace index, the Netherlands is one of the safest countries in the world and is currently in the top 5 happiest countries in the world.

Post study work
After graduating from a degree programme in the Netherlands, your students will be able to stay in the Netherlands for a year and work in any field.

Support
Throughout your students' time at a university in the Netherlands, there will be a strong support system available to help them succeed. At the University of Groningen this includes mentors, study advisors and tutors who will be available with help and advice on aspects relating to student life.

Schengen
Depending on their nationality, international students in the Netherlands requiring a visa will be able to move freely within the EU to other Schengen countries without needing additional documents.

Participation
Your students will be taught in an academic environment that nurtures independent thought and engagement in an innovative and research rich setting.

Why choose the University of Groningen?

The University of Groningen was founded in 1614 and has a long tradition of education, innovation and research. We are consistently ranked among the top 100 universities in the world and have one of the largest international student communities in the Netherlands. With over 25% of our students coming from nearly 140 countries, we are proud to have a truly global outlook.

Websites

Bachelor's programme:
www.rug.nl/bachelors

Master's programmes:
www.rug.nl/masters

Course information:
www.rug.nl/ocasys

Founded in 1614

Youngest city in the Netherlands

60,000 students in Groningen

Over 25% international students from 139 countries

One of the top 100 universities in the world

Over 180 English-taught degree programmes

Nurtured 4 Nobel Prize Winners

150,000 alumni worldwide

21 alumni chapters globally

64th in the world
– ARWU Shanghai Ranking (2021)

Life at the UG

Winter in Groningen!
@rieannuh

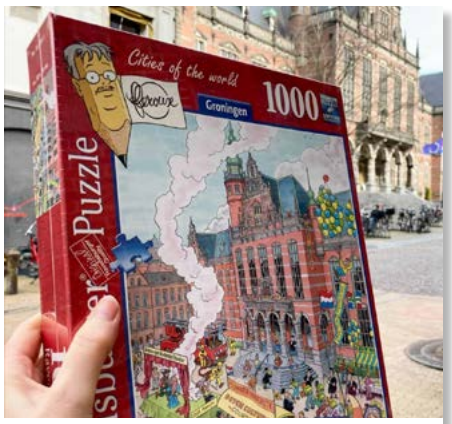
This is Groningen at its best.
@fotochraphy

Cosy and comfy in your UG hoodie!
@universityofgroningen

A historic moment in the University Museum.
Silvio Zangarini

Feike Sijbesma receives an honorary doctorate.
@universityofgroningen

'PhD done, heels off, sneakers on' – Dr. Nienke Smit.
@nienkexsmit



Ravensburger's puzzle with our Academy Building!
@ishopgroningen

Welcome to the Netherlands!
@universityofgroningen

Isn't this just magical?
@arivaldelomar

Follow us on Instagram **@universityofgroningen**

Spring at Campus Fryslân.
@rahmadian_eko

Winter wonderland in Groningen.
@thomasbenmetan

Cherry blossoms in Groningen.
@gerardkobes_photography

Aletta Jacobs on ice skates.
@universiteitsmuseumgroningen

Ilse Kolkman combines her professional rowing career with her studies. @universityofgroningen

A fairy tale in Groningen.
@irisjojanneke

Lectures during a pandemic.
@spatial_sciences_groningen

Wreath-laying ceremony on Remembrance Day.
@universityofgroningen

Khaled happily greets each student who studies at the University Library. @universityofgroningen

Our locations

GRONINGEN

233,218
Residents (2020)

Living in the city of Groningen will place you in the heart of a historic, vibrant student city with so much on your doorstep. A year in Groningen includes festivals in our parks, numerous sporting activities and bustling cafes and terraces.

1. Groningen is the largest and oldest city in the Northern Netherlands with its own international airport.
2. The city of Groningen is the capital of the province, which also bears the same name.
3. Groningen is home to various festivals, including Eurosonic (Europe's largest showcase festival), which launched the career of artists including Hozier and Bastille. Other festivals include Noorderzon, a 10 day performing art festival and StuKafest, where student rooms are used as mini concert halls or theatres.
4. Groningen is a city of entrepreneurs and has the second largest number of successful startups after Amsterdam.
5. The cost of living for students in Groningen is amongst the lowest in the country.
6. The city has a top-league football club, FC Groningen (first European team for Luis Suarez), basketball team (Donar) and volleyball team (Lycurgus).
7. There are many museums in Groningen including the University Museum, the Science Museum and the world famous Groninger Museum, which has hosted David Bowie, David LaChappelle and Rodin exhibitions.
8. With roughly 150km of bicycle lanes, it's no surprise that the city is one of the best cycling cities in the Netherlands and Europe. Around 60% of all travel happens by bike and there are more bikes than people in Groningen (1.4 bikes for each inhabitant). It's no wonder that Groningen has some of the cleanest air in the Netherlands!
9. Oosterpoort is the largest pop music venue in the north of the Netherlands. Underground club Vera hosted bands like Nirvana, Joy Division, Pearl Jam, U2, White Stripes and Sonic Youth at the start of their careers.

LEEUWARDEN

122,293
Residents (2020)

Leeuwarden, the 2019 UNESCO City of Literature (formerly the 2018 European Capital of Culture) is where Campus Fryslân is based.

1 Leeuwarden is full of terraces which can be found near the canals that crisscross the intimate city centre. Around these canals you will also find museums, restaurants, bars and venues where you can listen to upcoming bands or attend a range of diverse cultural exhibitions and events.

2 Oldehove, the Leaning Tower of Leeuwarden, started to lean during its construction and has had a slight tilt ever since causing it to lean more than the one in Pisa.

3 The city was the capital of the Netherlands from 1584 - 1747 and was home to the royal family who lived at Stadhouderlijk Hof.

4 Leeuwarden is the start and finish of the eleven city ice skating race which covers about 135 miles and takes place on the canals that connect the 11 cities in Friesland, the province where Leeuwarden is based. With the change in climate, the tour is rarely held on ice but people have found other means to navigate the route – walking, swimming and even sailing in a solar-powered boat.

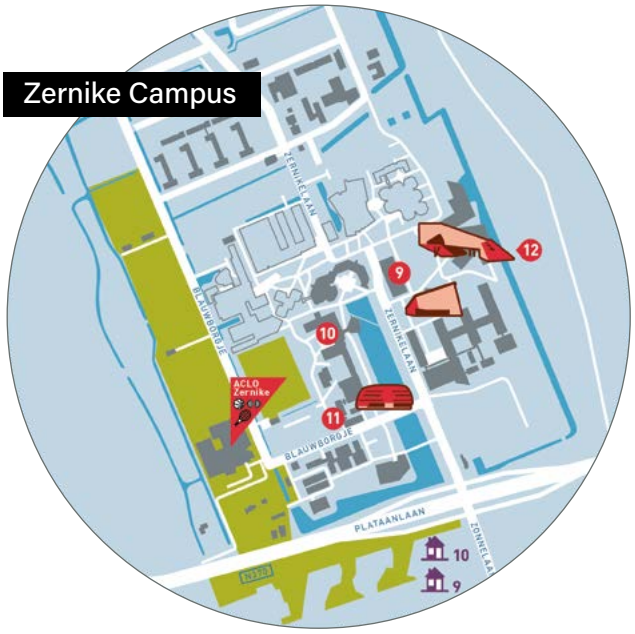
5 MC Escher was born in the city in 1898 and is one of the most famous Leeuwarders of all time. He was a world renowned graphic artist and his mysterious artwork has appeared on the covers of many books and albums.

6 Blokhuispoort was built as a fort in 1499 and functioned as the city's prison until 2008. It now fulfills the role of being the cultural heart of Leeuwarden.

GRONINGEN

Groningen City Centre

Zernike Campus



City buildings

- A Martini tower
- B City Hall
- C A-Kerk
- D Cultural Student Centre USVA
- E Groningen Museum

Student Housing

- 1 Winschoterdiep
- 2 Blekerslaan
- 3 Frascati International Students House
- 4 Hoendiep
- 5 Hofstede de Grootkade
- 6 Albertine Agnesplein
- 7 Moesstraat 8
- 8 Moesstraat 16
- 9 Bisschop Nierman Centrum
- 10 Planetenlaan
- 11 Kraneweg-Melkweg

Not on the map

- Kornoeljestraat
- Martinihouse
- Stadswerf
- Upsilon
- Van Houtenlaan

University buildings

- 1 Academy Building
  - University Student Desk
  - International Service Desk
- 2 University Library
- 3 University Museum
- 4 Oude Boteringestraat
  - Faculty of Theology
  - Faculty of Philosophy
  - Office of the University
- 5 Harmony Building
  - Faculty of Law
  - Faculty of Arts
- 6 Heymans Building
  - Faculty of Behavioural and Social Sciences
- 7 Faculty of Medical Sciences
- 8 University College Groningen
- 9 Bernoulliborg
  - Faculty of Science and Engineering
- 10 Duisenberg Building
  - Faculty of Economics and Business
- 11 Mercator Building
  - Faculty of Spatial Sciences
- 12 Linnaeusborg
  - Faculty of Science and Engineering

LEEUWARDEN

Leeuwarden Centre

City buildings

A City Hall, Hofplein 38
B Municipality, Oldehoofsterkerkhof 2
C VVV office, Sophialaan 4
D NS Station, Staionsplein 1
E Fries Museum, Wilhelminaplein 92
F Oldehove, Oldehoofsterkerkhof

Student Housing

1 Kanaalstraat (UCF)

University buildings

1 De Beurs, faculty building
2 Library, Blokhuisplein 40
3 Tresoar, Boterhoek 1

Studying at the University of Groningen

There are two main types of universities in the Netherlands – research universities and universities of applied sciences. Research universities, such as the University of Groningen, offer highly academic, research oriented programmes that focus on specific subjects. Universities of applied sciences are more professionally oriented and designed for those looking to enter a particular career upon graduation.

Research universities

There are fourteen research universities in the Netherlands. A bachelor's programme usually takes three years to complete and typically does not include work experience. Students will be studying a range of subjects before choosing a specialisation and, although the emphasis is on academic study in a research environment, our graduates find work within and outside the research community.

Universities of applied sciences

Bachelor's degrees at universities of applied sciences often take four years and all include a work placement as part of the programme. There are 41 universities of applied sciences in the Netherlands with different areas of focus and variable size. The style of education is more practical with the subjects taught often being different from those at the research universities.

University of Groningen

By choosing to study at the University of Groningen you will be joining a well-established, globally networked community of world-class students and staff. The University of Groningen is among Europe's top institutions in the field of academic research. The ground-breaking research undertaken by our staff is internationally renowned and contributes to all areas of society. In 2016 Ben Feringa was awarded the Nobel Prize in Chemistry for his work on the development of molecular machines. UG students are encouraged to use their initiative which is achieved by promoting independent study and research with guidance and supervision from tutors and support staff. Our degrees are designed to encourage students to think independently and develop their own opinions at an early stage in the programme. Active learning methods are not only more stimulating than the traditional lecturing style, but are also proven to help students develop their problem solving, critical thinking, communication and interpersonal skills, which are sought after by most employers.

With its modern study spaces, its student-oriented facilities and its extensive collection, which includes over three million books and journals, our University Library will enable access to information in the most reliable and straightforward way.

Binding Study Advice

First-year students at research universities in the Netherlands have to earn at least 3/4 of their 60 ECTS (credits) during the first year. This means a minimum of 45 ECTS of the total 60 for that year. This is called Binding Study Advice (BSA) and you will be advised in January of your first year about your results and progress and invited for a conversation with your study advisor.
If you are not able to achieve the 45 credits, you will have to discontinue your degree. Halfway through your first year, you will receive what is called preliminary advice and at the end of the study year you will receive the Binding Study Advice.

More information

www.rug.nl/bsa

How are students taught?

Lectures

Lectures usually last two hours and lecturers provide an overview of a specific subject or theme as well as provide guidance through the assigned reading material. Classes can include up to 300 students, however, depending on the programme, numbers can be significantly lower.

Tutorials

Tutorials are highly interactive classes, involving a small group of students and facilitated by a tutor. In class you will be expected to participate in the activities and present on topics that have been covered in lectures. Since the group is smaller, there are plenty of opportunities to ask questions and hold discussions with fellow students and the tutor.

Self-study

Alongside lectures, tutorials and group work, students are also expected to carry out self-study activities, such as working on assignments or doing readings ahead of lectures or tutorials. The time spent on independent study will depend on the programme.

Accommodation

We advise students to start looking for accommodation sooner rather than later, as finding somewhere to live in university cities in the Netherlands can be a challenge – especially if students wait too long. Students should consider securing accommodation once they are sure that they wish to come to study at the UG and are confident that they have a strong chance of meeting their offer.

Websites

www.athomeingroningen.com
Information on house-hunting and living in Groningen

www.sshxl.nl
Accommodation website for students wishing to find student housing in Groningen

www.rug.nl/education/accommodation
Accommodation tips

www.rug.nl/accommodationblog
Blog on how to find a home in Groningen

A place to call home
The University works with SSH XL to provide accommodation for international students with residences spread throughout the city.

Great location
All accommodation is located within 10–15 minutes by bike from the University of Groningen campuses and the city centre.

All inclusive rent
Including all utility bills, Wi-Fi, maintenance, communal cleaning (e.g. kitchen areas).

Community
Communal areas help create a sense of community, ensure a friendly and sociable environment and are a great place to make new friends.

