# UMWELT-CAMPUS BIRKENFELD (UCB) **ENVIRONMENTAL CAMPUS BIRKENFELD**

sustainable. innovative. digital.

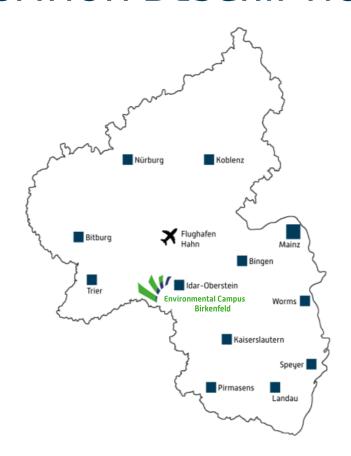








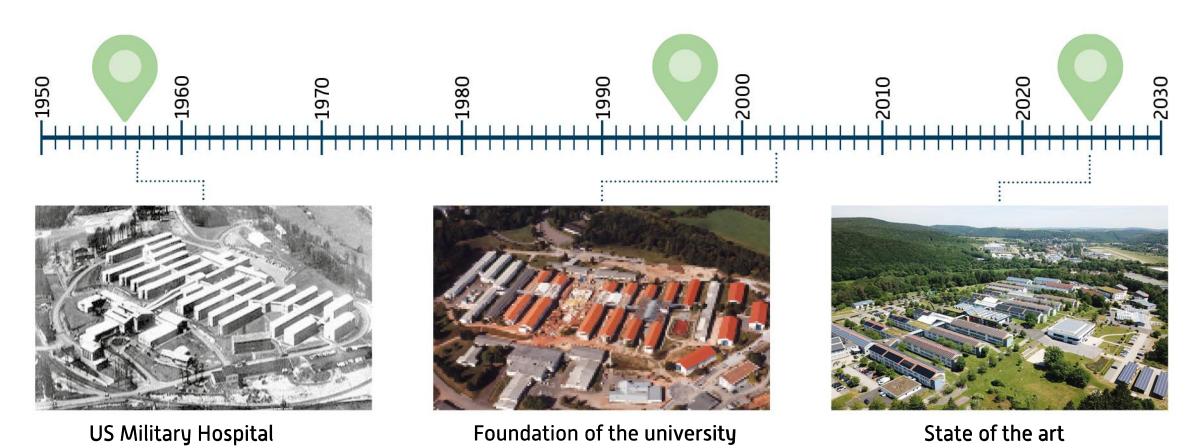
## SITUATION DESCRIPTION.





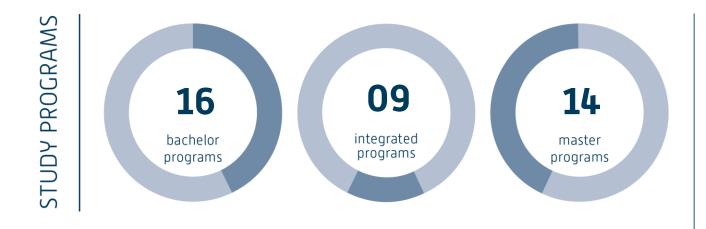


# A UNIQUE IDEA.



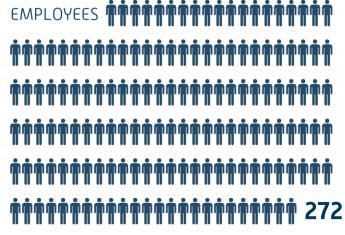


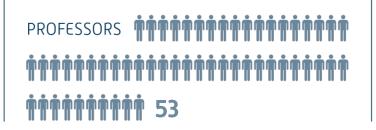
# NUMBERS, DATA & FACTS.

