INTERNATIONAL FOUNDATION YEAR

PREPARE FOR YOUR FUTURE
### OUR INTERNATIONAL COLLEGE

Jacobs University International College

Your pathway to a degree and more

Benefits of a foundation year

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The world is our benchmark

Across disciplines and borders

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### THE INTERNATIONAL FOUNDATION YEAR

Live up to your potential! – Introduction by Prof. Dr. Arvid Kappas

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Jacobs University International College is an on-campus college for international students located on Jacobs University campus in Bremen, Germany.

Through our International Foundation Year, you will start your journey with a year of study designed to prepare you for a degree program at Jacobs University.

From day one, you will be able to use all campus facilities and student services offered by Jacobs University to make sure you have the best possible student experience.

When you choose to study with us, you will have every opportunity to realise your future goals, and whatever your ability is, we’ll inspire and excite you to achieve more.

When you choose to study with us, you benefit from:

- Studying at one of Germany’s Top 5 Universities*
- Small class sizes
- Personal development program
- Personal tutor system

*THE Young Universities 2020

www.jacobs-university.de/juic
YOUR PATHWAY TO A DEGREE AND MORE

Our International Foundation Year (IFY) offers you two pathways to a degree program at Jacobs University across five different subject areas.

Depending on your individual goals and at what stage you are in deciding your future degree, you can choose between the Orientation or Focused pathway.

1. **THE FOCUSED PATHWAY**
   - Allows you to study subject-specific modules in preparation for your chosen degree program.

2. **THE ORIENTATION PATHWAY**
   - Allows you to explore a variety of modules and then decide on your degree program.

SUBJECTS

- Business
- Computer Science
- Industrial Engineering
- Natural Sciences
- Social Sciences

ALONGSIDE YOUR SUBJECT-SPECIFIC MODULES YOU WILL ALSO STUDY A COMBINATION OF CORE MODULES THAT ARE DESIGNED TO ENHANCE YOUR ACADEMIC AND PERSONAL SKILLS:

- English for Academic Purposes (Generic)
- English for Academic Purposes (Subject specific)
- Basic or Advanced Mathematics
- Digital Literacy
- SATs Preparation
- Personal Development (delivered throughout the Program)

YOUR JOURNEY STARTS HERE

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BENEFITS OF THE FOUNDATION YEAR

As an international student, you might face unique challenges when choosing to study abroad such as your local qualifications do not meet the standard for direct entry.

You might not feel ready for university but do not want to delay your higher education journey either. A foundation year offers you the chance to adjust to a new environment, a new culture and a new way of learning.

A foundation year also helps prepare you for the increased level of study skills you will need for your degree program while benefiting from tailored support for every aspect of your new life as an independent student.

YOU WILL ALSO BENEFIT FROM:

- **LEARNING ACADEMIC ENGLISH SKILLS** that are key to writing and referencing at university-level
- **BUILDING YOUR CONFIDENCE** in an environment of like-minded individuals and with experienced support from tutors
- **DISCOVERING YOUR NEW HOME**, city and student community through a range of cultural and on-campus activities
- **MEETING NEW PEOPLE** from a variety of backgrounds, opening your mind to a world of possibilities and friendships
WHY JACOBS UNIVERSITY?
WHAT MAKES JACOBS UNIVERSITY STAND OUT?

As a private, non-profit, English-speaking university offering the highest standards in research and teaching, Jacobs University attracts highly talented and open-minded students from all over the world. On Germany’s most international campus students become citizens of the world, able to take responsibility for a sustainable and peaceful future of humanity. To this end, Jacobs University has derived four core objectives for its educational profile.

1 ACADEMIC QUALITY
Students encounter the highest in academic standards, gaining an interdisciplinary education in which faculty mentor students personally and invite them into their research from early on.

2 INTERNATIONAL OUTLOOK
With 110 nations represented on campus, students live and learn among a melting pot of ideas and viewpoints, providing an experience that both uncovers new passions and broadens perspective. Jacobs University values diversity and global thinking and fosters a community that champions it.

3 PERSONAL DEVELOPMENT
Our students graduate with the self-competence and social skills. The diversity encountered during their education prepares them to participate within diverse cultures and global industries.

4 EMPLOYABILITY
Our graduates go on to successful careers in business and science, possessing the interdisciplinary knowledge and experience today’s employers seek.

FACTS AND FIGURES

- 1557 students from 113 countries
- 6% from North America
- 7% from South America
- 13% from Middle East
- 36% from Africa
- 36% from Asia
- 36% from Europe
- 16% from Germany

- #1 University with most international outlook in Germany
- #2 University younger than 50 years in Germany
- #1 in teaching among young universities in Germany
- #21 in young university worldwide
- 95% graduation rate
- 82% of our graduates received their first job offer in Europe or North America
- Among top 300 Times Higher Education World University Ranking 2021
- #1 Private University in Germany

(1) THE Young University Ranking 2021
(2) THE World University Ranking 2021
(3) The basis of the completion rates includes all students who were originally enrolled for the class graduating in the respective academic year. Students of this class who have been on a leave of absence and are therefore expected to graduate later or who left the university between their enrolment and their expected graduation date on their own wish (e.g. change of university) are not included into the basis of the rates.
(4) Source: Jacobs University Alumni Survey 2018
“IN AN INCREASINGLY GLOBALIZED WORLD, STUDYING AT JACOBS UNIVERSITY GRANTS STUDENTS THE POSSIBILITY TO PARTICIPATE IN PROGRAM DISCUSSIONS WITH VARIOUS REGIONAL AND CULTURAL POINTS OF VIEW. THIS OPENS THE DOORS TO MORE MEANINGFUL DIALOGUE AND FOSTERS RESPECT OF DIVERSE PERSPECTIVES.”

Timo Behrend, Chile

“CONTRIBUTING AND GIVING BACK TO THE PLACE THAT GAVE ME SO MUCH IS WHAT’S MOST REWARDING ABOUT BEING INVOLVED WITH THE ALUMNI BOARD. KNOWING MY INVESTMENT WILL BENEFIT FUTURE JACOBS GENERATIONS IS A VERY ENRICHING EXPERIENCE IN ITSELF.”