Costs & other Information
Up-to-date information on the various accommodation offered by SSH on behalf of the University (including the all-important costs) is available on the SSH website at **www.sshxl.nl/en**

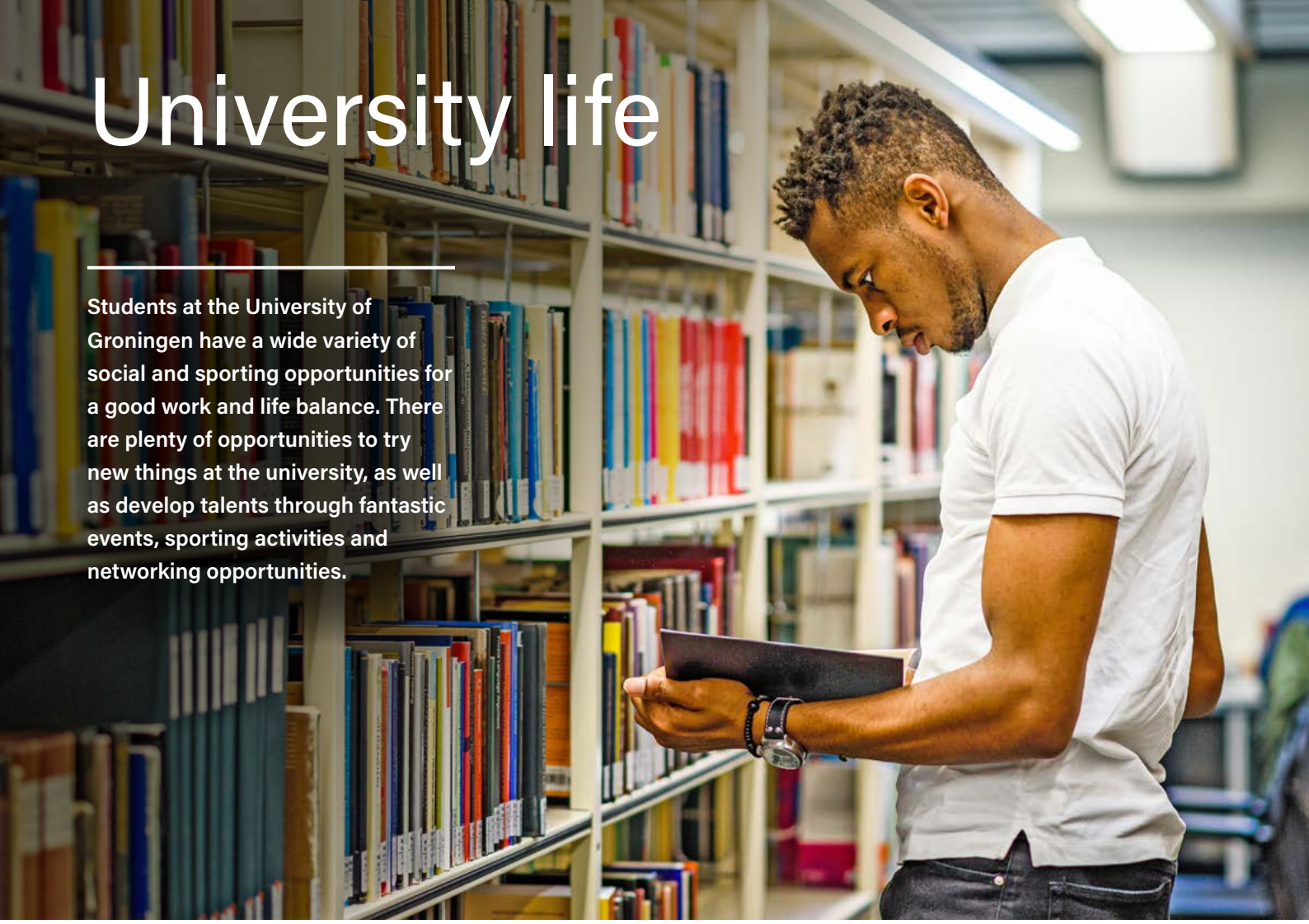
Housing in Leeuwarden
For those studying at Campus Fryslân, more information about accommodation can be found at: **www.rug.nl/cfaccommodation**.

Very important advice – Start looking for accommodation early

The start of the academic year is always an extremely busy period throughout the Netherlands and it can be difficult to find a room in many Dutch student cities. Over 20,000 students will also be looking for somewhere to stay in the city of Groningen at the same time as you. Therefore, finding accommodation is a priority and you should reserve a room as early as possible. For example, if you are starting your studies in September, we strongly advise that you begin actively looking for a room in April. It is also wise to apply to your degree programme at the University of Groningen in a timely manner and avoid waiting until the 1st May deadline, as this will delay your search for accommodation.

The 'reserved' rooms within SSH properties become available at the start of May and are usually fully booked within a few weeks. In addition, availability and choice within the private rental market become increasingly limited the longer you wait. Prices can also increase when there is a shortage of rooms in the city. You can also consider looking for accommodation in a nearby city or town in the north of the Netherlands. Most locations are within a comfortable travelling distance from the Central Station in Groningen and can be easily reached by regular public transport. Examples are the city of Assen (only 17 minutes by direct train) and the city of Leeuwarden (34 minutes by direct train).

University life



Students at the University of Groningen have a wide variety of social and sporting opportunities for a good work and life balance. There are plenty of opportunities to try new things at the university, as well as develop talents through fantastic events, sporting activities and networking opportunities.

Faculty and study associations

Most faculties have one or more study associations that allow you to socialise and network with others doing a similar programme to you. These associations are often made up of Dutch and international students and arrange presentations from professional organisations and potential employers, as well as organising social events and outings.

Student associations

Student-run associations offer the opportunity to meet other students while studying at the UG. The oldest and largest student association in the Netherlands, Vindicat atque Polit, is based in Groningen and this is just one of several associations and societies available to join. Activities range from regular jazz festivals by the Groningen Student Big Band, to public speaking training offered by Nexus (Faculty of Law) and events run by theAmnesty Student group. Groningen also has a lively chapter of ESN (Erasmus Student Network), who run an introductory week for International students.

More information

www.rug.nl/internationalstudentassociations

Sports

At the University of Groningen, we know how much staying fit and active can help during a degree. Groningen has the ACLO as the overarching student sports organisation home to 100 sports clubs. The ACLO (founded in 1945) is the largest student sports organisation of the Netherlands and represents the Groningen students' sporting interests at a national level. For a fee of just € 59,90 per year, it is possible to join 19,000 others who have access to sports and activities including water polo, African dance, bouldering, basketball and rugby.

More information

www.aclosport.nl/en

Those studying at Campus Fryslân in Leeuwarden, can use the sports facilities offered by Leeuwarden Studiestad for a small yearly fee. There is a choice of different sports, including basketball, futsal, swimming and kickboxing.

More information

www.leeuwardenstudentcity.nl

Study advisors

Each programme has one or more study advisors who can be contacted for practical information. They play an important role in academic career counselling, providing confidential guidance on the following issues:

- Analysis of interests, talents and ambitions (personal profile and labour market).
- Assistance in choosing a specialisation, optional courses, master's programmes and tracks, Honours path, 2nd study programme, etc.
- Help in finding and choosing study periods abroad, committee membership, internships, etc.
- Improving a study method, exam preparation, planning, thesis, etc.
- Support for personal matters.

More information

www.rug.nl/studyadvisor

Career Services

The UG Career Services will support and prepare students to shape the society that they live in, whichever profession they choose to enter. We help to develop strategies to be successful in an increasingly challenging jobs market and support students to think about their future early in their studies. This includes one-to-one sessions with a professional careers adviser; drop-in CV checks; skills development workshops and workshops tailored to their degree programme.

More information

www.rug.nl/careerservices

Free Online Dutch course

European Council research suggests that 90% of Dutch people speak at least basic English, with the Netherlands ranked first globally for English language skills. Therefore, you do not necessarily need to speak Dutch in order to study and live in Groningen. It is still a good idea, however, to try out our free online course Introduction to Dutch as a MOOC (Massive Open Online Course), which runs for three weeks and will help you to learn the basics of the Dutch language.

More information

www.rug.nl/languagecentre

Graduate destinations

› Shell › United Nations › ABN Amro › AT&T › Ernst and Young › Deutsche Bank › SAP › Deutsche Gesellschaft für Internationale › Zusammenarbeit (GIZ) GmbH › Embassy of Canada › Phillips › Zoological Society of London › University of Oxford › Unilever › PWC › KPN Consulting › University of Oslo › Eurocham – Indonesia › Honeywell › AkzoNobel › IOM – UN Migration Agency › Deloitte China › Schlumberger › Boeing › G-Star Raw › Klixar › Queensland University of Technology › Netherlands Forensic Institute › Culture Papillon › Chevron › Nomura › BMW Group › Max Planck Institute for Biochemistry › BSi Steel

How to apply

Entry requirements

You will be able to find up-to-date country-specific information on entry requirements on our website. This will also give you an overview of the qualifications we accept but if you are not able to find information on the website, you can call or email the Admissions Office. Some courses may require you to submit additional information or take supplementary exams and you can check with the Faculty, the Admissions Office or on the programme's web page.

English language requirements

Certain programmes may require applicants to submit an English language qualification prior to being admitted onto a programme. The University accepts a number of different qualifications such as IELTS, TOEFL and Cambridge English Qualifications, and if applicants have studied in certain countries before joining us, they might not need to provide evidence of English language proficiency. If this is not clear, check the website or ask the Admissions Office.

More information

www.rug.nl/admissions

More information about how to apply:
www.rug.nl/howtoapplybachelor

Country-specific entry requirements:
www.rug.nl/internationalqualifications

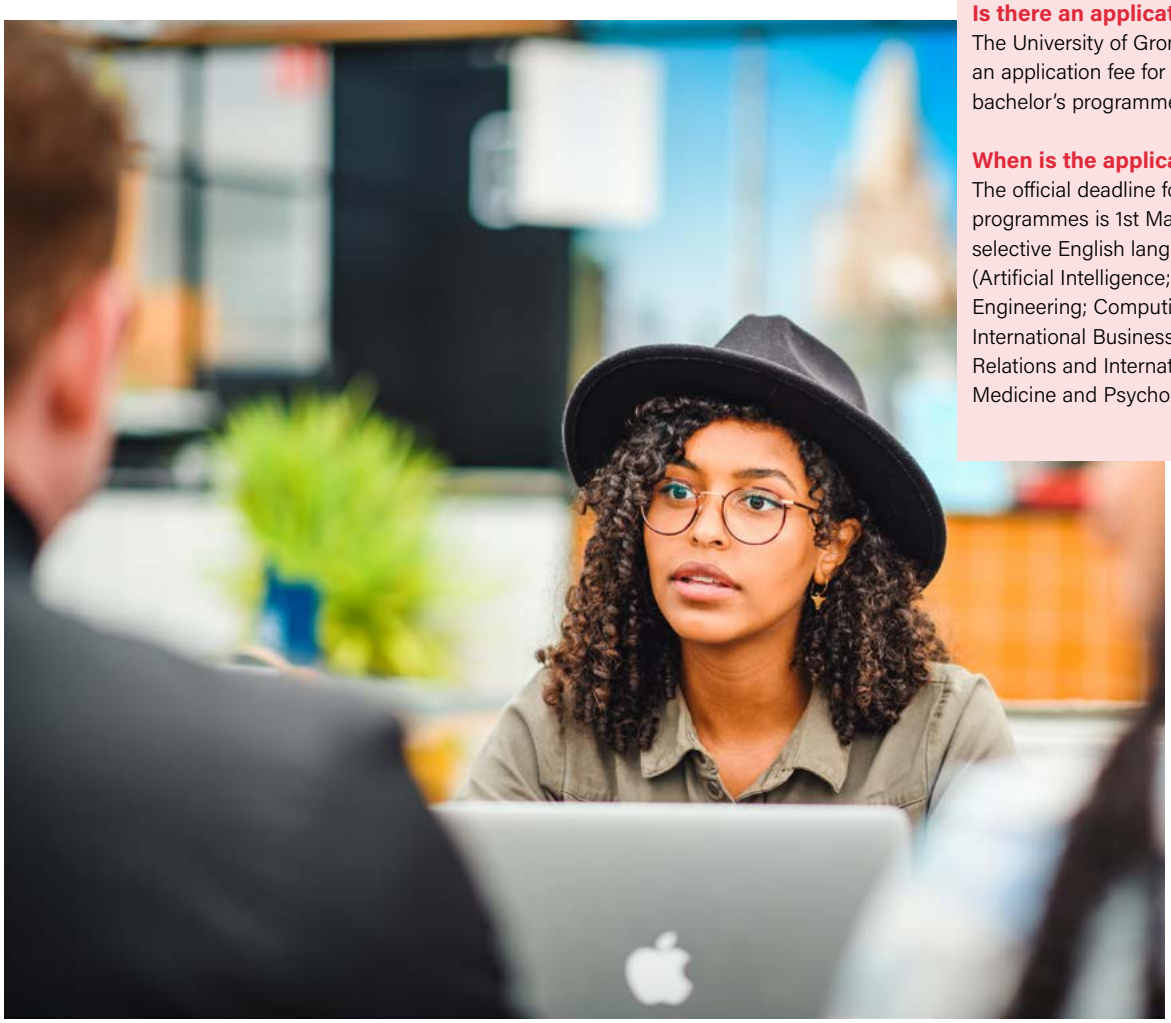
FAQ's

Do we need to have all qualifications/ transcripts before applying?
Applicants do not need to have all their qualifications before submitting an application. If they have not yet graduated, or have not yet received a final diploma, this can be indicated when applying and provisional grades can be submitted.

How long will it take to get a decision on an application?
We aim to get back to applicants soon after we receive the application and endeavour to make a decision for bachelor's applications within 30 days (excluding selective/ numerus fixus programmes). Please be aware that this can take longer when approaching the deadline and if no response is received after 30 days, please contact the Admissions Office.

Is there an application fee?
The University of Groningen does not charge an application fee for applications to our bachelor's programmes.

When is the application deadline?
The official deadline for most bachelor's programmes is 1st May. The deadline for selective English language programmes (Artificial Intelligence; Biology; Biomedical Engineering; Computing Science; International Business; International Relations and International Organisation; Medicine and Psychology) is 15th January.



Studielink

Studielink is responsible for managing applications to university programmes in the Netherlands. You are advised to submit applications as early as possible and students can apply for up to four programmes at a time, of which only one can be part of a selection process.

The selection procedure (or Numerus Fixus) is for programmes that are very popular and may require an extra step prior to students being admitted. Once we have been notified of an application by Studielink, further details will be sent of the procedure (assuming minimum entry requirements are met). Please apply at **www.rug.studielink.nl**

TIMELINE

1 October

Studielink application system opens

15 January (23:59)*

Application deadline for for selective/numerus fixus programmes (Artificial Intelligence; Biology; Biomedical Engineering; Computing Science; International Business; International Relations & International Organisation; Medicine and Psychology).

1 May (23:59)*

Application deadline for all other bachelor's programmes.

1st Monday in September

Academic year starts

* Central European Time (CET)

The Studielink application is an easy online process with the following steps:

1. You create a Studielink account at **www.studielink.nl**
2. Log in with your new account and change your password.
3. Fill out details about your previous education.
4. Choose the programme(s) you wish to apply for.
5. Submit the application by clicking the **'confirm'** button.
6. After creating the application in Studielink, you will receive a message from Studielink stating that the University of Groningen has to verify your educational background and/or personal details. To do this the University uses its own Online Application System (OAS). A separate email will be sent with the login details for OAS. This email will also be visible in the Studielink inbox.
7. You log into OAS and complete your application by uploading the required application documents in a PDF format.
8. Submit the application.