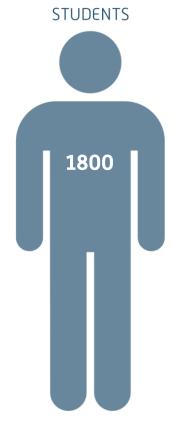


ZERO EMISSION CAMPUS

O2 FACULTYS since **1996** 



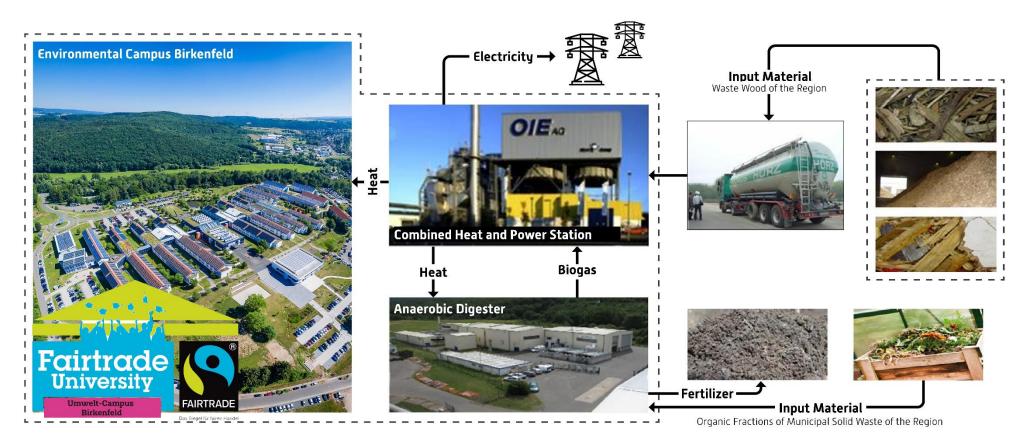








# GERMANY'S FIRST "ZERO-EMISSION CAMPUS".



21.01.2025



# GERMANY'S FIRST "ZERO-EMISSION CAMPUS".

## Innovative building technology:

Ground collectors for optimized outdoor air supply

Heat exchanger for the exhaust air

Solid absorber for residual heat utilization

Transparent thermal insulation elements a. o. in front of solid walls

**Daylight Steering Systems** 

Automatic ventilation system

Solar collectors and cells

Rainwater harvesting



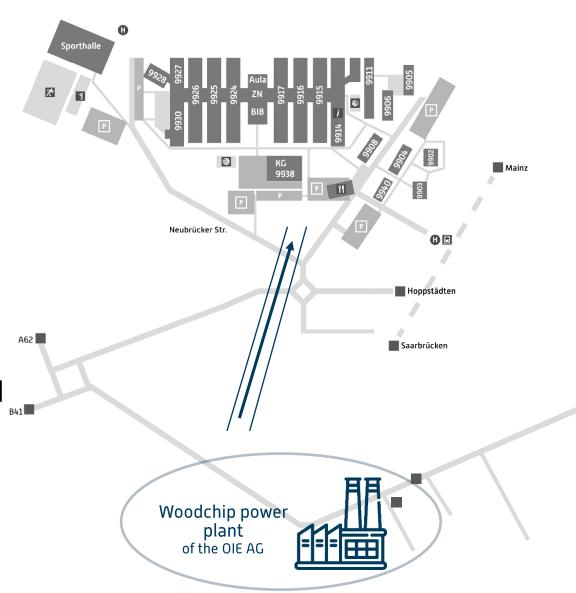


# GERMANY'S FIRST ZERO-EMISSION CAMPUS.

## Local heating network:

 Woodchip power plant of the OIE AG

ROFU Children's Land





# THE GREENEST UNIVERSITY IN GERMANY.

2024 — GreenMetric Ranking - Environmental Campus Birkenfeld of the University of Trier continues to be a role model for sustainability



Sustainability Officer Prof. Dr. Klaus Helling proudly accepts the plague from Jackeline Martinez at the UCB

- 6rd place in the global sustainability ranking
- In 1st place nationally for the eighth year
- Increase in participating higher education institutions/universities from
   1,183 from 84 countries (2023) to 1,477 (2023) from 95 countries

"We continue to focus on sustainability but always paired with an excellent undergraduate education in the chosen field of study."