Stefan Rustler, President of the Alumni Association

1999
Founded as International University Bremen with the support of the Free Hanseatic City of Bremen, the University of Bremen and Rice University, Houston, Texas.

2001
Krupp College opens. 133 students from 43 nations begin their studies.

2003
College 3 opens.

2004
First class graduates. The Alumni Association is founded.

2006
€200 million, the largest donation in Europe ever made to a university, is invested by the Jacobs Foundation. International University Bremen becomes Jacobs University.
College Nordmetall opens. For the first time, students from more than 100 nations (102 in total) are represented on campus.

The Sports and Convention Centre and the Rowing Tank open.

Jacobs University has been top ranked in some of the most important national and global university rankings for several years. In 2019, the University was represented in the renowned THE World University Ranking for the first time.

First Jacobs Career Fair connects students with local and international organisations.

Jacobs University partnerships with Oxford International Education Group to launch Jacobs University International College in 2021.

“I WAS LOOKING FOR A UNIVERSITY OF EXCELLENCE IN WHICH I COULD GROW ACADEMICALLY AND PERSONALLY. THAT’S WHAT I FOUND HERE IN MY PROGRAM OF STUDY AND IN THE STUDENT COMMUNITY.”

Lea Neubert, Germany

“I THE STUDENTS AT JACOBS UNIVERSITY ARE VERY HANDS-ON; THEY SHOW AN ENTREPRENEURIAL MINDSET AND ARE EAGER TO LEARN. WITH THEIR INTERNATIONAL BACKGROUNDS, THEY ARE A PERFECT MATCH WITH OUR COMPANY.”

Claudia Schabler, Eckes-Granini Deutschland GmbH
THE WORLD IS OUR BENCHMARK

With over 1,500 students representing 110 countries, we are international in our corridors and at our heart. Our open-minded community stands for cooperation beyond the borders of cultures, nationalities and disciplines, and orients all its studies and relationships to that end. Together we are fostering meaningful collaboration and the future success of all.

ACROSS DISCIPLINES AND BORDERS

At Jacobs University, getting an incredible education is not limited by one’s nationality, religion or family origin, but empowered by it. Here, everyone has equal opportunities to address the pressing problems of the day by integrating world cultures with research disciplines. Diverse, talented minds and cutting-edge research and teaching meet to address key issues and pioneer the solutions that change our world for the better.

- Learning within an international community
- Obtaining a qualification to take on responsible tasks in a digitised and globalised society
- Learning, researching and teaching across academic disciplines and countries
- Strengthening people and markets with advanced training programs
- Acting as an incubator for exciting start-up ideas

This is what Jacobs University Bremen stands for. With its academic aspirations, its research orientation, its diversity and interdisciplinary curriculum, Jacobs University is a place of inspiration.

STUDENTS ARE ACTIVELY INVOLVED IN RESEARCH FROM THEIR FIRST YEAR OF STUDY!
SUPPORT FOR YOUR UNDERGRADUATE STUDY

APPLICATION DEADLINE: 15 MARCH 2023

APPLICATIONS ARE NOW OPEN. APPLY TODAY!

We believe that everyone has the right to a good education – and this is the principle we live by here at Jacobs University.

This is why we offer students a personalized financial aid package to finance their studies, consisting of scholarships and deferral options, for example. You only start repaying the deferred tuition fees once you have successfully entered the job market. That way you can focus completely on your studies. We are convinced that a Jacobs’ education will form the perfect foundation for your future career – that is why we are happy to invest in you.

Our financing options are automatically available to you upon continuation from our International College to your chosen study program.

NOT APPLICABLE TO IFY STUDENTS. IFY STUDENTS ARE ONLY ELIGIBLE UNDERGRADUATE PROGRAM AT JACOBS.

FINANCIAL SUPPORT IN THREE STEPS

1. START YOUR JOURNEY AT JUIC
   Once you’ve successfully completed your foundation program you will progress directly to year one of your chosen degree course.

2. PROGRESS AND RECEIVE YOUR MERIT BASED SCHOLARSHIP FOR YOUR UNDERGRADUATE STUDY
   A scholarship towards your tuition is available to your undergraduate study. Regardless of your financial situation:
   - We automatically determine if you’re eligible for a scholarship.
   - The decision is based on your academic skills and social commitment.
   - The scholarship DOES NOT NEED TO BE REPAYED.
   - Scholarships are WORTH UP TO €15,000 (UP TO 75% OF TUITION)

   In addition to your Merit Based Scholarship, all JUIC students upon progression are offered the JUStudyAtEase tuition loan program.

3. THE JUSTUDYATEASE - TUITION LOAN PROGRAM
   In cooperation with Jacobs University’s partner Brain Capital, the JUStudyAtEase tuition loan program provides you with a flexible financing option for your undergraduate study.
   How does it work?
   - Once you progress, you will receive your JUStudyAtEase financing package which offers to cover UP TO 100% OF YOUR TUITION.
   - The loan is ONLY REPAYABLE ONCE YOU’VE GRADUATED AND ARE EARNING A SALARY that exceeds a pre-determined amount set-out in your financing package.
   - Continue your degree program at Jacobs University and study at ease!
   - Graduate and start your career.

   Brain Capital guarantees funding up to the amount listed under JUStudyAtEase in your financing package. You can accept the full offer, a smaller amount, or no JUStudyAtEase funding at all. It’s your choice.

HOW TO FINANCE YOUR UNDERGRADUATE STUDY WITH JUSTUDYATEASE

ADDITIONAL ASSISTANCE FOR UNDERGRADUATE STUDENTS

Our Student Financial Services team is happy to assist you!