An application will not reach the University of Groningen Admissions Office until it has been submitted in OAS. If an application is not complete before the deadline, it will not be processed.

Fees and living expenses

The fees paid and the support available will depend on whether a student is classed as an EU/EEA or non-EU/EEA student, which usually depends on the passport they hold. Our tuition fee information provides an idea of what will be paid for the first year of a programme.

How do Groningen and Leeuwarden compare with other places?

Both cities have many advantages which make them cheaper places to study compared to other university cities. These include:

- compact cities therefore you won't have to travel far between the university buildings, city centre shops and your accommodation.
- both are known as cycling cities with bicycle-only routes – the fact it is all flat makes cycling a great deal easier.

It is roughly € 100 cheaper per month to live in Leeuwarden than Groningen.

Tuition fees 2022/23

The University of Groningen tuition fees for regular degree programmes depend on government regulations and are the same for Dutch and European Union/European Economic Area citizens (all EU countries plus Norway, Switzerland, Liechtenstein and Iceland).

Funding and scholarships

In recognition of the outstanding talent of many international students, the University of Groningen is committed to attracting, supporting and rewarding the best students by offering a number of scholarships. Alongside our own scholarship programmes, there are a number of available scholarships via external national and international organisations.

More information

www.rug.nl/grantfinder

Living expenses

For the 2022/23 academic year, the University estimates that living costs will be €9,500 – €12,000 per year (excluding tuition fees). These estimates are for 12 months and include accommodation, utility bills, food, books, clothes, travel, mobile phone and social expenses.

EU/EEA STUDENTS	Fees 2022 entry
All bachelor's and master's degree programmes	€ 2,209
University College Groningen and University College Fryslân	€ 4,249*

* The 2022 EU/EEA tuition fees will be confirmed by UCG and UCF from November 2021.

NON-EU/EEA STUDENTS**	Fees 2022 entry
Medicine	€ 32,000
University College Groningen and University College Fryslân	€ 12,600
Science and Engineering	€ 14,000
All other international bachelor's degree programmes	€ 9,500

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check **www.rug.nl/tuitionfees** for up-to-date tuition fee information.

LIVING EXPENSES		
Essentials		**Cost per calendar year**
Study costs	Study costs, textbooks, readers, printing	€ 650
Housing	Rent (including energy, internet bills, excluding administration costs and security deposit of approximately one month rent)	€ 6,000
Food and drinks		€ 3,000
Travel expenses	Bus, train, bike	€ 600
Insurance	Health care, third-party, fire and theft insurance	€ 1,440
Total costs		**€ 11,690**

Bachelor's Programmes

Faculty of Arts

American Studies	20
Art History	21
Arts, Culture and Media	22
Communication and Information Studies	23
English Language and Culture	24
European Languages and Cultures	25
History	26
International Relations and International Organisation	27
Media Studies	28
Minorities & Multilingualism	29

Faculty of Behavioural and Social Sciences

Psychology	30

Faculty of Economics and Business

Economics and Business Economics	31
Econometrics and Operations Research	32
International Business	33

Faculty of Law

International and European Law	34

Faculty of Medical Sciences

Medicine	35

Faculty of Philosophy

Philosophy of a Specific Discipline	36

Faculty of Science and Engineering

Applied Mathematics	37
Applied Physics	38
Artificial Intelligence	39
Astronomy	40
Biology	41
Biomedical Engineering	42
Chemical Engineering	43
Chemistry	44
Computing Science	45
Life Science and Technology	46
Mathematics	47
Pharmacy	48
Physics	49

Faculty of Spatial Sciences

Human Geography and Planning	50
Spatial Planning and Design	51

Faculty of Theology and Religious Studies

Religious Studies	52

University College Fryslân

Global Responsibility and Leadership	53

University College Groningen

Liberal Arts and Sciences	54

American Studies

- **You get a chance to study American society from a range of perspectives: popular culture, history, literature, politics, economics, religion and race.**
- **You get to explore the U.S.'s international relations (with a special focus on Latin America).**
- **This BA is the only accredited and fully English-taught American Studies programme in the Netherlands.**

How did Donald Trump become president of the United States? How did Nike sneakers become associated with 'Black Lives Matter'? How did gun ownership become a central question of American politics? What do people really mean when they say gender is 'performative'?

Is this the programme for you?

You want to understand how U.S. politics became so 'polarized', or how the Kardashians became so famous. You want to make a podcast about Stranger Things, or write a convincing editorial about U.S. immigration, or read a novel in Spanish. You want to work at an embassy, or write for a T.V. show, or pursue a doctoral degree at a top U.S. university. Then American Studies is the perfect program for you!

Career opportunities

Journalism, international business, postgraduate research, teaching, diplomacy, media relations, marketing and communications, cultural and arts organization, politics, law, NGOs.

Robert Lagestee

In my own experience, the American Studies community is a small but diverse one. That is why I easily found my place here. I was able to tailor my research to my own personal interests whilst still discovering new things. This programme lets you maintain your own unique identity and build your skills, reputation, knowledge and research of your interests.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/american-studies

Course examples

YEAR 1
- The American Century and Beyond
- Race, Class, Gender
- Rhetoric and Composition

YEAR 2
- The Americas III
- Theories of Culture II: Media Theory
- Theories of Culture II: Political Theory

YEAR 3
- Minor or Exchange
- Mobility, Migration, Transculturation
- Theories of Culture III: Consumer Nation

Art History

- **International faculty with broad expertise.**
- **The programme offers you the opportunity to take part in two field trips abroad, for instance, to Berlin or Florence.**
- **You will have the chance to follow a balanced combination of art historical, art theoretical, and career-oriented courses.**

Why and how is art produced? Who draws, paints, builds and creates it, and for whom? What is art worth and how is it preserved? Who decides what is art? Is the landscape a product of nature or of art? Are historical city centres more important than post-war suburbs? Are museums for everyone? Art, architecture and landscape historians have answers to all these questions.

Is this the programme for you?

Are you fascinated by art, architecture and landscapes? Do you want to know why art is important to society? Do you have good writing and language skills? As an Art History student, it is important that you do not simply label a work of art as 'beautiful' or 'ugly', but express curiosity and open-mindedness about the underlying messages and concepts.

Career opportunities

Curator, exhibition producer, policy advisor, restorer, jobs at a cultural institution, museum or auction house, conservation of monuments or natural landscapes.

Belle de Rode

The world of art is a dynamic one, and this makes it an exciting field of study. What I like about the degree programme at the University of Groningen is that you can specialize in an area that appeals to you. For me that is contemporary art. For my Bachelor's thesis I'm investigating policy options for the Groninger Museum in regard to regional art. This is a good opportunity for me to get to know the museum world.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/art-history

Course examples

YEAR 1
- Beyond Antiquity: Architecture and Visual Arts 400-1400
- Towards Modernity: Architecture & Landscapes and Visual Arts 1400-1800
- Paint to Pixel: Artist's Materials & Techniques Through the Ages

YEAR 2
- Art Now
- Art & Environment
- Architecture, City & Freedom

YEAR 3
- Between the Still and Moving Image
- Seminar Early Modern Art
- Field Trips

Arts, Culture and Media

- **Our Arts, Culture and Media bachelor's degree will offer you the perfect combination of theory and practice, as well as providing you with a solid understanding of various art forms, from Music and Film to Literature and the Visual Arts.**
- **We place a strong emphasis on interdisciplinary learning.**
- **You will be able to choose among two specialisation frameworks: Analysis and Criticism or Policy and Marketing.**

How do art events contribute to our collective cultural memory, individual identity, and sense of place? In what ways are the audio-visual arts – such as film, theatre and music – interrelated and which artistic values do they share? What is the specific impact of audio-visual media on individuals and culture? As a student in our BA Arts, Culture and Media programme you will be addressing these kinds of questions.

Is this the programme for you?

Are you interested in how art institutions impact our quality of life? Do you want to know how films or pop music mediate consciousness, or how we use the arts to express emotions? Do you enjoy uncovering the narratives of theatre, fiction or film? Or examining the structures of different genres, from classical sonatas to blues songs?

Career opportunities

Advertising, marketing, curation, arts programme maker, public relations, policy, event management and digital media.

Joanna Zienkiewicz

As I am fascinated with arts – particularly theatre and music – I chose this degree programme because it addresses my interest broadly, while still providing the possibility to specialize later on. Theoretical research and analyzing particular art disciplines is an important part of the programme, but you also attend events, create your own artistic projects, and get a glimpse into philosophy, entrepreneurship or history. Groningen has a really interesting art scene which you are brought into contact with as a student and eventually, you can discover your own place in the pool of possibilities – and become a true expert in the art field that interests you the most.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/arts-culture-and-media

Course examples

YEAR 1
- Analysis, Theory and History
- Sociology of Arts
- Introduction to Audiovisual Arts

YEAR 2
- Empirical Methods: Arts Policy Education
- Mediality to Inter-Mediality
- Management and Entrepreneurship

YEAR 3
- Arts in Practice
- Film/Music/Theatre Advanced Seminar
- BA thesis in Arts, Culture and Media

Communication and Information Studies

- **CIS will introduce you to an interdisciplinary world in which you will use insights from linguistics, psychology, sociology and marketing.**
- **CIS relates communication to the goals of the sender, the medium that is used and the characteristics of the target group.**
- **CIS also includes course units on a variety of research methods and statistics. These course units will teach you how you can access research into communication processes and how you can set up your own research project.**

Communication plays a crucial role in society. How can people be persuaded to live a healthy life? How can teachers find out what students understand? How can doctors successfully communicate with low-literate patients? These are all questions about Communication design.

Is this the programme for you?

Are you interested in communication, language, cognition and interpersonal relations? Do you want to find out how you make texts, conversations and other communication media understandable, attractive and persuasive for as many people as possible? Would you like to study which factors play a role in this? Then this programme might be right up your street. Students of CIS enjoy taking an analytical approach to communication processes and have good oral and written communication skills.

Career opportunities

Communications officer, communications consultant, editor, communications manager, press officer, media advisor, web coordinator, journalist, marketing manager.

Luise Leis

CIS is a language based, interdisciplinary programme in which you will learn all about the processes involved in communication and the products that result from them. From an eye-gaze to full on conversations, from pictures to Facebook messages, every part of communicative behaviour will be analysed and soon you will notice aspects from your study everywhere around you. The study has aspects of linguistics, psychology, marketing and sociology, which was and still is very appealing to me.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/communication-and-information-studies

Course examples

YEAR 1
- Intercultural Communication
- Text Analysis
- Persuasive Communication

YEAR 2
- Corporate and Marketing Communication
- Questionnaire and Interview Design
- Social Media

YEAR 3
- Case Study
- BA Thesis
- Health Communication

English Language and Culture

- **You will be able to examine key language issues from various perspectives and trace the rise of English in order to fully understand its role as a global language today.**
- **You may specialize if you wish in Pre-modern Literature and Culture, Modern Literature and Culture, and English Linguistics, but you don't have to.**
- **The programme at the UG examines English Language texts across the entire range of genres and modes of writing, while placing a strong emphasis on the cultural context of literary production.**

Is English your favourite subject at school? How does the Netflix series Bridgerton combine the novels of Jane Austen with modern thoughts on women, race and equality? In an ever-growing diverse society, how will studying linguistics improve your communication and analytical skills? As a student in the English Language and Culture programme, you will learn to think critically, whilst studying the English Language from all possible angles.

Is this the programme for you?

You enjoy English at school and love language in general, but particularly the English language. You have to be good at English, and highly motivated to learn how you can master it to perfection as well as be interested in its history and culture. You love reading and want to be able to place literary works in their historical context.

Career opportunities

Marketing executive, public relations, publishing; media and journalism, business and industry, charities and public administration; copywriter, teaching in high schools and universities; academic researcher.

Mathijs Huiskes

Studying literature from all periods like Renaissance literature or Victorian literature and learning how to analyse it from different perspectives (using various literary theories) is something I love. Literature reflects the society or culture of a period very well, and I think these courses are often very interesting. In the linguistics courses, you will come in contact with the history of the English language and will learn how it is structured.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/english-language-and-culture

Course examples

YEAR 1
- Knowledge and Power
- Sociolinguistics
- Chaucer

YEAR 2
- Saints and Sinners in Medieval England (Willem: als dit te lang is kun je hier 'Saints and Sinners' van maken)
- Shakespeare and Early Modern English Literature
- English Linguistics: Meaning and Use

YEAR 3
- Controversial Literature
- Language Variation
- Beowulf

European Languages and Cultures

- **You will study Europe from a linguistic, cultural and political perspective.**
- **You will have the opportunity to immerse yourself in one (or two!) European languages and study one semester abroad.**
- **You can tailor your own personal study programme by choosing one out of eight languages, one out of three academic disciplines and one out of 17 electives.**

Do you want to learn everything there is to know about one or more European languages and cultures? Do you want to explore the links between one country's language, history, literature and its broader social and political developments? Do you want to gain insight into contemporary Europe and its role in a globalized world, from a linguistic, cultural, and political perspective?

Is this the programme for you?

Are you passionate about foreign languages? Do you want to know more about Europe, its history, and its present role in the world? Are you interested in literature and culture, politics, or linguistics? The various modules that form this degree programme will allow you to develop your interest in these subject areas.

Career opportunities

Creative industries (publishing, journalism), international organization officer, translator and interpreter, marketing executive, local and central government.

Imke Kok

I decided to study European Languages and Cultures because it was not enough for me to just study a language. What really appeals to me in this programme is its European aspect. It is possible to study various European languages with the help of an extensive team of lecturers, and you also learn a lot about the concept of Europe. One of my favourite courses this year was Studying Europe in which you research Europe as a whole. European identity and history were the main themes.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/european-languages-and-cultures

Course examples

YEAR 1
- Studying Europe
- Reading Modern Europe
- European Politics and Society

YEAR 2
- Imagining Europe's Tomorrow
- Language and Power
- Comparative Politics

YEAR 3
- Language in the Mind
- Political Cultures in Europe
- Approaches to Culture

History

- **Our programme is the only History BA in the Netherlands to offer a comprehensive background in the main historical developments from Antiquity to the present, from a variety of theoretical, socio-economic, political, and cultural perspectives.**
- **Our programme ranked first in the 2017 Elsevier Best Study ranking and the Dutch National Student Survey, which assess programmes' curricula, facilities, educational quality, and communications.**
- **The programme offers more choice of subjects, periods, regions, or approaches than other Dutch History BAs.**

Are you curious about what connects past and present? Are you eager to learn more about historical events' backgrounds and consequences? In this programme, learning about the past will help you make better sense of our society and world affairs today. Our History BA equips you with the tools to understand and critically analyse political, socio-economic and cultural phenomena.