(Prof. Dr. Klaus Helling - Sustainability Officer UCB)





# GERMAN SUSTAINABILITY AWARD.

- Umwelt-Campus makes it to the three finalists in the "School and University" category
- German Sustainability Award (DNP) is a prestigious award for outstanding achievements in the field of sustainability
- Honors exemplary companies/institutions from 100 sectors
- Record participation with almost 3,000 participants from business, politics, research and civil society





Further nominations: Eberswalde University for Sustainable Development (winner) & Technical University of Munich



# CHE-RANKING 2023 + 2024.

- Computer Science: Quality rating highly recommended
  - Students above averagely satisfied with study situation
  - Very good support from lecturers
- Department of Environmental Economics/Environmental Law (UW/UR) achieves 15fold top rankings in areas including:
  - Support at the beginning of studies
  - International orientation
  - Labor market and career orientation



**DEUTSCHLANDS GRÖSSTES** 



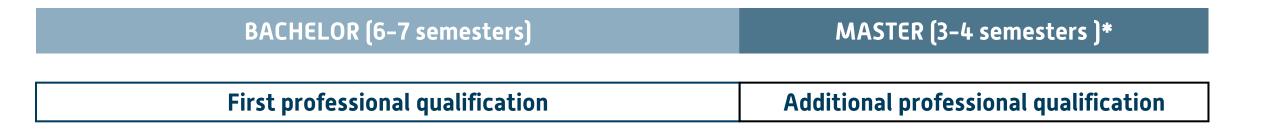
The Center for Higher Education Development (CHE) is responsible for Germany's largest university ranking, which takes into account the opinions of 120,000 students and 3,000 professors.





## TIERED STUDY SYSTEM.



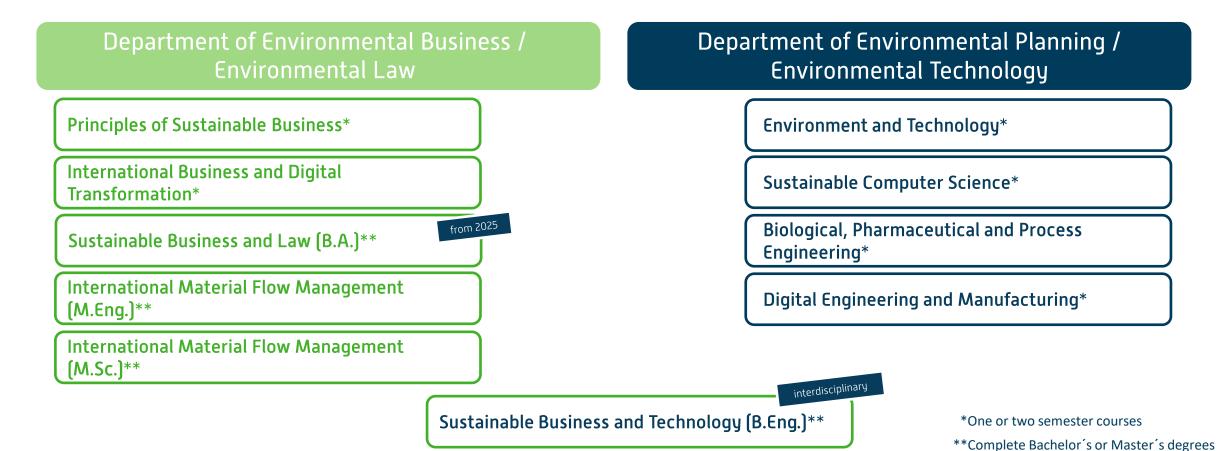


<sup>\*</sup> Courses of study built on each other in terms of content max. 10 semesters in total





## INTERNATIONAL PROGRAMS IN ENGLISH.



## ONE OR TWO SEMESTER COURSES.

### **Principles of Sustainable Business**

Gain hands-on experience of successful sustainable projects and experience how to adapt to today's main challenge of integrating business success and sustainability.

### **International Business and Digital Transformation**

More than anything else digitalization affects the way we do business. New business models are on the rise, while other are in danger. The new generation needs its own toolbox to face the challenges ahead.

## **Environment and Technology**

This Study Program offers the possibility to choose from a wide range of classes in the fields of engineering, sustainability, economics and ecology.

### **Sustainable Computer Science**

This Study Program offers the possibility to choose from a wide range of classes in the fields of computer science, sustainability, economics and ecology.

## **Biological, Pharmaceutical and Process Engineering**

The exchange Program offers the opportunity to choose from a wide range of courses in the fields of engineering and process engineering. Possible subjects include "Physics", "Thermodynamics", "Lab Work" or project work.

## **Digital Engineering and Manufacturing**

This exchange Program offers the possibility to choose from a wide range of courses in the fields of engineering and digitalization. Possible subjects include "Principles of Engineering I and II" or "Manufacturing Technology".