- Apply for our personalized, need-based financial aid program.
- We consider your and your family’s financial situation.
- The amount of grant is determined based on your financial need.
LIVING IN BREMEN, GERMANY
WELCOME TO BREMEN

Jacobs University is based in the north of Bremen in Germany – a city with a maritime atmosphere and 1,200 years of history. Home to about half a million people, it is easy to get around the city and enjoy its high quality of living. The historical market square is famous for Bremen’s mascots, the Town Musicians and is a UNESCO World Heritage site.

Bremen is fast becoming a choice for students because of its rich history, leading universities and high standards of living.

ECONOMIC POWERHOUSE
Bremen is Germany’s eighth-largest industrial hub with over 350 high tech international brands based here within the aviation, aerospace, maritime and automotive industries. You can find companies such as Mercedes Benz, Airbus, the BLG Logistics Group here. It’s been awarded the title “city of science” in recognition of its optimal combination of science and economics.

BREMEN IS BOTH BIG AND SMALL
Bremen is the 2nd largest city in Northern German after Hamburg with over 560,000 people living here. It is a relatively small city, with a lot to offer, it’s easy to get around and is big enough to explore.

TRADITION MEETS INNOVATION
A bustling, vibrant city where future innovation meets historical buildings, palaces and parks. There’s a vast amount of impressive buildings dotted around Marktplatz and outstanding innovative companies that you can see when you’re here. Be sure to visit Bremen’s oldest district called the Schnoor quarter, here you’ll find a maze of lanes lined with little 15th and 16th century houses.

1,200 YEARS OF HISTORY
100% CULTURAL DIVERSITY
560,000 RESIDENTS
37,000 STUDENTS
STUDYING IN GERMANY

The German education system is well-structured and rigorous, producing some of the most skilled students in the world. It’s no wonder why Germany is regularly ranked as one of the most popular study destinations.

REASONS INTERNATIONAL STUDENTS CHOOSE GERMANY

WORLD LEADING IN QUALITY OF TEACHING
Top pick for students who want to study abroad in Europe. Germany, a diverse country with a great culture is ranked #1 in the world for quality of teaching and #3 in the world for country of choice for international university students. (Educations.com/ StudyEU 2020)

GAIN VALUABLE WORK EXPERIENCE
As an international student in Germany you are allowed to work up to 120 full working days in a year with the potential of earning between 10 euros - 15 euros an hour. You benefit from extra income, develop important life skills and it will look great on your CV to future employers showcasing your motivation to work and study at the same time.

CAREER OPPORTUNITIES
Students benefit from excellent career opportunities with 18 months job seeking visa after graduation. If you wish to look for work relating to your university degree after graduation in Germany, you can! You must apply for a resident permit when seeking employment.

EASILY EXPLORE GERMANY AND THE REST OF EUROPE
Transportation in Germany is very cheap, in fact students get discounted tickets meaning you can travel and visit neighbouring and local cities like Munich, Berlin, Hamburg and more for a fraction of the price! France, Belgium, Switzerland and Denmark are all within easy reach by plane or train.
STUDENT LIFE AT JACOBS
Jacobs University is more than a place to study; it is a place where everyone is committed to create a homelike atmosphere and a feeling of belonging. A place where close friendships develop regardless of country or religion, not only between students but within the whole Jacobs community.

With students from more than 110 countries living on campus, we equally encourage diversity in the University in ethnic, cultural, social, religious, political, and national background and in individual life style.

We are committed to making our campus and the colleges a comfortable and happy “Home away from home”. Dedicated resident mentors, who live on campus with their own families, support our students in everyday life and take care of their health and interpersonal, academic, and social well-being. As a Jacobs University student, you will have your own academic advisor who ensures that you receive the best support possible when it comes to academic challenges and personal development.

Our welcoming university culture combines state-of-the-art facilities, a fitness centre, and a spacious campus green. Our campus offers everything to study, work, live and relax and make your time with us a great and inspirational experience.

STUDENT EVENTS
An international campus offers a richness of activities that promise to excite and inspire. Countless student-driven events throughout the year invite you to explore cultural diversity, from the brilliant Deepavali Festival of Lights to the celebratory Lunar New Year, not to mention the Intercontinental Football Tournament or various Country Information Days. Annual events such as the Jacobs Startup Competition, jacobsHack! or the Women in Leadership Conference (WIL) allow students to actively showcase their ideas to university students and companies from around the globe.

STUDENT CLUBS
Numerous student clubs ranging from arts to sports and community engagement open the door to students’ creativity, develop social and intercultural competencies and strengthen mutual understanding between our campus and the local community. Clubs bring colour and texture to life on campus, with many initiating annual student-run events, such as Art Fest and Environmental Awareness Week.
ACCOMMODATION

On our residential campus, four modern colleges provide attractive housing options. Our dorms are equipped with all essential furniture. Each college has its own servery with international cuisines, as well as study areas, group meeting rooms and recreational lounges. Students may easily walk from their college to lecture halls, research laboratories, sports facilities, the theatre, cinema, student bar and café. Bonds are quickly formed within home colleges and among college mates, forging long-lasting relationships and sharing a spirit that is clearly felt during sports games, art competitions, and other rally events across campus.

STUDENT SERVICES

Jacobs University is dedicated to creating a safe and attractive learning environment where everyone receives the support services they need to perform at their best. Campus Services enhance a student’s work, study and leisure. From counselling and career services, to dining and financial options, students will have the ample resources to grow and thrive.

All IFY students in their first year of study will be required to live on campus.

ROOMS ON CAMPUS WITH SHARED BATHROOM FACILITIES

<table>
<thead>
<tr>
<th>College</th>
<th>Accommodating</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krupp College</td>
<td>260 students</td>
<td>Pool, table tennis tables and multimedia room</td>
</tr>
<tr>
<td>Mercator College</td>
<td>191 students</td>
<td>Biggest kitchens</td>
</tr>
<tr>
<td>College 3</td>
<td>240 students</td>
<td></td>
</tr>
<tr>
<td>College Nordmetall</td>
<td>262 students</td>
<td></td>
</tr>
</tbody>
</table>
THE INTERNATIONAL FOUNDATION YEAR
At Jacobs University International College, we know the importance of personal growth; this is why we have developed the International Foundation Year (IFY) which in addition to strong academic focus offers a personal development program that will help you flourish at Jacobs University.