Is this the programme for you?

Do you wonder what makes society tick? Are you a critical thinker who doesn't believe everything you are told? Have you ever asked how the stories that societies tell about themselves came to be? Do you want to learn how to interpret and use the rich range of sources that constitute our historical heritage? Do you want to write history?

Career opportunities

Alumni hold a wide variety of stimulating careers that require research, excellent communication skills, and information management, from TV and radio producer, scriptwriter, or journalist to museum director, archivist, librarian, management consultant, marketing or retail manager, project leader, government policymaker, political party employee, academic researcher, and high school teacher.

Reinder Klinkhamer

When I started my BA in History at the University of Groningen three years ago, I had completely wrong expectations. After the first few months of studying History, however, I realized that the course was much more than I had expected. In addition to learning about the past, I also acquired new important skills – how to critically analyze historical events and produce historical documents. The fact that these skills are directly applicable to my daily life made me even more enthusiastic about my studies.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/history

Course examples

YEAR 1
- Globalisation: Economic and Social History
- Regional Perspectives (choice of East Asia, America, the Mediterranean World, Europe, Central and Eastern Europe, Africa)
- Medieval History

YEAR 2
- Theme Cultural History (e.g., The New Woman in China, Love and Sexuality in the Middle Ages
- Regional Topics
- Sources and Methods: Transnational History

YEAR 3
- Theory of History I & II
- American History: Civil War and Capitalism
- Asia: Cultures, Identities and Identity Politics

International Relations and International Organisation

- **Our BA in International Relations and International Organisation addresses political questions on a global level, thus offering an interdisciplinary and wide-ranging preparation in the fields of international relations, law and economics.**
- **Within the programme you can compile your own profile by choosing a Minor, for example Development Studies or Middle Eastern Studies.**
- **Students choose 30 ECTS in one of the languages on offer – and have the option of studying abroad in countries where they can practice their language skills.**

How do countries choose whether to cooperate with one another? Why has it been difficult to find consensus on global health and environmental issues? In our globally interdependent world – and especially within the European Union – understanding events at home means understanding what is happening in the world. If you are interested in issues such as these, the English-taught International Relations and International Organisation (IRIO) programme might be right for you!

Is this the programme for you?

You need to have a broad interest in international news and the different perspectives on international issues, as well as a critical personality – you ask questions until you have all the answers. In addition, independence and flexibility are useful assets in the IRIO programme as well as in the international job market.

Career opportunities

International policy advisor, lobbyist, international executive, press officer, journalist, academic researcher, jobs in international politics and organisations.

Femke Dam

I started this programme as an idealist. I wanted to know what makes the world go round and how to improve it. IRIO is an excellent way to explore world politics and all the things that are involved. For my Bachelor's thesis, I wrote about images and how they influence international relations – more specifically, how infographics convey climate change information. I'm very interested in how International Relations are affected by the digital age.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

IRIO has a fixed quota (*numerus fixus*), for which a selection takes place.

More information
www.rug.nl/bachelors/irio

Course examples

YEAR 1
- International Politics
- International and European Law
- Introduction to Economics

YEAR 2
- Theories of International Relations
- Policy and Governance
- Political Economy of Monetary Relations

YEAR 3
- Political Economy of Trade
- International Law
- Bachelor's Thesis

Media Studies

- **The programme focuses on the informative and social functions of media, and provides a strong comparative perspective on the cultural, international, historical, economic and political contexts of media.**
- **The programme puts strong emphasis on the practices of media production and use, and has a focus on professional skills.**
- **Learning labs, seminars and innovative assessments (like production of videos, posters, or a festival) constitute a highly participatory learning environment, allowing students to develop their practical skills and creativity.**

Media are at the heart of contemporary life. From social networks to traditional print media, from websites to television, from search engines to apps. Our understanding of the world is shaped by media, as they have a major impact not only on how we communicate with one another, but also on how societies are organized – culturally, politically and economically. This degree provides you with the knowledge and skills to build your professional career in the media industries and media-related jobs in other fields.

Is this the programme for you?

Do you wonder how and why Google and Facebook have become such economic and socially dominant players? Do you want to know how your favourite TV show develops from script to screen? Are you intrigued by how people's lives are impacted by use of their smartphones? If you are fascinated by new and traditional media and have an inquisitive and analytical personality this programme is perfect for you.

Career opportunities

Social media analyst, web-TV producer, community manager; policy advisor, digital strategy consultant, media and journalism; marketing and public relations.

Jaron Elbers

Before starting Media Studies, I thought I had a pretty good idea about what 'media' was. But from the first day on, I got to know about media and everything around them in ways that I'd never considered before. It showed me the relevance of studying media in every aspect possible, it taught me about all the ways media are not only inter-connected with our lives, but frequently are an inherent part of our lives.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/media-studies

Course examples

YEAR 1
- Social Lab
- Professional Writing
- Media Platforms and Industries

YEAR 2
- Audiovisual Culture
- Analysing Production and Use
- Choice from 1 out of 5 profile tracks

YEAR 3
- Thinkers and Theories
- Research Seminar
- Study abroad or internship

Minorities and Multilingualism

- **Our BA in Minorities and Multilingualism has been ranked as 'Top-Rated Programme' (Keuzegids 2021).**
- **The programme explores the political and historical aspects of minorities in combination with courses in linguistics and multilingualism.**
- **You will become an expert in the field of minority groups and multilingualism. We also offer you the opportunity to specialize in Frisian or another minority language.**

How can you manage diversity; of cultures and languages? How do minorities shape social development? Does the discussion on inclusion and diversity ask for new leadership skills? Our Bachelor's programme Minorities and Multilingualism will train you to become such a diversity manager. You will learn about the languages, cultures, histories and politics of ethnolinguistic minorities across the globe.

Is this the programme for you?

Are you fascinated by languages and communication? Are you interested in cultural differences between groups of people? Do you want to learn more about international politics and history, how to do research on issues of minorities and multilingualism, formulate solutions, provide consultancy and produce policy advice? Then the BA Minorities and Multilingualism is the right choice for you.

Career opportunities

Diversity manager and advisor, policy maker on language/culture/heritage, journalist, translator, communication expert, teacher, academic researcher/university lecturer.

Tess Beukema

I love how Minorities and Multilingualism teaches students to reflect on problems critically and from linguistic, cultural, and political perspectives. Minorities are not just confined to the classic cases, such as the Catalans in Spain or the Scots in Scotland. We learn about linguistic minorities too, and deal with power relations between racial or cultural groups. I think that getting to know more about diversity is important in the 21st century, while it is also definitely useful for my own future plans.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/minorities-multilingualism

Course examples

YEAR 1
- History of European Minorities
- Multilingualism
- Minority Languages

YEAR 2
- Representations in Arts and Literature
- Into the local laboratory: Cultural Heritage
- Into the local laboratory: Language

YEAR 3
- Diversity management
- Diversity in education
- Bachelor's Thesis

Psychology

- **The Psychology department in Groningen is ranked #40 in the world according to World University Ranking.**
- **Very broad programme based on recognized and versatile expertise.**
- **Learn from and interact with an international group of students and instructors.**
- **Strong emphasis on integration research results.**

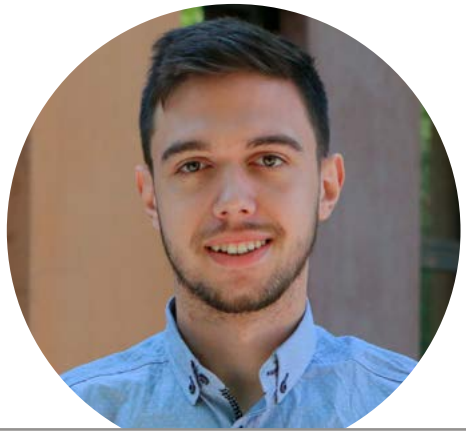
Why is one person less likely to be overworked than another? What causes agoraphobia? Does your personality change as you get older? What happens in your brain when you use drugs or alcohol? Are you ready for the many challenges of studying behaviour, awareness and the brain? As a Psychology student, you will study the behaviour of people, their capabilities and their limitations.

Is this the programme for you?

You are fascinated by people and their behaviour, you are interested in learning about the various theories explaining human behaviour and you are a good listener. If you are a curious and analytical person and you feel at ease with yourself and you are curious, then our BSc in Psychology is perfect for you.

Career opportunities

Clinical psychologist, social researcher, academic researcher, neuropsychologist, selection and recruitment psychologist.



Antony Pinakoulakis

I chose to study the Psychology bachelor's programme because I have always been fascinated by the human mind, the brain and human behaviour. We know so much, yet so little about these topics. Why do we dream? How can we improve memory? What does it mean to be self-actualized? There are so many questions that still have to be answered and there are so many things waiting to be discovered. This makes psychology a truly compelling and rewarding field to study.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

Psychology has a fixed quota (Numerus Fixus). Places will be allocated by selection.

More information
www.rug.nl/bachelors/psychology-en

Course examples

YEAR 1
- Introduction to Psychology
- Biopsychology
- Personality and Individual Differences

YEAR 2
- Communication and Diagnostic Skills
- Clinical Psychology
- Cognitive Psychology

YEAR 3
- Sport and Performance Psychology
- Human Error
- Understanding Psychopathology

Economics and Business Economics

- **Specialization in Business Economics; Economics; or Economic Development and Globalization.**
- **Opportunity to minor in a subject from another faculty at the University of Groningen or study abroad at one of our partner universities around the world.**
- **The Faculty of Economics and Business at the University of Groningen belongs to the 1% of business schools worldwide with both EQUIS and AACSB accreditations.**

Should Apple finance its new iPhone factory by issuing new stocks? What are the benefits of a common currency in Europe? Which threats and opportunities arise as a result of economic globalization? These are the kinds of issues that will be discussed in the Economics and Business Economics programme.

Is this the programme for you?

You are interested in economic topics such as banking, the stock market or the consequences of Brexit. You dream of running an organization or becoming an economic policy maker. You are quick to analyse and understand economic figures. You are adaptable and open to international differences.

Career opportunities

Many graduates start their career as financial or asset manager, business development consultant, trading assistant; risk analyst, policy maker or researcher (e.g. at a university, government, bank, or research institute).

Karishma Hiro Ramchand

I chose this programme because it allowed me to touch upon some main economic subjects such as Microeconomics and Macroeconomics but also on topics like Philosophy and Business Ethics. I particularly like that I could pick a specialisation – ED&G – where I learned about the economic impact of a globalized world and how decisions and policies are made within such an environment. The lectures and tutorials enhance the learning process and make it easier to structure the theory and put it into practice.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/ebe

Course examples

YEAR 1
- Asset Pricing and Capital Budgeting
- Microeconomics: Consumers & Firms
- International Economics

YEAR 2
- Management Accounting
- Monetary Macroeconomics
- Economics of Banking

YEAR 3
- Corporate Finance
- Political Economics
- Growth and Development Economics

EQUIS ACCREDITED AACSB ACCREDITED

Econometrics and Operations Research

- **The strength of the programme lies in its combination of four fields: Econometrics, Operations Research, Actuarial Studies and Mathematical Economics.**
- **You work on developing skills in estimating the impact of economic events and how to base decisions on quantitative analysis.**
- **The Faculty of Economics and Business at the University of Groningen belongs to the 1% of business schools worldwide with both EQUIS and AACSB accreditations.**

How many call centre operators would you need to achieve a three-minute maximum waiting time? How can real-time sensor measurements be used for operating and maintaining offshore wind parks? How should an insurance company price its car insurance? These are the kind of problems that are solved in the Econometrics and Operations Research programme.

Is this the programme for you?

If you like economics, mathematics and statistics, enjoy finding solutions to complex problems and have an interest in mathematical modelling and software-assisted computations, then this could be the programme for you. Econometrics and Operations Research combines all of these, shows you how to apply them to a wide range of problems and teaches you how to communicate quantitative results.

Career opportunities

Many graduates start their career as a quantitative analyst, researcher (university, government, research institute), actuary (insurance, pensions), risk manager (financial sector) or a consultant in, for instance, logistics, finance, insurance, or marketing.

Femke van den Bos

The programme in Groningen is relatively small scale. This allows for interaction among students as well as between students and professors and it helps to understand all the courses and to learn as much as possible. I like mathematics and wanted to apply this to economics, for this EOR is the perfect study. My advice for new students is to work hard to pass all your courses but also take enough time to enjoy the great student life in Groningen.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/eor

Course examples

YEAR 1
- Finance
- Linear Algebra
- Probability Distributions

YEAR 2
- Macroeconomics
- Queueing Theory and Simulation
- Difference- & Differential Equations

YEAR 3
- First semester: Minor programme (various possibilities)
- Game Theory
- Bachelor's thesis

EQUIS ACCREDITED AACSB ACCREDITED

International Business

- **The programme has an international and multidisciplinary focus, combining courses in Management, Sociology, Psychology, Law, and Economics.**
- **In your 3rd year you will study abroad for one semester at one of over 200 exchange partners in 50 different countries.**
- **The Faculty of Economics and Business at the University of Groningen belongs to the 1% of business schools worldwide with both EQUIS and AACSB accreditations.**

What is the difference between doing business in India and in Germany? How does a firm deal with the opportunities and challenges of internationalization? Setting up a factory abroad or expanding your market to other countries is no easy task – what do you need to know in order to do so successfully? If you find business cases like these appealing, then International Business might be the right choice for you.

Is this the programme for you?

International Business is challenging and fast-paced. You need to be hard-working, have a good command of English and be able to understand mathematical expressions, quantitative research methods, and economics. Most importantly, however, you need to be deeply interested in the broad range of issues that make doing business different from country to country. Learning from lecturers and fellow students from diverse nationalities is therefore essential.

Career opportunities

Many graduates start their career as an export manager, international marketer, international sales manager, international product manager, human resources manager, consultant or as a researcher (e.g. at a university, in government, or a research institute).