### **EXCELLENT CONDITIONS**

- All modules taught in English
- Fully credited with 30 ECTS points per semester
- Stay for 1 or 2 semesters
- Live on-campus in Birkenfeld, Germany
- No tuition fees, only general admission fee and other additional charges

## COMPLETE BACHELOR'S OR MASTER'S DEGREES.

## Sustainable Business and Technology (B.Eng.) -Interdisciplinary

Preparation for leading positions in global teams at the interface between business and engineering. This Bachelor program incorporates all aspects necessary to meet the demand of young students seeking a global perspective at the edge between business and technology.

## **Sustainable Business and Law (B.A.)**

This innovative program combines cutting-edge business strategies with a deep understanding of ESG law and communication skills. By providing students with the expertise to navigate complex business situations, ensure ESG compliance, and lead responsibly in the global marketplace, this program will train you to become tomorrow's expert.

## **International Material Flow Management (M.Eng./M.Sc.)**

This Master program is an interdisciplinary approach that encompasses knowledge areas in engineering, economics, natural sciences, law and communication science. It combines the substantive focus of engineering with scientific, social and economic aspects.



# PRINCIPLES OF SUSTAINABLE BUSINESS.

## **Study Semester**

Are you studying business, ecology or environmental science and want to acquire key qualifications in sustainable management? Take part in a one or two semester intensive course and learn how companies gain valuable advantages in the international market and prosper by implementing sustainable business solutions.

Gain hands-on experience of successful sustainable projects and experience how to adapt to today's main challenge of integrating business success and sustainability.

**Summer semester** (March/April to July):

Application deadline: December 1st

Winter semester (September/October to January/February):

Application deadline: July 1st

Winter semester	Summer semester	
Fundamentals of Sustainable Business and	Fundamentals of Entrepreneurial Management / 5	
Circular Economy / 10	Digitalization / 5	
Management of Non-Governmental Organizations / 5	Sustainable Development Goals / 5	
German Language and International Business Culture / 5	German Language and International Business Culture / 5	
Ethics and Society / 5	Sustainable Waste and Waste Water Treatment Technologies / 5	
Sustainability and Law / 5	Cleaner Production and Operations Management / 5	
Compulsory Modules	Environmental Policy / 5	
Module / ECTS	Sustainable Conflict Resolution / 5	



# INTERNATIONAL BUSINESS AND DIGITAL TRANSFORMATION.

## **Study Semester**

To be a next generation entrepreneur, you need to understand the blueprint for digital business models, speak the language of social media and be a global player. In our program you will acquire knowledge about sustainable business models and deal with all aspects of digitalization.

You will also gain key knowledge about cultural identities and be able to contextualize perspectives, viewpoints and expectations in a communicative context in a wide range of settings.

Summer semester (March/April to July):

Application deadline: **December 1**st

Winter semester (September/October to January/February):

Application deadline: July 1st





# **ENVIRONMENT & TECHNOLOGY.**

## **Study Semester**

Students of engineering, ecology or environmental sciences can gain key qualifications in environmentally friendly technologies by studying at Germany's greenest university!

Gain new experience by attending our "Study Exchange Program" for one or two semesters.

**Summer semester** (March/April to July):

Application deadline: **November 1**st

**Winter semester** (September/October to January/February):

Application deadline: July 15th

#### Bachelor's level winter semester

module	module code	duration of module	ECTS
Principles of Engineering II	PRINCENG II	1 semester	5
Information Technology	INFORTEC	1 semester	5
German Foreign Language	GFL [A1/B1/C1]	1 semester	5
Project work	FP	1 semester	5

module	module code	duration of module	ECTS
Principles of Engineering I	PRINCENG I	1 semester	5
Chemistry and Ecology	CHECO	1 semester	5
Solar Energy	SOLAR	1 semester	5
Sustainable Energy Systems	SUENSY	1 semester	5
Manufacturing Technology	MANUTEC	1 semester	5
German Foreign Language	GFL [A2/B2]	1 semester	5
Project work	FP	1 semester	5
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## SUSTAINABLE COMPUTER SCIENCE.

## **Study Semester**

Are you a student in information technology, computer science or a related field?

Our Study Exchange Program "Sustainable Computer Science" offers the possibility to choose from a wide range of classes in the fields of computer science, sustainability, economics and ecology. Some possible subjects are "Remote Sensing", "Information Technology" or "Cyber-Physical Systems". In addition, you can also take German as a foreign language.