Through a combination of core modules and subject-specific study, you will develop the skills you need to continue to succeed in university life. The IFY offers you five subjects to choose from, and these subjects provide you with a route into a degree at Jacobs University.

Alongside your subject-specific modules you will also study a combination of core modules that are designed to enhance your academic and personal skills:

**CORE MODULES:**
- English for Academic Purposes (Generic)
- English for Academic Purposes (Subject specific)
- Basic or Advanced Mathematics
- Digital Literacy
- SATs Preparation
- Personal Development (delivered throughout the Program)

**PRE-SESSIONAL ENGLISH**
These programs provide you with an initial period of intensive English language training and assessments. This academic English support is delivered over 6 or 12 weeks. The number of weeks you complete will depend on your current English level.
THE RIGHT PATHWAY FOR YOU

Depending on your academic and personal development goals, you can choose from one of the following pathways:

FOCUSED PATHWAY
You know what degree program you would like to study at Jacobs University and our focused pathway will prepare you for your studies. With subject-specific modules that will build your foundation of knowledge and give you a head start on the academic skills you will need to know.

1. Choose your subject
2. Study subject modules over two semesters
3. Successfully complete your program
4. Progress directly onto year one of your chosen degree

ORIENTATION PATHWAY
You are unsure of what to study and would like to explore a variety of subjects so you can make the right choice for yourself. You will be able to select a different subject each semester.

1. In your first semester you can choose modules from different subject areas
2. In your second semester you can choose modules from up to three subject areas
3. During your second semester you will choose your degree program
4. Successfully complete your program
5. Progress directly onto year one of your chosen degree

CONTINUATION DEGREES
The IFY offers you a route towards a degree with Jacobs University in subjects ranging from the natural sciences, mathematics and engineering to the social sciences and economics.

- BSc Mathematics
- BSc Computer Science
- BSc Electrical and Computer Engineering
- BSc Robotics and Intelligent Systems
- BSc Industrial Engineering & Management
- BSc Biochemistry and Cell Biology
- BSc Chemistry and Biotechnology
- BSc Medicinal Chemistry and Chemical Biology
- BSc Integrated Social and Cognitive Psychology
- BSc Earth and Environmental Sciences
- BSc Physics
- BA Global Economics and Management
- BA International Business Administration
- BA Society, Media and Politics
- BA International Relations: Politics and History
- BSc Earth and Environmental Sciences

Please note: To continue directly onto your chosen degree program with Jacobs University, you will need to successfully complete the International Foundation Year and have achieved a minimum score of 1050 in a SAT/ACT/TestAS.
Our core modules have been designed to complement your subject specific studies and place great importance on your personal and academic development.

### You Will Study A Combination Of These Modules Throughout Your International Foundation Year:

<table>
<thead>
<tr>
<th>Module</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English For Academic Purposes</strong> (10 Credits)</td>
<td>This module strengthens your English language abilities in all four language skills (listening, speaking, reading, and writing) and improves your academic study skills. In your first semester, this module is generic, covering all subjects. In your second semester you will focus on your particular subject area.</td>
</tr>
<tr>
<td><strong>Basic Or Advanced Mathematics</strong> (5 Credits)</td>
<td>Upon joining the program, you will be given a Mathematics placement test which will determine whether you take the basic or advanced route. Both are designed to develop your skills around mathematics and statistics.</td>
</tr>
<tr>
<td><strong>Digital Literacy</strong> (5 Credits)</td>
<td>This module is delivered in the first semester and enables you to develop your basic IT skills such as using Microsoft Office. It also helps you to develop your research and evaluative skills through appropriate use of the internet. You will also learn how to use the Virtual Learning Environment (VLE) and social media as a tool to communicate effectively with your tutors and fellow students.</td>
</tr>
<tr>
<td><strong>SATS Preparation</strong></td>
<td>This is a non-credit bearing part of your studies. If you are not already academically qualified for entry to Jacobs University then you will need to take the SATs. This module provides you with training for the SATs that you will need to take before progressing to the University.</td>
</tr>
<tr>
<td><strong>Personal Development</strong> (10 Credits)</td>
<td>This module is delivered throughout your studies. It has been specially designed to help you understand what is expected of you on the program and enable you to mature into your studies. It also provides you with general skills which not only pave the way for success academically but which are also skills for life, related to the professional standards required in the world of employment.</td>
</tr>
</tbody>
</table>
BUSINESS

This pathway prepares you with the necessary foundation to pursue a future in business. A career in business can cover a range of fields from management and accounting to marketing and human resource management. You can also gain practical and professional business skills which enhance your employability for the job market.

DURATION:
TWO SEMESTERS (one year)

START DATES:
SEPTEMBER | JANUARY

SUBJECT-SPECIFIC MODULES:

FOUNDATION BUSINESS
This module provides you with a general introduction to the study of business by introducing the different aspects a firm has to cope with such as organisation, strategic management, financial management, marketing, human resource management, business processes, corporate social responsibility, and legal foundations. The module covers the different types of businesses, from start-ups, over small and medium sized companies to multinational enterprises.

FINANCIAL ACCOUNTING
This module aims to introduce you to the basic mechanics and processes of financial accounting in both theory and practice, including bookkeeping. It further helps you to understand the importance of financial accounting procedures and the resulting financial statements for running a business.

FOUNDATION ECONOMICS
This module introduces you to political economy, macroeconomics and microeconomics, and their differences. The module considers economic aspects of production, distribution and consumption of goods and services, introduces the idea of markets as places for economic transactions, including supply and demand, and explains the role of money in a society.

STATISTICS FOR BUSINESS AND THE SOCIAL SCIENCES
This module builds on prior studies of Mathematics at high school. The module covers mathematical calculation, statistical methods, as well as presentation and interpretation skills of statistical data. It helps you to develop critical skills in assessing the reliability of data that is presented to you.