Bruno Alecchi

The International Business programme allows me to broaden my professional connections whilst interacting with people from all around the world. What I like most about the programme is how effectively students are being prepared for the corporate world. For example, we work in small-group tutorials and teams on designing new business products for companies. My advice for new students is to stay on top of their studies, as the first year is the most eventful.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

International Business has a fixed quota (numerus fixus), for which a selection takes place.

More information
www.rug.nl/bachelors/ib

Course examples

YEAR 1
- International Marketing
- Organizational Behaviour
- Global Supply Chain Management

YEAR 2
- Finance and Risk Management
- Global Business History
- Ethics and International Business

YEAR 3
- International Strategic Management
- International Financial Management
- Bachelor's Thesis

EQUIS ACCREDITED AACSB ACCREDITED

International and European Law

- **The focus on European and international law provide students with an extensive legal framework that goes beyond one single national legal system.**
- **New specialization in Technology Law available.**
- **Mandatory period of study abroad as part of the curriculum.**

Does an international treaty take priority over national laws? And if so, is that the case for every state in the world? Can citizens themselves take a complaint to the European Court of Human Rights or the European Court of Justice? As a graduate of our Bachelor of Laws (LLB) in International and European Law you will be able to answer questions like these.

Is this the programme for you?

You want to develop a comprehensive understanding of legal matters in today's globalized and interconnected world and you are interested in learning how international and European law function. Our LLB programme in Inter-national and European Law will equip you with the right skills to pursue a professional career in an international legal environment.

Career opportunities

Civil servants for national ministries, the EU, the UN or other international organizations, careers in diplomacy, positions in non-governmental organizations (such as Amnesty International), careers in the international commercial sector (such as Unilever or Shell).

Asmo Esser

If I had to describe the Bachelor's programme in International and European Law in three words they would be diverse, interesting and challenging. The programme is tructured in a way which gives you a good understanding and comparative perspective on several fields of law. The teaching staff is always willing to assist with their expertise if you need help. I really enjoy studying with a group of friends from all over the world and made unforgettable experiences during the mandatory exchange semester.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/law/llb

Course examples

YEAR 1
- Introduction to International and European Law
- Criminal Law
- Legal History

YEAR 2
- Law of the European Union
- Private International Business Law
- Property Law

YEAR 3
- Study Abroad
- Research Colloquium
- Commercial Dispute Resolution

As of the 2020-2021 academic year, students can choose to either continue with the regular LLB programme, or choose to pursue a specialized track in Technology Law for the second and third years of study. Please visit our website for details: **www.rug.nl/law/llb**

Medicine

- **Second oldest medical faculty in the Netherlands, established in 1614.**
- **The curriculum at the University of Groningen is a problem-based programme which is both patient and student centred.**
- **Our new teaching programme offers one English taught learning community: Global Health.**

What is the risk of catching tuberculosis these days? Is there a way to measure patient safety? Can stem cells be used to treat diabetes? What are the medical aspects of obesity and what medical specialities are concerned with the treatment of these? Medicine teaches you to put medical knowledge into practice. You learn how to make patients better or help them to accept their condition.

Is this the programme for you?

This programme suits you if you are interested in people and want to help improve the lives of those suffering ill health; you are interested in healthcare; you are a good communicator, a team player and you can handle pressure. In addition to theoretical knowledge, you will develop practical skills and a professional attitude. A medical degree involves six years of intense studying before you take your final exams, which means you will need a lot of dedication and passion to complete the course.

Career opportunities

GP, medical specialist, company physician, psychiatrist, physician-researcher, policy worker in a hospital or government ministry.

Jan Torge Fahl

To me, medicine is the perfect combination of studying the human body and using my social skills. I joined the Global Health Learning Community because the global perspective of healthcare appeals to me, and I can picture myself working abroad as a doctor. Collaboration with other students is important, as we mostly work in groups. I find the proximity to the UMCG and clinical staff very beneficial. The clinicians and researchers are very approachable and happy to help. I currently work on a research project at the Department of Orthopedic Oncology. This way, I can get a feel for working in a clinical setting, and I hope to publish my first scientific article next year.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 32,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
University Medical Centre Groningen (UMCG)

Medicine has a fixed quota (numerus fixus), for which a selection takes place.

More information
www.rug.nl/bachelors/medicine

Course examples

YEAR 1
- Causes of diseases
- Competency development
- Progress test

YEAR 2
- Causes of diseases
- Competency development
- Electives

YEAR 3
- Causes of diseases
- Competency development
- Electives

Philosophy of a Specific Discipline

- **The University of Groningen is one of two universities offering this degree in the Netherlands.**
- **You can enrol in this programme after the first year of your Bachelor's programme, while continuing to study your chosen degree.**
- **Students enrolled in a Bachelor's programme abroad, can enter after completion of 120 ECTS at the home university. If both study programmes are successfully completed, you will receive two Bachelor's degrees.**

Are you are a student in any Bachelor's programme at the University of Groningen? Do you want to learn to critically reflect on the fundamental assumptions of your main study subject? Philosophy of a Specific Discipline is a combination programme and you can combine this with your Bachelor's degree. After an introduction in Philosophy, you can choose advanced courses in Philosophy of Science, Ethics, Political Philosophy or History of Philosophy.

Is this the programme for you?

What makes natural science 'scientific'? What is a just law? Do animals have rights? You are curious about what science can tell us about free will and ethical responsibilities. Philosophy addresses some of the most complex questions that have ever been asked. If you find such questions fascinating and you want to develop your analytical and dialectical skills, then this programme is the right fit for you.

Career opportunities

Education (e.g. lecturers in university, universities of applied sciences, or teachers in high schools), journalism and communication, business, policy and research (ministers, municipalities, political parties, universities, NGOs, etc.).

Patrick Leacy

It was a long and arduous career in engineering that led me to the Faculty of Philosophy. The curriculum of Philosophy of a Specific Scientific Discipline begins with a unique one semester tour of the highlights of philosophy where the engaging lecturers deliver fundamental, invigorating ideas. From modern politics to formal logic to nihilist ethics, there is a surprise in store for everyone and everyone benefits from the breadth of coverage. The second semester offer a range of electives where you can see the practical value in the programme. Whilst the courses are focused and relevant to your interests, the highlight of the programme for me was STUFF - the faculty student association which is welcoming and active.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/philosophy-of-a-specific-discipline

Course examples

- History of Philosophy
- Good and Evil: Introduction to Ethics
- Reasoning and Arguing
- Social and Political Philosophy
- Philosophy of Cognitive Science
- Philosophy of the Humanities
- Philosophy of the Life Sciences
- Philosophy of the Natural Sciences
- Philosophy of the Social Sciences

Applied Mathematics

- **You will gain the opportunity to study a diverse and versatile subject which is oriented to technology and practical applications.**
- **The University of Groningen is one of the few universities to offer degree programmes in both Mathematics and Applied Mathematics.**
- **You will have the opportunity to explore both subjects during your first year, before making your final choice.**

Why do some aircraft experience more drag? How do satellites calculate their orbit? How are partially autonomous vehicles controlled? Applied mathematics uses maths as a tool for engineering and real-life applications in the fields of science, engineering, business, computer science and industry. First you thoroughly analyse the problem and then you translate it into a mathematical model using computer programs.

Is this the programme for you?

You like finding order in the chaos of practical technical problems. You're interested in applying quantitative techniques to solve problems. University (Applied) Mathematics is not the same as maths at secondary school. While some things are similar, you will also discover new areas. If you're interested in mathematics and its real-world uses, while working with specialists from other disciplines, then this is the programme for you.

Career opportunities

Researcher (public or private sector), consultant (engineering and IT sector), data analyst, actuarial scientist, programmer or hardware developer, statistician.

Brayan Shali

I chose Groningen because I wanted to study abroad in English. Groningen provided exactly what I wanted: a choice between Applied Mathematics, Mathematics and programmes in Computer Science and Physics. I like mathematics because of its beauty and universality. It was very clear I would study mathematics but I did not understand the difference between Mathematics and Applied Mathematics. I finally chose Applied Mathematics because I like modelling/abstracting real-world problems and arriving at interesting/useful results by only doing mathematics.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/applied-mathematics

Course examples

YEAR 1
- Computer-aided Problem-solving
- Linear Systems
- Analysis

YEAR 2
- Numerical Mathematics
- Project Systems Theory
- Fluid Dynamics

YEAR 3
- Computational Methods of Science
- Advanced Systems Theory
- Mathematical Modelling

Applied Physics

- **This programme has a strong interdisciplinary orientation, with an emphasis on combinations of subjects such as physics with design studies, nanotechnology, new materials and systems and control engineering.**
- **You can study Applied Physics alongside Physics without having to choose between them right away.**
- **In Groningen your teachers are researchers with a worldwide reputation in their fields.**

How do you make a roll-up computer display? Or translate a principle of physics into an application for a nuclear reactor? Can we take even better images of tumours? Applied physics involves thinking about such technological or practical applications. You will learn to create designs and physical measurement equipment and use your knowledge to solve problems similar to the above.

Is this the programme for you?

You enjoy analysing mathematical and physical problems and conceiving technological applications to help solve them. You enjoyed physics at school and achieved good grades in science subjects in general. You will need to be good at mathematics because physicists use it as a 'language' to describe the universe.

Career opportunities

Research and policy roles with industrial, consultancy or IT companies; special research institutes; environmental protection; banking and insurance; and management consultancy.

Sietske Dijkstra

I decided to study Physics because I love how it can explain all the things that seem commonplace. How do fluids behave? Why is the sky blue? How can you design a fire sprinkler tube? You can also use models to predict something, so that you can optimize devices without actually building them. In Groningen, they offer both applied and theoretical physics, which is why I chose this university. Applied physics mostly concerns devices and materials, making it more tangible.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/applied-physics

Course examples

YEAR 1
- Electricity and Magnetism
- Calculus
- Physics of Modern Technology

YEAR 2
- Electronics and Signal Processing
- Computational Methods
- Quantum Physics

YEAR 3
- Control Engineering
- Solid Mechanics
- Product Design

Artificial Intelligence

- **A unique position in research on autonomous systems, cognitive (neuro)science, machine learning and agent-based modelling.**
- **The programme has a strong practical orientation, drawing on knowledge from various disciplines, including computing science, cognitive psychology, data analysis, linguistics, logic, mathematics and philosophy.**
- **You will learn to understand computer intelligence and machine learning, human intelligence, the brain and linguistics through the use of computer models, and how to use technology to build systems capable of intelligent decisions and actions.**

How do you create an autonomous car? How does a computer recognize speech or emotions? Can software and devices simulate human thought? These kinds of questions are explored in our international Bachelor's degree in Artificial Intelligence. You will learn to conduct research into human and machine intelligence, and to acquire the skills necessary to develop smart and user-friendly products.

Is this the programme for you?

This degree is for people interested in how humans think, linguistics, psychology and neuroscience, as well as in computer science, data science, and logic. If you want to build bridges between technology, the human brain, and society, then this degree programme is perfect for you.

Career opportunities

Academia (Researcher, Professor, Scientific Programmer), Business (AI Specialist, Business Consultant, Data Analyst, Data Scientist, IT Consultant, Machine Learning Engineer, Organisation Consultant, Robotics Engineer, Software Developer, Software Engineer, User Interface Expert) or work in a start-up/as an IT freelancer.

Shikha Surana

This programme is filled not only with very practical and interesting courses but also offers a multitude of opportunities. For example, I became a teaching assistant for courses I found very interesting, such as the Mathematics and Programming courses. Plus, through career events organized by study association Cover, I found a part-time job at a tech company. Lastly, I appreciated the opportunity to choose electives, as I could enhance my programming abilities whilst also following courses outside this faculty.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

Artificial Intelligence has a fixed quota (*numerus fixus*), for which a selection takes place.

More information
www.rug.nl/bachelors/artificial-intelligence

Course examples

YEAR 1
- Algorithms and Data Structures
- Linear Algebra and Multivariable Calculus
- Cognitive Psychology

YEAR 2
- Architectures of Intelligence
- Advanced Logic
- Neural Networks

YEAR 3
- Advanced Topics in AI
- Neurophysics
- Robotics Practical

Astronomy

- **The Astronomy programme at the University of Groningen is ranked the best in the Netherlands by Elsevier, and you will be joining the best astronomy scholars in the world.**
- **Close connections with the research institutes of SRON (space instruments) and ASTRON (radio astronomy).**
- **Classes are mostly kept small, with only 20 to 30 students, to allow you the maximum in contact hours.**

What can be observed with the Westerbork synthesis radio telescope? How are stars born? Is there a big black hole in the middle of the Milky Way? If you find these questions fascinating, then our BSc in Astronomy is right for you. During this degree you will gain extensive training in the natural sciences and also learn to conduct independent astronomical research.

Is this the programme for you?

Astronomers try to understand the universe in terms of modern physics. To study astronomy, you need to be interested in the natural sciences and fascinated by processes that take place far, far away. You also need to be good at mathematics and physics. Do you also have a special interest in technology? You could specialize in the design and construction of astronomical research instruments.

Career opportunities

Research, consulting, teaching or positions in business (big data companies) which require graduates to be broadly educated in the natural sciences.

Sophie van Mierlo

Astronomy fascinates me because it is the study of the most extreme, mind-boggling phenomena imaginable! In my Bachelor's thesis I will study strong-lensed galaxies. Using a computer model, I will reconstruct an image to understand more about the properties of the lensed source and the lensing galaxy itself. We can use the parameters found, such as the mass of the lensing galaxy, to test our current knowledge of dark matter models. My supervisor participates in the strong lensing group at the Kapteyn Institute.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/astronomy

Course examples

YEAR 1
- Mechanics and Relativity
- Introduction to Astronomy
- Calculus 1 and 2

YEAR 2
- Quantum Physics 1 and 2
- Physics of Galaxies
- Physics of Stars

YEAR 3
- Astroparticle Physics
- Cosmology
- Introduction to Radio Astronomy

Biology

- **After the first semester, you will choose a specialization (major) from: Biomedical Sciences, Ecology and Evolution, Behavioural and Neurosciences, Molecular Life Sciences, or Integrative Biology.**
- **All your lecturers are involved in research, which will help you become acquainted with many new developments in the field of life sciences.**
- **The specialization/major in Biomedical Sciences has close ties with the University Medical Center Groningen, and involves spending a lot of time at the UMCG (especially for practicals).**

How is climate change affecting marine life? What happens in the brain while you are asleep? Biologists aim to describe and explain biodiversity and make predictions about its future development. Biology ranges in scope from sub-molecular processes to ecosystems. Important overlapping fields of biology are: heredity and neuronal aspects of behaviour, molecular biology, host-pathogen interactions, speciation and ecological interactions.