**Summer semester** (March/April to July): Application deadline: **November 1**<sup>st</sup>

**Winter semester** (September/October to January/February): Application deadline: **July 15**<sup>th</sup>

#### Bachelor's level winter semester

module	module code	duration of module	ECTS
Mathematics I	MATHENG I	1 semester	5
Cyber-Physical-Systems	CPS	1 semester	5
Recent Topics on Internet of Things and Data Science	RTID	1 semester	5
Remote Sensing	REMSEN	1 semester	5
Information Technology	INFORTEC	1 semester	5
Energy Informatics	ENINF	1 semester	5
German Foreign Language	GFL	1 semester	5
Project/ Lab Work	FP	1 semester	5

module	module code	duration of module	ECTS
Recent Topics on Internet of Things and Data Science	RTID	1 semester	5
Solar Energy	SOLAR	1 semester	5
Geo Engineering	GEOENG	1 semester	5
German Foreign Language	GFL	1 semester	5
Project/ Lab Work	FP	1-2 semester	5-10



# BIOLOGICAL, PHARMACEUTICAL AND PROCESS ENGINEERING.

## **Study Semester**

Are you studying biotechnology, pharmaceutical engineering, process engineering or a related field?

Our Study Exchange Program "Biological, Pharmaceutical and Process Engineering" offers the opportunity to choose from a wide range of courses in the fields of engineering and process engineering.

Possible subjects include "Physics", "Thermodynamics", "Lab Work" or project work. The subjects are either offered in English or can be taken without German language skills.

In addition, you can study German as a foreign language.

**Summer semester** (March/April to July):

Application deadline: November 1st

Winter semester (September/October to January/February):

Application deadline: July 15th

#### Bachelor's level winter semester

module	module code	duration of module	ECTS
Physics	PHYENG	1 semester	5
Applied biotechnology	АРРВІО	1 semester	5
Mathematics I	MATHENG I	1 semester	5
Interdisciplinary project work	IP	1 semester	5
Specialized project module	FP	1 semester	5
German Foreign Language	GFL [A1/B1/C1]	1 semester	5

module	module code	duration of module	ECTS
Thermodynamics	THERMO	1 semester	5
Lab Work	LAWO	1 semester	5
Chemistry and Ecology	CHECO	1 semester	5
Applied biotechnology	АРРВІО	1 semester	5
Interdisciplinary project work	IP	1 semester	5
Specialized project module	FP	1 semester	5
German Foreign Language	GFL [A2/B2]	1 semester	5



# DIGITAL ENGINEERING AND MANUFACTURING

## **Study Semester**

Are you studying mechanical engineering, engineering science or a related field?

Our Study Exchange Program "Digital Engineering and Manufacturing" offers the possibility to choose from a wide range of courses in the fields of engineering and digitalization.

Possible subjects include "Principles of Engineering I and II" or "Manufacturing Technology". The subjects are mainly offered in English.

In addition, you can also take German as a foreign language.

**Summer semester** (March/April to July):

Application deadline: November 1st

Winter semester (September/October to January/February):

Application deadline: July 15th

#### Bachelor's level winter semester

module	module code	duration of module	ECTS
Mathematics I	MATHENG	1 semester	5
Physics	PHYENG	1 semester	5
Principles of Engineering II	PRINCENG II	1 semester	5
Information Technology	INFORTEC	1 semester	5
German Foreign Language	GFL	1 semester	5
Project work	FP	1 semester	5

module	module code	duration of module	ECTS
Thermodynamics	THERMO	1 semester	5
Finite Element Analysis	FINELE I	1 semester	5
Manufacturing Technology	MANUTEC	1 semester	5
Principles of Engineering I	PRINCENG I	1 semester	5
German Foreign Language	GFL	1 semester	5
Project work	FP	1 semester	5



# SUSTAINABLE BUSINESS AND TECHNOLOGY (B.ENG.)

## Bachelor of Engineering (B.Eng.)

Get prepared for leading positions in global teams at the interface between business and engineering, providing the canvas for managers of tomorrow.

This interdisciplinary bachelor degree program incorporates all aspects necessary to meet the demands of students seeking a global perspective at the interface between business and technology.