DEGREE RECOMMENDATIONS:
- BA Global Economics and Management
- BA International Business Administration

Center for Higher Education Development (CHE) Ranking reports on more than 300 universities, colleges, and technical colleges. In addition to criteria such as subjects, teaching quality, and research, the rankings also gather feedback from students about studying at the various institutions.
COMPUTER SCIENCE

This pathway gives you a great start to a future career in computer science. You will learn the fundamentals of computer programming, coding, mathematics and technology. Computer science lies at the core of all modern industries and plays a major role. A career in computer science can lead to positions within an IT department or several other professions such as software developer, computer analyst, software engineer and many more.

DURATION: TWO SEMESTERS (one year)

START DATES: SEPTEMBER 1 JANUARY

FUNDAMENTALS OF PROGRAMMING WITH PYTHON 3
This module introduces you to the process of programming. The general principles of the Python 3 programming language are outlined and then you will develop your programming skills by learning to program using Python 3. The teaching approach will involve some theory and trouble-shooting sessions but will feature a significant number of hours engaged in the practical work involved in learning and working with Python 3.

MATHEMATICS FOR COMPUTER SCIENCE
This module builds on the core module of Mathematics offered during the first semester. It provides you with a grounding in mathematical structures and techniques commonly used to describe, analyse and reason about data structures and algorithms. It also introduces you to the mathematical foundations of computing systems.

PROBLEM SOLVING
This module aims to introduce you to the notion of problem solving employing a range of techniques and including using computer applications. It provides you with a basic understanding of algorithms and their uses and with the additional experience of developing and using simple software programs in Python 3 to help solve particular problems. The overall aim is to develop transferable skills which will benefit you as you progress in your studies.

COMPUTER SYSTEMS
This module introduces you to the structure and components of a computer system and the key components and responsibilities of an operating system. This will provide a useful and practical grounding for further studies.

DEGREE RECOMMENDATIONS:
- BSc Mathematics
- BSc Computer Science
- BSc Electrical and Computer Engineering
- BSc Robotics and Intelligent Systems

STUDENT TEAMS AT THE UNIVERSITY PARTICIPATE REGULARLY IN INTERNATIONAL PROGRAMMING COMPETITIONS. THE STUDENT-ORGANISED JACOBHACK! HACKATHON ATTRACTS PARTICIPANTS FROM ALL OVER EUROPE, WITH SPONSORSHIPS BY AMAZON, FACEBOOK, GITHUB, GOOGLE, SKYSCANNER AND TWILIO.
This pathway is the first stage of your journey to the Industrial Engineering & Management (IEM) degree program at Jacobs University. The IEM program prepares graduates for a career at the intersection of management and engineering. For students who dream of a future leading industrial and trade enterprises, engineering research or education, this program opens the door to a wide range of engaging career paths.

**DURATION:**
**TWO SEMESTERS** (one year)

**START DATES:**
SEPTEMBER / JANUARY

**SUBJECT-SPECIFIC MODULES:**

**FUNDAMENTALS OF INDUSTRIAL ENGINEERING, LOGISTICS AND SCM**
This module introduces you to the fundamentals of industrial engineering as these apply to the practical problems of logistics in a business context. You will learn how business manage their supply chains on which they all depend. You will learn the definitions of the basic terms which will help you to understand the efforts which companies make to manage the interconnected networks of individuals and suppliers responsible for product or service creation, procurement, manufacturing assembly and the flow of materials and products from the point of origin to the point of consumption.

**FINANCIAL ACCOUNTING**
This module aims to introduce you to the basic mechanics and processes of financial accounting in both theory and practice, including bookkeeping. It further helps you to understand the importance of financial accounting procedures and the resulting financial statements for running a business.

**MATHEMATICS FOR ENGINEERS**
This module will teach you how to apply basic rules and techniques of integral and differential calculus. You will study number systems, integers, rational and real numbers, examples of the use of the functions of two variables, probability and statistics, including histograms, standard deviation and normal and binomial distribution, and the definition and operation of matrices and vectors.

**FOUNDATION ECONOMICS**
This module introduces you to political economy, macroeconomics and microeconomics, and their differences. The module considers economic aspects of production, distribution and consumption of goods and services, introduces the idea of markets as places for economic transactions, including supply and demand, and explains the role of money in a society.

**DEGREE RECOMMENDATIONS:**
- BSc Industrial Engineering & Management

**CENTER FOR HIGHER EDUCATION DEVELOPMENT (CHE) RANKING REPORTS ON MORE THAN 300 UNIVERSITIES, COLLEGES, AND TECHNICAL COLLEGES. **
In addition to criteria such as subjects, teaching quality, and research, the rankings also gather feedback from students about studying at the various institutions.

Top Ranked in 2020
CHE Ranking for support at the beginning of studies
Center for Higher Education Development (CHE)
This pathway is your route to a choice of degree programs with the department of Life Sciences & Chemistry at Jacobs University. Each program is designed to equip you with the theory and practical skills for a rewarding career across many different industries. You could explore opportunities in forensic science and environmental science to chemistry and aerospace engineering.

**DURATION:**
TWO SEMESTERS (one year)

**START DATES:**
SEPTEMBER & JANUARY

**SUBJECT-SPECIFIC MODULES:**

**FOUNDATION BIOLOGY**
This module revises high school material, and provides you with an understanding of cell structure and function, of how information flows through a cell and the basic principles of metabolism. You are also provided with an introduction to the organisation and integration of physiological processes in nature but with a particular reference to animals and with an emphasis on mammalian, especially human physiology. You will consider a number of physiological processes including the cardiovascular, respiratory and digestive systems.

**FOUNDATION CHEMISTRY**
This module provides you with an introduction to post-High School studies in Chemistry and to provide a stimulating learning environment in which to pass on knowledge and understanding of the basic and more advanced theoretical principles of the subject. There is an emphasis throughout the module on Organic Chemistry and on its impact through practical applications on society.

**PURE MATHEMATICS**
This module revises high school material, strengthens understanding of fundamental principles and prepares you to use mathematical language appropriately and understand mathematical notation, conventions and units. You will learn how a knowledge of Mathematics significantly underpins all the work they will carry out in their scientific studies.