Is this the programme for you?

You are interested in how living organisms work and in knowing more about how diseases like cancer develop. You are interested in the human influence on land and coastal ecosystems. Compared with biology at secondary school, this degree involves more science: you will study more chemistry, mathematics and also some physics. If this appeals to you, then our BSc in Biology will be the perfect choice.

Career opportunities

Researcher in a hospital, environmental consultant, government policy officer, teacher in secondary or higher education, project leader in a nature organization, PhD student at a university.

Jorn Claassen

I chose to study the Biology Bachelor's programme at the University of Groningen because it will give me the opportunity to do a Master's in Marine Biology, which I am really interested in. The flexibility of the degree programme is also great, with many opportunities for different things. I'm currently taking the research course unit in marine biology. You learn how to apply your knowledge, doing practical work such as taking samples. We are researching which factors influence the growth of the vegetation zone in a salt marsh close to the Wadden Sea.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus and UMCG

Biology has a fixed quota (numerus fixus), for which a selection takes place.

More information
www.rug.nl/bachelors/biology

Course examples

YEAR 1
- Basic Cell and Molecular Biology
- Genetics, Ecology and Evolution
- Physiology

YEAR 2
- Marine Biology
- Food and Metabolism
- Big Data in Human Disease

YEAR 3
- Bachelor's Project
- Competences and Professionalisation in Biology
- Biotechnology

Biomedical Engineering

- **The programme offers a unique mix between engineering knowledge and medical applications, between research and design.**
- **The University of Groningen is the only university in the Netherlands where Biomedical Engineering is organized in cooperation with a university medical centre (UMCG). Several courses are given at the UMCG by medical experts.**
- **This programme is the only English-taught Biomedical Engineering bachelor's programme in the Netherlands.**

Would you like to improve healthcare by developing and applying new technologies? To decrease the number of patients through preventive technology? Or to find safer solutions to treat patients? As a biomedical engineer you will develop better healthcare through technology, prevent diseases with smart wearable sensors, realize early diagnosis with high-tech imaging, or design innovative implants with new biomaterials.

Is this the programme for you?

If you like technology and medicine, biology and physics, creative problem-solving and research; if you have a broad interest, from software development to biomaterials, from biomechanics to MRI physics, from big data applications to surgical instrument design; if you prefer general knowledge over detailed knowledge; if you prefer to be trained in teamwork over working solo, then Biomedical Engineering should be your programme of choice.

Career opportunities

Researcher in a hospital, university or company working on image analysis, tissue engineering or high-tech prostheses; Product developer in the medical industry; Clinical Physicist in a hospital, responsible for optimal and safe use of advanced technology; Medical Technology specialist in a hospital.

Floris Idema

The way that the human body functions has always interested me. It is incredible how well everything works, considering how much could go wrong. What I like about Biomedical Engineering is that you learn to think critically and to look for solutions to help people with problems. There is a physiological aspect, which I like a lot, but also an engineering aspect in which you try things out and improve them. This is a very interesting process.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus and UMCG

Biomedical Engineering has a fixed quota (numerus fixus), for which a selection takes place.

More information
www.rug.nl/bachelors/biomedical-engineering

Course examples

YEAR 1
- Design of Biomedical Products 1
- Physics Lab for BME
- Microbiology

YEAR 2
- Imaging Techniques in Radiology
- Biomedical Instrumentation
- Cell Biology and Immunology

YEAR 3
- Tissue Engineering and Regenerative Medicine
- Thermodynamics
- Minor (Biomaterial Science and Engineering/ Medical Imaging/Medical Device Design)

Chemical Engineering

- **The University of Groningen is the only university in the Netherlands where you can study both Chemical Engineering and Chemistry. If you find it hard to choose between the two, you can switch degree after your first year.**
- **Chemistry and Chemical Engineering are the home of the 2016 Nobel Prize winner in Chemistry, Ben Feringa.**
- **Our research is among the finest in the world. The University's Materials Research Institute ranks in the top 10 worldwide.**

Can biobased plastics be produced on a large scale? Can we convert CO_2 into useful chemical products? How can you ensure that factories operate in a clean, safe and efficient way? Chemical engineers work to answer this type of questions, dealing with chemical processes on a large scale. You will develop your critical skills to solve complex problems that are relevant for the chemical industry and for our society.

Is this the programme for you?

You want to contribute to the transition towards a more sustainable chemical industry; you are fascinated by the development of new products; you are interested in following the production process from A to Z; and you like teamwork. If you like the idea of applying chemistry in industrial and commercial settings, then Chemical Engineering is the perfect degree for you.

Career opportunities

Chemical engineer, energy engineer, product development scientist, technical and research positions in laboratories or factories, academic researcher, positions in the chemical and food industries, and in the pharmaceutical and environmental technology industries.

Bart Hulshof

I have just finished a study in process technology for a company called Avebe, which has an innovation centre here at the Zernike Campus. I studied proteins that can be derived from potato juice. Because the starch has already been removed from it, potato juice is actually considered a waste stream. The proteins derived from potato juice can be used in animal food or in protein bars. We used a model to calculate how this process would work.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/chemical-engineering

Course examples

YEAR 1
- Molecules: Structure, Reactivity and Function
- Calculus for Chemistry
- Process and Product Technology

YEAR 2
- Industrial Organic Chemistry and Catalysis
- Single-Phase Reactors
- Technical Thermodynamics

YEAR 3
- Process Control and Dynamics
- Chemical Process Development and Design
- Special Process Equipment

Chemistry

- **The University of Groningen is the only university in the Netherlands where you can study both Chemistry and Chemical Engineering. If you find it hard to choose between the two, you can switch degree after your first year.**
- **Chemistry is home to the 2016 Nobel Prize winner in Chemistry, Ben Feringa, who won the prize for his research on a light-driven rotary molecular motor.**
- **Choice of three programme options: Smart Materials, Chemistry of Life or Sustainable Chemistry and Energy. The first year is designed to give you a broad introduction to the three specializations before you make your decision.**

How do you track down genes that can cause cancer? How can you build a molecular-scale motor? How can you make flexible organic solar cells? Chemistry is about a lot more than a bubbling test tube in a lab. In our Chemistry programme, you learn how to understand and control the chemical processes that go on around you.

Is this the programme for you?

Creating new molecules and materials and conducting research on chemical problems anywhere from advanced functional materials, catalysis to biological systems excites you. If you want to understand how atoms, molecules and ions determine the world we live in then our Chemistry bachelor's programme is the perfect programme for you.

Career opportunities

Researcher within a research institute or a pharmaceutical or biotechnology company, chemical engineer, nanotechnologist, pharmacologist, forensic scientist, chemical analyst, medical sales representative, environmental consultant, toxicologist.

Sanne Smith

The fact that the entire curriculum in Groningen is in English and that you can quite easily combine Chemistry with Chemical Engineering were key to my choice to study here. Next year, I will do my Bachelor's research project in theoretical computational chemistry. I will probably spend most of my time modelling the movement and interactions of complicated molecules. It isn't something you immediately expect of a chemistry programme, but it shows how broad the subject is.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/chemistry

Course examples

YEAR 1
- Molecules: Structure, Reactivity and Function
- Calculus for Chemistry
- Process and Product Technology

YEAR 2
- Physical Properties of Materials 1
- Macromolecular Chemistry + Practical
- Science, Ethics, Technology, and Society

YEAR 3
- Track courses + Electives
- Track Practical
- Bachelor's Research Project

Computing Science

- **The University of Groningen has world-class facilities for high-performance computing and visualization.**
- **You have the chance to study abroad at one of our overseas partner institutions, many of which are ranked among the top 100 universities worldwide. Credits will count towards your final degree.**
- **Our BSc in Computing Science is a relatively small-scale programme, which will allow you to get to know your fellow students and professors quickly.**

How do you demonstrate that a computer program is fail-safe? How would you go about ensuring secure data and communications for the armed forces? How are supercomputers used to convert MRI data into clear images? Computer technology is everywhere. As a computer scientist, you will design and improve software, and develop, build and apply computer systems.

Is this the programme for you?

You have a talent for science and IT. You are fascinated by coding and programming and have an affinity for mathematical thinking. As a student of this discipline you must be able to work accurately, analyse information, as well as understand user needs.

Career opportunities

Roles in programming, consultancy, networking, computer security, database management, game development, systems engineering, electronic engineering, robotics, instrumentation and control engineering.

Anda-Amelia Palamariuc

What I like most about Computing Science is its versatility. It's very interesting that it's associated with other fields, like Mathematics and Physics. I enjoyed all the courses I have had so far, particularly 'Program Correctness'. This course really gave me a new perspective on the programme. I think studying here is quite different from Romania. During high school, we were always reminded of what we had to do, whereas here all the responsibility falls on your own shoulders.

Application deadline
15 January 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

Computing Science has a fixed quota (numerus fixus), for which a selection takes place.

More information
www.rug.nl/bachelors/computing-science

Course examples

YEAR 1
- Imperative Programming
- Computer Architecture
- Linear Algebra and Multivariable Calculus

YEAR 2
- Functional Programming
- Software Engineering
- Parallel Computing

YEAR 3
- Computer Graphics
- Information Security
- Operating Systems

Life Science and Technology

- **The Life Science and Technology programme offers a unique curriculum covering a broad spectrum of topics from the natural sciences, aimed to answer questions from the life sciences.**
- **During the third year, students will focus on a more specialised track, which will prepare you for a Master's degree programme. This allows students to choose from a wide selection of MSc programmes at the Faculty of Science and Engineering in Groningen, or elsewhere.**
- **The programme has a strong focus on research and stimulates students to make full use of state-of-the-art technology.**

Are you intrigued by the way life is built from molecules that are not alive themselves? Would you like to understand the technologies used to study living organisms in great detail, so you can use it at the limits of what is possible, for instance in medical applications? To what extent is it possible to produce better medicine, enzymes or food using biotechnology?

Is this the programme for you?

You are fascinated by the study of life, from the level of organisms down to the molecular level. You like combining the elements of different disciplines, including physics, chemistry and biology, and you are interested in state-of-the-art technology to solve (medical) challenges or create new biotechnological applications. You enjoy logical reasoning and you like experimenting. LST is the right choice for those interested in research.

Career opportunities

Working in research, in hospitals (e.g. implementing state-of-the-art medical technology), in biotechnological or pharmaceutical industries (e.g. the bio-production of high-value chemicals and food products, or the development of new and improved medicines), and in fundamental or applied governmental research institutes (such as universities, RIVM or TNO). Teacher in chemistry, project leader or policy advisor.

Sabrina Krepel

What I like about this programme is that the subjects that are studied are very broad. It's not specifically biology, chemistry or physics, it's all in one. I also find the lab work enjoyable. You can design your own experiments, and if something doesn't work you can try another way. It is also interesting to do research on something that is not known yet. You are the first person to discover something and the scientific community can use this data to further develop its knowledge.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/life-science-and-technology

Course examples

YEAR 1
- Optics (+ practical work)
- Biochemistry
- Biophysics

YEAR 2
- Microbiology (+ practical work)
- Spectroscopy
- Biotechnology

YEAR 3
- Material Sciences
- Cell Migration and Communication
- Physical Organic and Photochemistry

Mathematics

- **The University of Groningen offers degree programmes in both Mathematics and Applied Mathematics. The 1st year is largely the same for both, so you can switch later if you wish.**
- **Choose from one of two specializations: General Mathematics (focusing on the foundations of mathematics and comprising three fields of interest: Physics, Mathematics, Logic & Philosophy) or Probability & Statistics.**
- **Mathematics at the UG is a multifaceted programme; take a course in, or combine your Bachelor's with fields such as Entrepreneurship or Psychology.**

Can you predict an economic crisis? How many prime numbers are located in a certain interval? How do we evaluate the limit of an infinite series of function values? Are you someone who persists until you have found a well thought-out answer? Mathematicians love difficult questions and models underpinned by theoretical foundations.

Is this the programme for you?

Maths is your favourite subject and you enjoy solving abstract problems. You are fascinated by logic and reasoning, and are intuitive and persevering. University-level Mathematics is not the same as secondary school. You will recognize some things from school, but you will also discover new areas, such as algebra (number theory and coding), dynamic systems (how predictable is the weather?), statistical reasoning and complex analysis.

Career opportunities

Researcher, analyst or consultant with multinationals, engineering firms or the financial sector, or you could become a teacher.

Kristel Lok

I have always loved looking for solutions to problems and this is a huge part of what we do. This does not always involve doing calculations. I liked Logic and Advanced Logic a lot for example, which is about argumentation and assessing the validity of reasoning. Now I'm in the first year of my Master's degree in Education, because I enjoy getting other people enthusiastic about the beauty of mathematics.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/mathematics

Course examples

YEAR 1
- Calculus
- Analysis
- Probability Theory

YEAR 2
- Complex Analysis
- Metric and Topological Spaces
- Statistics

YEAR 3
- Bachelor's Workgroup
- Bachelor's Research Project
- Analysis on Manifolds (elective)

Pharmacy

- **The BSc in Pharmacy in Groningen has been ranked as the best in its category in the Netherlands (Keuzegids, 2020).**
- **Pharmacy research and education in Groningen is grounded in the natural sciences and has strong ties to the University Medical Center Groningen (UMCG).**
- **Based on a strong research tradition, our multidisciplinary programme provides a solid scientific foundation for students, by combining chemistry with biology and medicine.**

Why does your headache disappear after you take a painkiller? Do you want to discover and develop new drugs to treat disease? Did you know that pharmacists not only dispense medicines, but also advise doctors on medicines they prescribe? Our Bachelor's programme is the first step towards becoming an all-round pharmaceutical expert and prepares for a career in a pharmacy or drug research lab.

Is this the programme for you?

You excel in natural sciences, and you are interested in tackling new challenges in the medical and life sciences. You are keen to gain new knowledge and to use this to help people. If working at the interface of disciplines such as chemistry, biology and medicine on today's big health challenges intrigues you, then this degree is the perfect choice for you.

Career opportunities

Pharmacist (community, hospital or industry), academic or industrial researcher, policy advisor, academic researcher and lecturer, toxicologist, (clinical) pharmacologist. The University of Groningen offers a Dutch-taught Master's degree programme in Pharmacy and an English-taught Master's degree programme in Pharmaceutical Sciences.