The focus on sustainability, green technologies, and a globally interrelated perspective provides future graduates with excellent key qualifications and enables them to master the challenges of our time.

Beginning of the course: Winter semester

**Standard course length:** 6 Semesters (180 ECTS)

Language of instruction: English

Application deadline:

15 May (non-EU and non-EEA applicants), 31 August (EU and EEA applicants)

Admission restriction (N. C.): no

**Requirements:** Higher Education Entrance Qualification, entrance qualification for universities of applied sciences or special access for professionally qualified persons;

**Fees:** None (only semester fees)

Sem	Module / ECTS					
1	Mathematics I / 5	Physics/ 5	Fundamentals of Sustainable Business / 10		Intercultural Communication / 5	German/Foreign Language I / 5
2	Mathematics II / 5	Chemistry and Ecology / 5	<b>Thermodynamics</b> / 5	Principles of Engineering I / 5	Accounting and Finance I / 5	German/Foreign Language II / 5
3	Principles of Engineering II / 5	Information Technology / 5	International Law and International Economic Policy / 5	Scientific Methods and Concepts/ 5	Accounting and Finance II / 5	German/Foreign Language III / 5
4	Sustainable Waste and Waste Water Treatment Technologies / 5	Sustainable Energy Systems / 5	Lab Work / 5	Manufacturing Technology / 5	Cleaner Production and Operations Management / 5	German/Foreign Language IV / 5
5	Ethics and Society / 5	Elective / 5	Elective / 5	Interdisciplinary Project / 10		German/Foreign Language V / 5
6	Elective / 5	Elective / 5	Career Planning and Employability / 5	Bachelor-Thesis and Colloquium / 15		



# SUSTAINABLE BUSINESS AND LAW (B.A.)

## Bachelor of Arts (B.A.)

Get prepared for leading positions in global teams at the interface between business and engineering, providing the canvas for managers of tomorrow.

This interdisciplinary bachelor degree program incorporates all aspects necessary to meet the demands of students seeking a global perspective at the interface between business and technology.

The focus on sustainability, green technologies, and a globally interrelated perspective provides future graduates with excellent key qualifications and enables them to master the challenges of our time.

**Beginning of the course:** Winter semester

**Standard course length:** 6 Semesters (180 ECTS)

Language of instruction: English

Application deadline:

15 May (non-EU and non-EEA applicants), 31 August (EU and EEA applicants

Admission restriction (N. C.): no

Requirements: General Higher Education Entrance (allgemeines Abitur),

proved knowledge of the English language (B2-level)

**Fees:** None (only semester fees)

Sem						
1	Fundamentals of Science and Scientific Methods	Fundamentals of Law	Fundamentals of Sustainable Business I	Fundamentals of Accounting	Intercultural Communication	German I / Foreign Language / Elective
	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS
2	Sustainability in Law: ESG I	Sustainability in Law: ESG II	Fundamentals of Sustainable Business II	Digitalization	Accounting	German II / Foreign Language / Elective
	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS
3	Legal Compliance	Energy and Resource Law	Economics and Fundamentals of Business Taxation	Strategic Innovation and Entrepreneurship	Corporate Finance	German III / Foreign Language / Elective
	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS
4	Advanced Seminar	Labour and Supply Chain Law	Comparative Legal Case Studies	Sustainability and Business Communication	Elective	German IV / Foreign Language / Elective
	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS
5	Ethics and Society	Legal Foundations of Green Finance	Sustainability Reporting	Quantitative Business and Management	Elective	German V / Foreign Language / Elective
	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS
6	6 Elective		Interdiscipli	inary Project	Bachelor Thesis	and Colloquium
	51	ECTS	10 ECTS		15 ECTS	





Applied Sciences and Engineering (B. Eng.)

Biological and Pharmaceutical Engineering (B. Sc.)

Bioengineering and Process Engineering (B. Eng.)

Biopharmaceutical Drug Manufacturing (B. Eng.)

Renewable Energy (B. Sc.)

Mechanical Engineering (B. Eng.)

Communication Psychology and Sustainability (B. Sc.)

Applied Computer Science and Artificial Intelligence (B. Sc.)

Media Informatics (B. Sc.)

Environmental Informatics and Business Information Systems (B. Sc.)

Industrial Engineering/Environmental Planning (B. Sc.)