**FUNDAMENTALS OF THE PHYSICAL SCIENCES**
This module provides you with an understanding of materials, solids and fluids, heat and gases and the structure of the atom. In addition, you are introduced to a basic knowledge of earth sciences, geology, meteorology and oceanography.

**DEGREE RECOMMENDATIONS:**
- BSc Biochemistry and Cell Biology
- BSc Chemistry and Biotechnology
- BSc Medicinal Chemistry and Chemical Biology
- BSc Earth and Environmental Sciences
- BSc Physics

**JACOBS UNIVERSITY IS ONE OF THE FEW UNIVERSITIES THAT OFFERS THIS TAILORED AND DESIRABLE COMBINATION OF CHEMISTRY AND BIOTECHNOLOGY.**
SOCIAL SCIENCES

This pathway introduces you to the world of social sciences. You will learn about the society we live in, individual behaviour and what makes us who we are. The field of social sciences offers a variety of career routes from positions in government to counselling and human resource management. You can also continue to study at master’s level. At Jacobs University about 60% of students enter prestigious graduate schools such as Oxford, Cambridge, London School of Economics, Harvard, Johns Hopkins, Georgetown and Sciences Po.

DURATION:
TWO SEMESTERS (one year)

START DATES:
SEPTEMBER 1 JANUARY

INTRODUCTION TO THE SOCIAL SCIENCES
This module introduces you to the study of societies, their relation to individuals within them and the interaction between the individuals themselves. You consider which modern subject areas class as ‘social sciences’, in particular, Sociology, Economics, Political Science, Psychology and Anthropology.

STATISTICS FOR BUSINESS AND THE SOCIAL SCIENCES
This module builds on prior studies of Mathematics at high school. The module covers mathematical calculation, statistical methods, as well as presentation and interpretation skills of statistical data. It helps you to develop critical skills in assessing the reliability of data that is presented to you.

FOUNDATION ECONOMICS
This module introduces you to political economy, macroeconomics and microeconomics, and their differences. The module considers economic aspects of production, distribution and consumption of goods and services, introduces the idea of markets as places for economic transactions, including supply and demand, and explains the role of money in a society.

INTRODUCTION TO PSYCHOLOGY
This module introduces you to the main theoretical approaches to Psychology and considers its historical development as a field of study. You are made aware of key ideas and concepts. The areas on which this module focuses are Social, Cognitive, Developmental and Biological Psychology. Research methods and related ethical considerations are introduced.

DEGREE RECOMMENDATIONS:
• BA Society, Media and Politics
• BA International Relations: Politics and History
• BSc Integrated Social and Cognitive Psychology

THE SOCIETY, MEDIA AND POLITICS PROGRAM HAS THE LARGEST ALUMNI COMMUNITY AT JACOBS – WHICH COMES IN HANDY WHEN EXPLORING JOB OPPORTUNITIES OR JUST MAKING CONTACTS WORLDWIDE.

SUBJECT-SPECIFIC MODULES:

Teaching in the Psychology department
THE Young University Ranking 2019

Teaching in the subject “History”
THE Young University Ranking 2019
CONTINUING YOUR DEGREE AT JACOBS UNIVERSITY

Once you have successfully completed your foundation year, you will continue onto your chosen degree with Jacobs University.

The University offers a broad spectrum of interdisciplinary study programs ranging from the natural sciences, mathematics and engineering to the social sciences and economics. Class sizes are small and for each student a professor acts as a personal mentor and academic advisor. You are actively involved in research from your first year of study at the University.

THE 3C PROGRAM STRUCTURE

Jacobs University study programs are based on European Higher Education Area regulations. All study programs adhere to the European Credit Transfer System (ECTS), which facilitates credit transfer between academic institutions. The three-year undergraduate program involves six semesters of study worth a total of 180 ECTS credits.

The curricular structure follows an innovative and student-centered module scheme – the 3C Model – which groups the curriculum into three overarching themes: Choice, Core and Career.

THE JACOBS TRACK

Our education is not only about building academic skills. We prepare our students to think beyond disciplines with a global, socially-responsible mindset – because we believe well-rounded thinkers are better equipped for success throughout life. That is why the Jacobs Track, that runs parallel to the disciplinary modules across all study years, is an integral part of all study programs.

It encompasses:
- Methods and Skills modules
- Interdisciplinary “Big Questions” modules
- Language modules
- Community Impact Project

YEAR 1

The first study year is characterised by broad, interdisciplinary education that builds on and extends your university entrance qualifications. You select introductory modules from the CHOICE area of a variety of programs. The combination of CHOICE modules provides flexibility and allows you to change your major after the first year of studies.

YEAR 2

In this second year of study you take in-depth, discipline-specific CORE modules. Building on the introductory CHOICE modules and applying the foundational methods and skills acquired so far, these modules expand and deepen your critical understanding of key theories – and build career-focused knowledge of current best practices.

For the majority of study programs, you may also choose to incorporate a minor study track to diversify your undergraduate education.

YEAR 3

At the core of this third-year program is a mandatory internship, providing you with first-hand practical experience in a professional environment. As an alternative, you can apply for the start-up option and develop a business plan for your own company. You may also choose from ample study abroad options. The fifth semester provides specialisation modules that incorporate the latest research in each area of study. The sixth semester is dedicated to fostering meaningful research experience by involving you in an extended Bachelor thesis project.
CAREER OPPORTUNITIES
TAILOR-MADE SUPPORT

A Jacobs education goes beyond disciplinary knowledge, preparing students with the skills and competencies for employability in their dream career. Our comprehensive career services provide guidance through all stages of a student’s development as they grow to become the responsible leaders of tomorrow.

CAREER SERVICES CENTRE
The Jacobs University Career Services Centre offers individual counselling, CV checks and mock interviews, as well as internship research support, professional skills seminars and workshops.