Clara Mayunga

The best part about the degree programme in Pharmacy, in my opinion, is the variation in the curriculum. We learn about the chemical backgrounds of drugs, how medicines act in the body and vice versa, how medicines are prepared and what the position of a pharmacist entails in the different fields that you can enter directly after graduating. I also like the combination of theory and practice. Plus, Groningen is just a really great city!

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/pharmacy

Course examples

YEAR 1
- Molecular Biology of the Cell
- Physiology and Pharmacology
- Molecules and Reactivity

YEAR 2
- Medicinal Chemistry and Biophysics
- Organic and Biosynthesis
- Metabolism and Toxicology

YEAR 3
- Medicine Groups
- Pharmacology Lab Course
- Academic Research and Communication Skills

Physics

- **You can choose between four specializations: Particle Physics, Nanophysics, Biophysics & Medical Physics, or Energy & Environmental Physics.**
- **Unique offer of both Physics and Applied Physics. You may still switch between the two before the start of the second year.**
- **Your lecturers include researchers who have worldwide reputations. Our faculty is the home of the Nobel Prize winner in Chemistry, Ben Feringa, and the Nobel Prize winner in Physics, Frits Zernike.**

What are the smallest building blocks of matter? Why can some materials conduct electric current without resistance? What are gravitational waves? Are you inquisitive and want to know how the world around us works? Other people with this attitude have been responsible for many of the world's ground-breaking theories and applications. Are you one of them?

Is this the programme for you?

You are resourceful and interested in the laws that govern natural phenomena. You are capable of logical and abstract thought and can distinguish between main and secondary issues. You enjoyed physics at school and you achieved good grades in science subjects in general. You will need to be good at mathematics because physicists use maths as a 'language' to describe the universe.

Career opportunities

Researcher within an institute or a university; project leader within a consultancy firm; positions in industrial, software or IT companies or banks; geophysicist, metallurgist or nanotechnologist.

Nithesh Balasubramanian

I decided to study Physics because it is amazing! I'm from Chennai, India, and I decided to study in Groningen because it seemed like the course structure was tailor-made in terms of specializations and academic rigour. I find Physics intuitive and the course isn't that difficult. My best advice is that university is not an extension of school, no matter where you're from. You will need to develop effective systems to perform well, even if you didn't need one before.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 14,000*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/physics

Course examples

YEAR 1
- Mechanics and Relativity
- Medical Physics
- Physics Laboratory

YEAR 2
- Quantum Physics
- Thermal Physics
- Waves and Optics

YEAR 3
- Nanoprobing and Nanofabrication
- Solid State Physics
- Relativistic Quantum Mechanics

Human Geography and Planning

- **The BSc in Human Geography and Planning at the University of Groningen has been ranked as the best in its category in the Netherlands (Keuzegids, 2019).**
- **This programme has an international perspective on planning, and students are encouraged to look at case studies across Europe and beyond.**
- **The Faculty has a unique multidisciplinary perspective and combines economic geography, cultural geography, planning and demography.**

Why is unemployment higher in some regions than others? What are the social and economic consequences of population decline in rural areas? How do you deal with different institutions to plan and build new residential areas? Human geographers investigate society from a spatial perspective, because social phenomena happen in specific places, at particular times, for specific reasons and with specific impacts.

Is this the programme for you?

You are interested in the world around you and are fascinated by maps. You dare to ask critical questions, and you believe you can contribute to developing our world into a more sustainable society. If you have a strong interest in social phenomena and their relationship with the spatial sciences, then Human Geography and Planning is the perfect choice for you.

Career opportunities

Advisory and planning roles in governmental and non-governmental agencies, land use, location of amenities and facilities, environmental protection, economic development, healthy neighbourhoods, transportation, community design, housing, and social planning.

Felix Wagner

The combination of Planning and Geography, theoretical and practical courses, and moreover the chance to study at a good university in a lively and student-friendly city made the decision to come to Groningen one that I definitely do not regret. One aspect of the programme is rural-urban relations, where you analyse and solve issues in the field of rural geography and rural-urban relations. I did a research assignment about the small village Eext, that has opened a supermarket which is run by a cooperation of 350 community members.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/human-geography-and-planning

Course examples

YEAR 1
- Rural-Urban Relations
- Economic Geography
- Urbanism and Planning

YEAR 2
- Migration and Development
- People, Place and Culture
- Physical Geography

YEAR 3
- Fieldwork abroad
- Geography, Planning and the EU
- Planning Dynamics

Spatial Planning and Design

- **Unique spatial planning degree programme in the Netherlands covering a wide range of topics, including spatial planning and design, water management, infrastructure and environmental planning, spatial computer programs, complex decision-making and academic research.**
- **The programme gives students the opportunity to explore their own fields of interest within physical and institutional design by offering a wide range of courses.**
- **Excursions to various spatial projects throughout the three years.**

How will climate change affect our future cities and rural areas? How can we develop sustainable strategies and designs for new and existing urban systems? How should we deal with a complex built environment and related planning processes while including stakeholders? Spatial planners are asked to translate spatial transformation, such as urban growth or decline, into new opportunities to enhance quality of life.

Is this the programme for you?

You have a strong interest in your living environment. You are interested in combining analytical thinking with creative design. You like to interact with people from various fields, such as engineers, urbanists, politicians and other stakeholders in the public sector. If this is the case, then Spatial Planning and Design is the right field for you.

Career opportunities

Consultant, project developer, researcher, different functions in the public sector.

Finn Winkelmann

I have a great interest in creativity and design, and wanted to continue learning about the planning of sustainable living. The Netherlands is one of the leading countries for sustainable development and I have found the programme offering a combination of theory and practice; I could not be happier with my choice of study.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Zernike Campus

More information
www.rug.nl/bachelors/spatial-planning-and-design

Course examples

YEAR 1
- Urbanism and Planning
- Spatial Design Atelier
- Power of Design

YEAR 2
- Mobility and Infrastructure Planning
- Physical Geography
- Urbanism Atelier

YEAR 3
- Environment and Engineering
- Environment and Planning
- Philosophy of Social Science

Religious Studies

- **Top Rated Programme and Best Religious Studies programme in the Netherlands (Keuzegids, 2019).**
- **The programme offers a diversified approach to religion, combining disciplines like anthropology, sociology, political sciences, philosophy, and history.**
- **The course relates the latest research and theories to current developments, providing graduates with the tools needed to understand the complex interconnections linking religion and politics from ancient times through to the present day.**

How did Judaism, Christianity, Islam, Hinduism and Buddhism arise? Which role do these religions play in different cultures? Most cultures are profoundly shaped by religious phenomena. In fact, six billion people in the world define themselves as religious. Globalization and migration have changed our societies drastically; nowadays, different religions and cultures co-exist alongside each other, which in turn can result in frictions and conflicts. A critical understanding of religion is essential to find solutions to these complex and yet essential issues.

Is this the programme for you?

Are you fascinated by religion, other cultures and societies and want to increase your understanding of the world around you? Do you want to know which influence various religions play on society and people? Are you open to different religious beliefs? If you love reading and are interested in history, sociology, psychology, philosophy, politics and cultural anthropology, then our BA Religious Studies programme is the right choice for you.

Career opportunities

Religion and World-Views teacher, researcher, journalist, or policy advisor in the public or non-profit sector, for instance in the field of international politics, cultural heritage or integration.

Lisa Förster

My course has a balance of both well-structured lectures, but also a wide range of reading to do at home; the lectures have been very helpful and lead into the final exam or assignment well. I´m looking forward to the psychological and sociological aspects of religion in the next block. We have so many chances to get in contact with our professors and the classes are quite small, so the lecturers even have time to meet up with us and answer any extra questions.

Application deadline
1 May 2022

Tuition fees
EU/EEA: € 2,209
Non EU/EEA: € 9,500*

** The non-EU/EEA tuition fees listed give an indication based on the tuition fees of recent years. The 2022 EU/EEA tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/religious-studies

Course examples

YEAR 1
- Anthropology of Religion
- Hinduism and Buddhism
- Islam

YEAR 2
- Religion, Diversity and Identity
- Religion and Politics
- Religion, Media and Popular Culture

YEAR 3
- Law and Religion
- Cultural Impact of Religion
- Quranic Arabic

Global Responsibility and Leadership

- **Inspired by the UN Sustainable Development Goals: global challenges – local solutions.**
- **Enables you to directly apply classroom concepts in the Living Lab, a research internship with local partners.**
- **Offers specialization in one of three Majors: Responsible Planet, Responsible Governance or Responsible Humanity.**

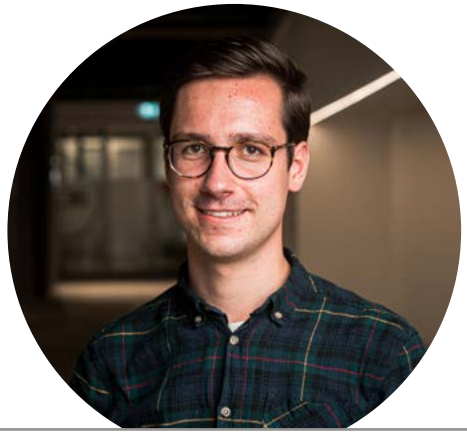
Do you see yourself as a global citizen? Would you like to use your creativity to help solve global challenges? If the answer is yes, University College Fryslân (UCF) is the right choice for you! Our programme is inspired by the 2030 United Nations Agenda for Sustainable Development and aims to provide students with broad knowledge of the wider world (science, culture, and society) as well as in-depth study in a specific area of interest.

Is this the programme for you?

This is the programme for you if you are interested in making a contribution to the world. You'll study different academic disciplines and live in an international community where you get to challenge yourself on a daily basis. The programme distinguishes itself with its small-scale and intensive learning environment, in which we offer interdisciplinary education with a strong global-local connection. We are a residential University College with a vibrant social life. UCF is located in the beautiful city centre of Leeuwarden, Friesland.

Career opportunities

UCF provides a liberal education environment, teaching you knowledge and skills that will prove valuable throughout your professional life. It will set you up to work in a wide range of fields. Depending on the Master's programme you choose, you can join other University College graduates working as policy advisors, big data project leaders, environmental advocates, start-up developers, academic researchers, politicians and consultants.



Koen Pouw

The UCF community is a vibrant and inspiring community, which allows me to gain a lot of new insights from people with many different personal backgrounds. I look forward to obtaining some practical experience by doing an internship next year, in which I can apply my knowledge and make a meaningful contribution in the real world. Studying at University College Fryslân has opened my eyes in many different ways and I am grateful to be able to study global issues everyday.

Application deadline
Early bird: 15 January 2022
Regular: 1 May 2022

Tuition fees
EU/EEA: € 4,249*
Non EU/EEA: € 12,600*

** The tuition fees listed give an indication based on the tuition fees of recent years. The 2022 tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
Leeuwarden, Campus Fryslân

More information
www.rug.nl/bachelors/global-responsibility-leadership

Course examples

YEAR 1
- Politics, Power and International Responsibility
- The Earth System
- Explaining Human Behaviour

YEAR 2
- Diversity, Intersectionality and Global Health
- Ethics and Global Responsibility
- History of Economic Thinking

YEAR 3
- Global Environmental Governance
- Technologies, Citizens and the Energy Transition
- Minor: study abroad/pre-Master's

Liberal Arts and Sciences

- **Freedom: Students can customize their programme in ways that are impossible almost anywhere else in the Netherlands. There is no need to declare your major focus upon entry.**
- **Free Major: Students can choose to either follow a major in the Sciences, Social Sciences or Humanities, or they can design their own unique major by pursuing a Free Major.**
- **Project-based learning in all 3 years: projects provide context for experiential learning. Here existing and new scholarship is applied to practical situations, using collaborative problem-solving skills.**

Are you curious and ambitious? Interested in a variety of different subjects? Eager to work in small-scale, culturally diverse and interactive learning settings? Ready to work collaboratively and creatively on interdisciplinary projects? And motivated to push your intellectual, academic and personal boundaries? If you answered 'Yes' to these questions, then you just may have found your academic home at University College Groningen.

Is this the programme for you?

The Liberal Arts and Sciences programme addresses the complex societal challenges of the 21st century. Students get to develop their full potential in an international and interdisciplinary environment. Our students have all it takes to become thought leaders and innovators: the creative minds who find and execute meaningful solutions to challenges posed by a rapidly-changing world.

Career opportunities

Graduates can pursue multiple Master's, move between careers and even create their own career. Intercultural competences, project management and analytical skills learned at UCG are in high demand by employers and Master's programmes alike.

Johanna Paschen

Studying at UCG and living together in the first year feels like being one big family. The close contact and intercultural chats between students, lecturers and UCG staff (in and out of the classroom) adds great value to UCG. You will enjoy the project-based learning at UCG a lot. It is all about creating, realizing, and presenting your own ideas for projects with the support of supervisors. Here you will gain practical skills in addition to theoretical learning.

Application deadline
Early bird: 15 January 2022
Regular: 1 May 2022

Tuition fees
EU/EEA: € 4,249*
Non EU/EEA: € 12,600*

** The tuition fees listed give an indication based on the tuition fees of recent years. The 2022 tuition fees will be confirmed by faculties from November 2021. Please check www.rug.nl/tuitionfees for up-to-date tuition fee information.*

Duration
3 years

Location
City Centre Campus

More information
www.rug.nl/bachelors/liberal-arts-and-sciences

Course examples

YEAR 1
- Core Electives: e.g. Love, War, Disease etc.
- Introduction to Academic Research
- Exploring Challenges of Modern Society

YEAR 2
- Major Electives
- Year 2 Project
- Machine Learning

YEAR 3
- Internship and/or Study Abroad and/or University Minor
- Major Electives
- Year 3 Project and Thesis

University College Groningen uses a holistic admissions process which balances academics with motivation and your personal experiences. Our approach means that we look at the bigger picture regarding your application: who you are, what you've done and what you want to do in the future. Therefore, even if you do not meet all of the admission requirements, we still strongly encourage you to apply. ***www.rug.nl/ucg***

Bachelor's entry requirements

In order to be admitted to study at the University of Groningen, students will need to meet the general entry requirements and any specific requirements of their chosen programme. We welcome applications from international students and accept a wide number of qualifications including A-levels, the International and European Baccalaureate and many more country-specific qualifications. The entry requirements outlined below are correct at the time of publication (September 2021), but may be subject to change. Therefore, please check the university's website for up-to-date admission information. All applications are assessed on an individual basis and additional requirements may apply. No rights can be derived from the information listed in the following pages.

UK A-levels

Minimum of 3 A-levels (academic subjects) with a grade of A to C.