## GERMAN DUAL DEGREE.

Sustainable Business Management (B. A.)

Nonprofit and NGO-Management (B. A.)

Applied Computer Science and Artificial Intelligence (B. Sc.)

Biological and Pharmaceutical Engineering (B. Sc.)

Media Informatics (B. Sc.)

Environmental Informatics and Business Information Systems (B. Sc.)

Production Technology (B. Eng.)

Biopharmaceutical Drug Manufacturing (B. Eng.)

Cleanroom Technology in Pharmaceutical Manufacturing (M. Eng.)

## GERMAN MASTER.

Sustainable Business Management (M. A.)

Business Law and Energy Law (LL. M.)

Insolvency and Reorganization Law (LL. M.)

part-time

Sustainable Change - from Knowledge to Action (M. A.)

part-time

International Material Flow Management (M. Eng.)



International Material Flow Management (M. Sc.)



Applied Computer Science (M. Sc.)

Bio-, Pharmaceutical and Process Technology (M. Sc.)

Business Administration and Engineering (M. Sc.)

Digital Product Development - Mechanical Engineering (M. Eng.)

Media Informatics (M. Sc.)

Renewable Energy (M. Sc.)

Projectmanagement: Communication, Psychology and Sustainability (M. Sc.)

Cleanroom Technology in Pharmaceutical Manufacturing (M. Eng.)

NEW







# RESEARCH INSTITUTES AND COMPETENCIES.

Trier University of Applied Sciences also stands for toplevel, application-oriented research.

In the practice-oriented training, the Environmental Campus offers the opportunity to try out the theoretically acquired knowledge in one of the numerous research facilities.













Technologiemanagement











21.01.2025

# THIRD-PARTY FUNDS.



- Powerful & application-oriented research
- Strengthening of the position as the third most funded university of applied sciences in Rhineland-Palatinate

Institute for applied
Material Flow Management (IfaS)

With around 80 employees, IfaS raises a large part of the third-party funding at UCB

# AROUND THE WORLD.

- Foreign language training
- Possibility of the semester abroad
- 3 Language labs

## **Partner Universities:**

- Erasmus: Austria, Belgium, Bulgaria, Croatia, Cyprus, Estonia, France, Finland, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Norway, Poland, Portugal, Romania, Serbia, Spain, Sweden, Turkey
- and more: Africa: Ghana, Morocco, Namibia

America: Brazil, Canada, Chile, Columbia, Mexico, Peru, USA,

Asia: China, India, Japan, Jordan, Kazakhstan, Korea, Thailand, Taiwan, Sri Lanka

Oceania: Australia, New Zealand







## CAMPUS FEATURES.

- "Flying Days" introductory event
- Reference to environmentally relevant topics
- Cross-border cooperation
- Close practical relevance / cooperation with companies

- Guest lectures and lecture series on current topics
- Integration into applied research projects
- Interdisciplinary project work, preliminary internships
- Boundless educational opportunities





## LIVING AT THE ENVIRONMENTAL CAMPUS.

- Directly at the Hunsrück-Hochwald National Park
- Train connection at the campus
   (Unrestricted Germany ticket from summer semester 2024)
- 8 student dormitories 500 dormitory places

- Canteen, tea room, pub, barbecue areas
- Various sports facilities, recreational rooms
- PhysioFitness, bookstore, tax office, cinema...





# STUDENT.



- ASTA, StuPa, Student Councils
- Green Office the sustainability office at UCB
- Various sports groups, new sports hall, soccer, beach volleyball, tennis and basketball courts.
- Green Hill Festival
- Tea room
- Cinema club, theater group, bands
- Campus garden project
- Buddy program for international students

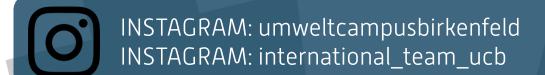








# SOCIAL MEDIA.



LINKEDIN: umwelt-campus-birkenfeld



XING: hochschuletrierumweltcampusbirkenfeld



YOUTUBE: UmweltCampus







www.umwelt-campus.de/en



**PRESS & MEDIA** presse@umwelt-campus.de

**SCHOOL COORDINATION** schule@umwelt-campus.de

## **AROUND STUDIES**

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**ALUMNI** alumni@umwelt-campus.de



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