COUNSELING
- Career orientation
- Application check

TRAINING
- Mock interviews
- Online tutorials & CV tool

EXPERIENCE
- Internship program
- Job portal

NETWORKING
- Employer career events
- Alumni community

RECRUITMENT EVENTS
Interactive events such as the annual Career Fair and the Alumni Homecoming connect students with leading global, national and local companies and institutions. In addition, Jacobs University hosts special on-campus recruiting events led by multinational players, such as Facebook, Microsoft, AB InBev, EON, McKinsey, Accenture, Roche, Citrix and Google.

WWW.JACOBS-UNIVERSITY.DE/EMPLOYABILITY

TOP TEN EMPLOYERS OF JACOBS ALUMNI
- Google
- Microsoft
- Roche
- KPMG
- Accenture
- Daimler
- Barry Callebaut
- SAP
- Amazon
- McKinsey

TOP DESTINATIONS FOR GRADUATE STUDIES
- Columbia University
- Harvard University
- Humboldt-Universität
- Massachusetts Institute of Technology
- Rotterdam School of Management
- Stanford University
- ETH Zürich
- London School of Economics
- University of Oxford
- University of Cambridge

Cornel Amariei studied Electrical Engineering and Computer Sciences. During his studies, he invented the "lumen" glasses for the visually impaired, which put him on the Forbes “30 under 30” list in Europe. Today he works as Head of Innovation at Continental in Munich, where he directs innovative eMobility, automated driving, vehicle architecture and smart connectivity projects.

“NOW, WHEN I SEE A PROBLEM, I CAN LOOK AT IT FROM A WHOLE NEW SET OF ANGLES, WHICH I WAS NOT ABLE TO DO BEFORE.”

Cornel Amariei, Romania, Class of 2015

93% FEEL WELL PREPARED FOR A FURTHER STUDY AFTER GRADUATION

40 ALUMNI START-UPS WORLDWIDE
A GLOBAL NETWORK OF ALUMNI

With over 800 registered members – growing more every day – the Alumni Association works very closely with the University on a host of projects that not only help the network grow and develop, but also create new opportunities for students.

THE JACOBS ALUMNI ASSOCIATION

Jacobs alumni are located all over the world and are searchable in the Alumni Association Membership Portal. Projects like the Alumni Mentoring Program, Homecoming and career events on campus allow for alumni to share with students career opportunities and advise for further development. The Alumni Association also works together each year to raise funds to award a scholarship to a student in need who otherwise would not have received financial support.

CAREER ADVICE FROM ALUMNI TO FUTURE STUDENTS
START YOUR APPLICATION
ENTRY REQUIREMENTS

Below is a list of region-specific academic requirements for JUIC. These requirements are indicative only and subject to change. We accept students from over 60 regions worldwide. If your region or qualification is not listed please contact our Admissions team who will be happy to provide you with this information.

<table>
<thead>
<tr>
<th>REGION</th>
<th>NAME OF QUALIFICATION</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangladesh</td>
<td>Higher Secondary Certificate</td>
<td>A minimum of 50% of the maximum grade as an Overall Grade</td>
</tr>
<tr>
<td>China</td>
<td>High School Diploma after 12 years / National College Entrance Examination (Gaokao)</td>
<td>High School Diploma after 12 school years combined with Certificate of Study from a recognised Chinese university. / Pass the Gaokao with the score necessary for admission to the 211 project universities</td>
</tr>
<tr>
<td>Egypt</td>
<td>General Secondary Education Certificate</td>
<td>School report must show that the applicant has passed these examination subjects: Arabic, 1st Foreign Language, 2nd Foreign Language and chosen stream relevant subjects. Applicants are required to have achieved at least 60% of the maximum grade as an overall grade</td>
</tr>
<tr>
<td>France</td>
<td>Diplomas du Baccalauréat General</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>HKDSE Hong Kong Diploma of Secondary Education</td>
<td>The following subjects must be documented in the certificate: Chinese language, English language, Mathematics, Liberal Studies 2 further, independent general education subjects All subjects must have passed at least a “Level 3” grade</td>
</tr>
<tr>
<td>India</td>
<td>Standard XII</td>
<td>Minimum overall percentage of 50%</td>
</tr>
<tr>
<td>Italy</td>
<td>Diploma di superamento dell’esame di stato conclusivo dei corsi di studio di</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Jordan</td>
<td>General Secondary Education Certificate</td>
<td>Achieving a minimum passing grade relevant to chosen stream of study</td>
</tr>
<tr>
<td>Kenya</td>
<td>Kenya Certificate of Secondary Education (KCSE)</td>
<td>Achieving a minimum grade of C+</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Sijil Pelajaran Malaysia (SPM)</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Morocco</td>
<td>Baccalauréat de l’Enseignement Secondaire</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Higher Secondary School Certificate</td>
<td>Successful completion with a minimum of 50%</td>
</tr>
<tr>
<td>Portugal</td>
<td>Certificado Nivel Secundario de Educacao + Direccao Geral do Ensino Superior</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Russia</td>
<td>Attestat o srednem (polnom) obsem obrazovanii</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>South Africa</td>
<td>Matriculation Certificate</td>
<td>Successfully pass and graduate</td>
</tr>
<tr>
<td>South Korea</td>
<td>Secondary school leaving certificate (with overview of subjects and grades/transcript) together with University entrance examination</td>
<td>In the subject and grade overview of the secondary school leaving certificate a continuous attendance of the following subjects in grades 10-12 with passing grades must be proven: mother tongue, foreign language, mathematics and natural sciences In the university entrance examination the following result must be achieved: an average “Stanine” score between 1.0 and 4.4</td>
</tr>
<tr>
<td>Thailand</td>
<td>Higher Certificate of Education (Education as teacher for the “lower secondary stream”)</td>
<td>In addition to the certificate, an official English-language summary of subjects and grades or a Thai-language summary of subjects and grades with a German translation must be submitted</td>
</tr>
<tr>
<td>Ukraine</td>
<td>Svidoctvo pro zdobuttja povnoji zahal’noji serednoji osvity (from 2019) / Atestat pro povnu zahal’nu serednju osvitu (till 2018)</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Uzbekistan</td>
<td>Akademik litsey diplomi / Diploma of Academic Lyceum</td>
<td>Achieving a minimum passing grade</td>
</tr>
<tr>
<td>Vietnam</td>
<td>Bang Trung Hoc Pho Thong Ban or Giay Chung Nhan</td>
<td>Higher education entrance examination with 15 points or better (until 2014) or national secondary school examination (from 2015) with 24 points or better or national secondary school examination (from 2017) with 36 points or better plus proof of enrollment</td>
</tr>
</tbody>
</table>