Subject specific requirements

FACULTY OF ECONOMICS AND BUSINESS (all programmes)

Mathematics A-level

FACULTY OF SCIENCE AND ENGINEERING

- Applied Mathematics: Mathematics A-level
- Applied Physics: Mathematics A-level, Physics A-level
- Artificial Intelligence: Mathematics A-level
- Astronomy: Mathematics A-level, Physics A-level
- Biology*: Biology A-level, Chemistry A-level, Physics A-level, Mathematics AS-level
- Biomedical Engineering: Mathematics A-level, Physics A-level, Chemistry A-level
- Chemical Engineering: Mathematics A-level, Physics A-level, Chemistry A-level
- Chemistry: Mathematics A-level, Physics A-level, Chemistry A-level
- Computing Science: Mathematics A-level
- Industrial Engineering and Management: Mathematics A-level, Physics A-level
- Life Science and Technology: Mathematics A-level, Physics A-level, Chemistry A-level
- Mathematics: Mathematics A-level
- Pharmacy: Mathematics A-level, Physics A-level, Chemistry A-level
- Physics: Mathematics A-level, Physics A-level

FACULTY OF MEDICAL SCIENCES

- Medicine*: Biology A-level, Chemistry A-level, Physics A-level, Mathematics AS-level or Biology A-level, Chemistry A-level, Mathematics A-level, Physics AS-level

FACULTY OF SPATIAL SCIENCES

- Human Geography and Planning: Mathematics AS or A-level
- Spatial Planning and Design: Mathematics A-level

UNIVERSITY COLLEGE GRONINGEN

- Liberal Arts and Sciences: Mathematics AS or A-level

UNIVERSITY COLLEGE FRYSLÂN

- Global Responsibility and Leadership: Mathematics AS or A-level

* Although we are aware of the limitations of the A-level educational system when it comes to the amount of subjects usually taken, the subject-specific requirements have been established on the basis of comparison to the requirements for Dutch VWO (pre-university education) applicants. Therefore, the subject-specific requirements for all four mentioned subjects have to be met. If applicable, a deficiency can be lifted by obtaining one of the accepted certificates for a relevant subject.

International Baccalaureate

Full International Baccalaureate Diploma

Subject specific requirements

FACULTY OF ECONOMICS AND BUSINESS

- Econometrics and Operations Research: Mathematics analysis and approaches HL*
- Economics and Business Economics: Mathematics analysis and approaches SL or Mathematics analysis and approaches HL or Mathematics application and interpretation HL
- International Business: Mathematics analysis and approaches SL or Mathematics analysis and approaches HL or Mathematics application and interpretation HL

FACULTY OF SCIENCE AND ENGINEERING

- Applied Mathematics: Mathematics analysis and approaches HL*
- Applied Physics: Mathematics analysis and approaches HL*, Physics HL
- Artificial Intelligence: Mathematics analysis and approaches SL or Mathematics analysis and approaches HL or Mathematics application and interpretation HL
- Astronomy: Mathematics analysis and approaches HL*, Physics HL
- Biology***: Mathematics analysis and approaches SL or HL or Mathematics application and interpretation HL, Biology HL, Physics**, Chemistry**
- Biomedical Engineering: Mathematics analysis and approaches HL*, Physics**, Chemistry**
- Chemical Engineering: Mathematics analysis and approaches HL*, Physics**, Chemistry**
- Chemistry: Mathematics analysis and approaches HL*, Physics**, Chemistry**
- Computing Science: Mathematics analysis and approaches HL*
- Industrial Engineering and Management: Mathematics analysis and approaches HL*, Physics HL
- Life Science and Technology: Mathematics analysis and approaches HL*, Physics**, Chemistry**
- Mathematics: Mathematics analysis and approaches HL*

- Pharmacy: Mathematics analysis and approaches SL or HL or Mathematics applications and interpretation HL, Physics**, Chemistry**
- Physics: Mathematics analysis and approaches HL*, Physics HL
- Life Science & Technology: Mathematics: Analysis and approaches HL*, Physics**, Chemistry**

FACULTY OF MEDICAL SCIENCES

- Medicine***: Biology HL, Chemistry HL, Physics SL or HL, Mathematics analysis and approaches SL or HL or Mathematics applications and interpretation HL

FACULTY OF SPATIAL SCIENCES

- Human Geography and Planning: Mathematics analysis and approaches SL or HL or Mathematics applications and interpretation SL or HL
- Spatial Planning and Design: Mathematics analysis and approaches SL or HL or Mathematics applications and interpretation HL

UNIVERSITY COLLEGE GRONINGEN

- Liberal Arts and Sciences: Mathematics analysis and approaches SL or HL or Mathematics applications and interpretation SL or HL

UNIVERSITY COLLEGE FRYSLÂN

- Global Responsibility and Leadership: Mathematics analysis and approaches SL or HL or Mathematics applications and interpretation SL or HL with a minimum grade 4

* IB Mathematics curriculum before 2019: Mathematics HL.

** At least one of these two courses at HL, the other at SL.

*** Although we are aware of the IB regulations when it comes to the possibilities in the choice of subjects, the subject-specific entry requirements have been established on the basis of comparison to the requirements for Dutch VWO (pre-university education) applicants. Therefore, the subject-specific requirements for all four subjects have to be met. A deficiency can be lifted by obtaining one of our accepted certificates for a relevant subject.

India

Minimum requirement for all Bachelor's programmes: All India Senior School Certificate of the Central Board of Secondary Education (CBSE) with at least 5 courses. Grade A (A1, A2) or B (B1) has to be obtained in all 5 courses. The non-externally examined courses (e.g. Work Experience, Physical & Health Education and General Studies) do not count towards meeting the required minimum number of courses nor to the grade requirement for five courses as mentioned above.

Subject specific requirements

FACULTY OF ECONOMICS AND BUSINESS (all programmes)

- Mathematics

FACULTY OF SCIENCE AND ENGINEERING

- Applied Mathematics: Mathematics
- Applied Physics: Mathematics, Physics
- Artificial intelligence: Mathematics
- Astronomy: Mathematics, Physics
- Biology: Biology, Mathematics, Physics, Chemistry
- Biomedical Engineering: Mathematics, Physics, Chemistry
- Chemical Engineering: Mathematics, Physics, Chemistry
- Chemistry: Mathematics, Physics, Chemistry
- Computing Science: Mathematics
- Industrial Engineering and Management: Mathematics, Physics
- Life Science and Technology: Mathematics, Physics, Chemistry
- Mathematics: Mathematics
- Pharmacy: Mathematics, Physics, Chemistry
- Physics: Mathematics, Physics

FACULTY OF MEDICAL SCIENCES

- Medicine: Biology, Mathematics, Physics, Chemistry

FACULTY OF SPATIAL SCIENCES (all programmes)

- Mathematics

UNIVERSITY COLLEGE GRONINGEN

- Liberal Arts and Sciences: Mathematics (as a final year/exam course)

UNIVERSITY COLLEGE FRYSLÂN

- Global Responsibility and Leadership: Mathematics equivalent to (at least) Dutch Mathematics C, Mathematics A or Mathematics B with a minimum grade of 5.5/10 or equivalent

USA

USA High School Diploma with at least 3 content-based AP courses externally examined by the College Board (grades 3-5) and a high school GPA 3.0/4.0. This can include only 1 of the following AP courses at the most: AP Capstone: AP Research/AP Seminar; AP Music History/ Music Theory; AP Studio Art: 2-D Design/2-D Art and Design; AP Studio Art: 3-D Design/3-D Art and Design; AP Studio Art: Drawing/Drawing.

Subject specific requirements

FACULTY OF ECONOMICS AND BUSINESS (all programmes)

- AP Calculus AB or BC

FACULTY OF SCIENCE AND ENGINEERING

- Applied Mathematics: AP Calculus AB or BC
- Applied Physics: AP Calculus AB or BC, AP Physics II
- Artificial Intelligence: AP Calculus AB or BC
- Astronomy: AP Calculus AB or BC, AP Physics II
- Biology*: AP Biology, AP Calculus AB or BC, AP Physics II, AP Chemistry
- Biomedical Engineering: AP Calculus AB or BC, AP Physics II, AP Chemistry
- Chemical Engineering: AP Calculus AB or BC, AP Physics II, AP Chemistry
- Chemistry: AP Calculus AB or BC, AP Physics II, AP Chemistry
- Computing Science: AP Calculus AB or BC
- Industrial Engineering and Management: AP Calculus AB or BC, AP Physics II
- Life Science and Technology: AP Calculus AB or BC, AP Physics, AP Chemistry
- Mathematics: AP Calculus AB or BC
- Pharmacy: AP Calculus AB or BC, AP Physics II, AP Chemistry
- Physics: AP Calculus AB or BC, AP Physics II

FACULTY OF MEDICAL SCIENCES

- Medicine*: AP Calculus AB or BC, AP Chemistry, AP Biology, AP Physics II

FACULTY OF SPATIAL SCIENCES

- Human Geography and Planning: Mathematics
- Spatial Planning and Design: AP Calculus AB or BC

UNIVERSITY COLLEGE GRONINGEN

- Liberal Arts and Sciences: AP Statistics or AP Calculus AB or BC

UNIVERSITY COLLEGE FRYSLÂN

- Global Responsibility and Leadership: AP Statistics, AP Calculus AB or BC

* Although at least three content-based AP College Board exams (score 3-5) are required as part of the general end level requirements, the subject-specific entry requirements have been established on the basis of comparison to the requirements for Dutch VWO (pre-university education) applicants. Therefore, the subject-specific requirements for all four subjects have to be met. A deficiency can be lifted by obtaining one of our accepted certificates for a relevant subject.

Important note

- If a student takes/has taken AP courses: These need to be explicitly mentioned in the application and whether the AP courses will be concluded with College Board exams. If the application documents do not indicate explicitly that the AP courses will be/have been concluded with College Board examinations, the student's file will be evaluated under the assumption that this will not be/has not been the case.
- If a student takes/has taken honours/advanced courses: It needs to be explicitly mentioned in the application whether the courses are taken/have been taken at an honours/advanced level. If the application documents do not indicate explicitly that this is the case, the student's file will be evaluated under the assumption that this will not be/has not been the case.
- ACT and SAT scores are not considered in the University Groningen application procedure.

English language requirements

Students need to demonstrate a certain level of English in order to meet the demands of each programme. The level required will depend upon the programme they have chosen to study. An indication of English language entry requirements is shown below. Students will be required to show evidence of at least one of these when offered a place to study.

Students are exempted from providing an English language proficiency test if they have:

- Completed your entire secondary education in one of the following countries: USA, UK, Ireland, New Zealand, Australia, Canada (English secondary education)
- Completed an entire Bachelor's programme in one of the following countries: USA, UK, Ireland, New Zealand, Australia, Canada (English higher education)
- At least 3 GCE A2-level certificates from an accredited British examination board;
- The International Baccalaureate diploma, with English as the medium of instruction
- The European Baccalaureate diploma from a European School or one of the Accredited European Schools and have (completed) English as final exam subject have completed the British version of the French Option Internationale du Baccalauréat (OIB)
- The South African National Senior Certificate in combination with an IEB Advanced Programme Certificate in English (with minimum result 55% in case this is the only IEB AP certificate; otherwise with a passing grade)

Additional exemptions may apply for the per programme. However, this is at the discretion of the Admissions Board and will be assessed when an application has been received by the Admissions Office.

	IELTS (Academic) Minimum Scores	TOEFL iBT	Cambridge English Qualifications
Faculty of Arts	6.5 (with a minimum of 6 in each section)	90 (with a minimum of 21 in each section)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Behavioural and Social Sciences	6.5 (with a minimum of 6 on speaking, and writing)	90 (with a minimum 19 on speaking and 21 on writing)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Economics and Business	6.0 (minimum 6 on speaking and 5.5 on writing)	80 (with a minimum 20 on speaking and writing)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Law	IELTS 7.0 (with a minimum of 6 in each section)	100 (minimum 21 in each section)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Medical Sciences	6.5 (with a minimum of 6 in each section)	92 (with a minimum of 21 in each section)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Philosophy	6.5	92 (with a minimum of 21 in each section)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Science and Engineering	6.5 (with a minimum of 6.5 in each section)	90 (with a minimum of 24 on writing and 21 on all other sections)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Spatial Sciences	6.0 (with a minimum of 6 in each section)	80 (with 18 on reading and listening, 20 on speaking and 21 on writing)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
Faculty of Theology and Religious Studies	6.0 (with a minimum of 6 in each section)	80 (with a minimum of 20 on speaking and 21 on writing)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
University College Fryslan	6.5 (with a minimum of 6 in each section)	90 (with a minimum of 18 in each section)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)
University College Groningen	6.5 (with a minimum of 6 in each section)	92 (with a minimum of 21 in each section)	Cambridge C1 Advanced (CAE) Cambridge C2 Proficiency (CPE)

Contact

Email
prospectives@rug.nl

Course catalogue
www.rug.nl/ocasys

Overseas representatives
The University of Groningen has a number of overseas university and commercial representatives with whom we work with globally. They are able to provide information on studying at the university, as well as provide guidance on the application process.
www.rug.nl/representatives

Write to us
University of Groningen
PO Box 72
9700 AB Groningen
The Netherlands

Visit us
University of Groningen
Academy Building
Broerstraat 5
9712 CP Groningen
The Netherlands

Stay in touch online

www.rug.nl/education
@universityofgroningen
universityGroningen
@univgroningen
universityofgroningen
+31649230111
UniGroningen
@uniofgroningen

This guide describes the academic year 2022-2023 – based on what is known at publication in September 2021 – and is intended to help you choose your programme at the University of Groningen. The university makes every effort to ensure the accuracy of this guide and will use all reasonable endeavours to provide the programmes and services described within it. It cannot guarantee their provisions in the event of circumstances beyond our control (such as change in government policy or a lack of demand). All information published in this guide is subject to change and no legal rights may be derived. While the University of Groningen makes every endeavour to ensure the accuracy of the information presented in this guide, it cannot be held liable for any errors or inaccuracies you may find.

Colophon

September 2021

Text
University of Groningen

Editor
Communications Department

Design
Willem Dijkstra
www.inontwerp.nl

Map
Page 10: Dorel Extra Bold
Page 11: Daniël Houben

Photography
Jasper Bolderdijk
Elmer Spaargaren
Michel de Groot
Peter van der Sijde
Marcel Spanjer
Egbert de Boer
Peter Tahl
Taatgen-Fotografie
Henk Veenstra