ENGLISH LANGUAGE REQUIREMENTS

IFY: CEFR B2 or IELTS 5.5
IFY + 6 WEEK PSE: CEFR B1 or IELTS 4.5
IFY + 12 WEEK PSE: CEFR A2 or IELTS 4.0

YOU CAN CONTACT US AT FOUNDATIONYEAR@JACOBS-UNIVERSITY.DE
The total cost of the foundation year is €28,000. This amount includes all costs associated with the program, including tuition fees, room and board, a semester ticket for local transportation, exam fees, and the following benefits:

- Academic advising for a smooth transition to higher education
- SAT test preparation and registration
- Residential colleges with modern single rooms
- In-college cafeterias with full board
- Fully equipped recreation centre and multimedia rooms
- Orientation week to facilitate your arrival to Jacobs University
- Host-family program
- 24/7 security service on university campus

The remainder of your degree studies will be payable to Jacobs University and you can find more information about undergraduate study fees here.

Once you’ve successfully completed your foundation program you will automatically receive a merit-based scholarship upon progression. This scholarship is towards your Jacobs University tuition costs.

In cooperation with Jacobs University’s partner Brain Capital, the JUSudyAtEase tuition loan program provides you with a flexible financing option for your studies.

To find out more about how Jacobs University provides support for your education visit pages 20–21.
ADMISSIONS PROCESS

Applying for the IFY at JUIC is easy! To get started, submit your online application at:

WWW.JACOBS-UNIVERSITY.DE/IFY-APPLY-FEES

TO COMPLETE YOUR ONLINE APPLICATION, YOU WILL NEED THE FOLLOWING:

- Copy of original high school certificate and transcripts of the last 2-3 years
- Official recommendation letter from a high school counselor or a teacher on letterheaded paper
- A personal motivation statement
- Proof of English language proficiency; minimum score of 65 on the TOEFL iBT / 5.5 on the IELTS (UK) / 46 on the Pearson PTE Academic or 162 on the Cambridge Certificate (FCE) / 90 on the Duolingo English test
- The Education History Form

7 STAGES AFTER YOU SUBMITTED YOUR APPLICATION

STAGE 1: CHECK DOCUMENTS AND QUALIFICATIONS
We will carefully review your application, check if you submitted all necessary documents and if you are eligible to apply to the program.

STAGE 2: ISSUE ADMISSION DECISION
Assuming your application is successful, we will send you a conditional offer of a place in the program.

STAGE 3: ENROLL IN THE PROGRAM
To accept a place in the program, you will need to submit the enrollment confirmation form and pay a deposit. The Offer Letter will contain the deposit amount.

STAGE 4: APPLY FOR VISA
You will then need to apply for your visa if applicable. With your admission letter, you are provided with a visa letter “Zulassungsbescheid” which you will need to complete your visa application. Students who require a visa for Germany should apply as soon as possible as the visa process can take up to 90 days. Our visa specialists are also here to guide you and support you during the process.

STAGE 5: FINAL PAYMENT
Advance payment of remaining fees will be required prior to arrival.

STAGE 6: SIGN YOUR STUDENT CONTRACT
Your student contract contains all relevant rights and obligations that will tie you to Jacobs University. Review your individualised version of the student contract very carefully, sign it and send it back.

STAGE 7: PREPARE YOUR ARRIVAL
Log onto your VIP page to learn more about all the necessary steps to go through for a smooth start at Jacobs University! Get information about your German health insurance, fill out the housing survey, let us know about your arrival date, and much more.
VISA ADVICE

If you plan to study JUIC in Germany and you are not an EU/EEA citizen, you will need to apply for a student visa from the respective German mission in your country (or nearest location) before travelling.

Visa applications can take up to 90 days to process and so it is important to apply as early as possible.

Please also note that students from the following countries among others currently do not require a visa for entering Germany: Andorra, Australia, Brazil, El Salvador, Honduras, Israel, Japan, Canada, Monaco, San Marino, South Korea, USA, Switzerland, all EU and EEA countries.

INTERNATIONAL STUDENTS

You will need to provide a number of documents to support your visa application. Examples of what you will need to provide are below, however, we recommend checking the website of the relevant German mission in your country as requirements may vary.

German Missions:

[Website link]

Documents required are likely to include:

- Valid passport
- Certificate confirming health insurance
- Evidence of financial means
- Evidence of acceptance into your chosen university/degree (your Formal Offer Letter)
- Evidence of your academic and language qualifications

You will need to evidence that you are able to finance your study and living expenses for the duration of your studies with us in Germany.

VISA ISSUANCE

Processing times will vary per country, but it can sometimes take up to 90 days. It’s important that you apply as soon as possible.

[Website link]

CONTACT US

If you would like to know more or if you have any questions, please contact us today – we would love to hear from you!

Whatsapp/WeChat: +49 151 142 67 805
Tel: +49 421 200-4313
Skype: foundationyear
Email: foundationyear@jacobs-university.de
Online: jacobs-university.de/ify

FOLLOW US

@JACOBSUNIVERSITY
/JACOBS.UNIVERSITY
/JACOBSUNI

PARTNERSHIP

Jacobs University operates JUIC in partnership with Oxford International. Founded in 1991, Oxford International is an accredited, private education provider that operates independent boarding schools, international colleges and English language centres across the UK and North America to create life enhancing experiences for students worldwide. Their programs help over 50,000 UK and international students achieve academic success every year.

[Website link]