REASONS TO STUDY AT PADERBORN UNIVERSITY

Waiting for the Webinar? Click here: http://www.upb.de/e-paper/intelligentlynetworked/
EVERYTHING UNDER ONE ROOF

Visit our website: http://www.uni-paderborn.de
LEARNING IN A MODERN ENVIRONMENT
EXCELLENT QUALITY AT LOW COST
A GOOD PLACE TO WORK

Meet the Region: www.facebook.com/inregio
A GOOD PLACE TO LIVE

Meet Paderborn: https://www.paderborn.de/
PERSONAL CONSULTATION AND SUPPORT

Visit our website: http://go.upb.de/international

Contact us: http://go.upb.de>ContactDegreeStudents

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Our University’s brochure: http://www.upb.de/e-paper/intelligentlynetworked/
## Our International Master Programs

<table>
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<th>Category</th>
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| **Computer and Technology** | Computer Science  
                            Computer Engineering  
                            Electrical Systems  
                            Engineering         |
| **Natural Sciences**      | Physics  
                            Optoelectronics & Photonics  
                            Materials Science  
                            Applied Neurosciences in Sports & Exercise |
| **Economics**             | International Economics and Management                                   |
| **Cultural Sciences**     | English and American Studies                                            |

Visit our English master: [http://go.upb.de/InternationalPrograms](http://go.upb.de/InternationalPrograms)
MASTER PROGRAMS IN ENGINEERING AND COMPUTER SCIENCE

M. SC. COMPUTER SCIENCE
M. SC. COMPUTER ENGINEERING
M. SC. ELECTRICAL SYSTEMS ENGINEERING

• **Duration:** 2 years (4 semesters)
• **Teaching Language:** 100% English
• **Course of instructions:** 100% English
• **Assessment:**
  ✓ Exercises
  ✓ Practical coursework
  ✓ Examinations
  ✓ Master’s thesis
**Career Opportunities Computer Science**

- ...timely and entertaining infotainment
- ...robots in production, service, entertainment, search & rescue
- ...breakthroughs in Science and Engineering
- ...networked and secure business
- ...modern and energy-efficient mobility
- ...progress in medicine
- ...novel forms of communication and interaction
- ...exploration of space
COMPUTER SCIENCE

Entry requirements:

Bachelor’s degree in computer science or related Subject.
Your final grade in this program should be 3.0 or better (according to the German marking system)

English language proficiency

Further information:
study-advice.cs@upb.de
WHAT IS COMPUTER ENGINEERING?

Construction, analysis and evaluation of computers and computer-controlled systems

- such systems consist of **hardware AND software**
- knowledge and skills from **Electrical Engineering AND Computer Science** required
- key discipline of information technology with great demand for graduates
CAREER OPPORTUNITIES COMPUTER ENGINEERING

- Development
- Research
- Production
- Management
- Training
- Marketing and Sales
- Consulting and Project Management
- Technical Monitoring
- Measurement and Test Engineering
Entry requirements:

Bachelor’s degree in computer engineering or related subject

English language proficiency

GRE Revised General Test

Further information:

study-advice.ce@upb.de
CAREER OPPORTUNITIES ESE

Control software for telescopes
Green energy
Motorcycles
Automation
Telecommunication
Rescue robots
Virtual Reality
Audio engineer
**Electrical Systems Engineering**

**Entry requirements:**

- Bachelor’s degree in electrical engineering or related Subject.
- Your final grade in this program should be 2.5 or better

**Further information:**

study-advice.ese@upb.de
English master programs in Natural Science

OVERVIEW

**Physics**
The international Master Program of Physics provides a general, thorough, research-oriented scientific education. Specialisation fields are theoretical and experimental physics with focus on materials science and/or optoelectronics.

**Optoelectronics and Photonics**
The Optoelectronics & Photonics Master combines selected course content from the scientific Physics Masters with current topics in Electrical Engineering. This interdisciplinary concept provides a targeted training of young academics for the field of optical technologies.

**Materials Science**
The Master program Materials Science combines the competences of materials physics, materials chemistry as well as process engineering in an interdisciplinary union. Profound knowledge is gained in order to process functional materials for new applications.
M. Sc. Optoelectronics & Photonics

Key Data:

- 2-year Masters program
- **Interdisciplinary** specialization in optoelectronics and photonics
- No tuition fees
- Application deadline: May 31 2017
- Start date: October 2017
M. Sc. Optoelectronics & Photonics

We offer:
- targeted training in optical technologies through interdisciplinary course program
- Master projects in internationally active research groups
- smooth progression towards PhD studies
- career perspectives in optics industry

Entry requirements:
- Bachelor’s degree in physics or engineering (incl. quantum theory)
- English language skills

Further information:
http://photonics.upb.de
info@photonics.upb.de
M. Sc. Materials Science

Interdisciplinary study-course: Chemistry, Physics and Engineering

Fundamental expertise in:

- Materials chemistry
- Materials physics
- Materials and process engineering

Promotion of material and product development in interdisciplinary teams of scientists, IT experts and engineers

Fundamental skills in:

- Material processing
- Physics
- Material synthesis
- Material analysis
- Material applications
- Chemistry
- Material modelling

Job perspectives:
- Automobile industry
- Energy sector
- Electronics industry
- Medical technology
- Universities
- Research institutes
M. Sc. Materials Science

Entry requirements:

Bachelor’s degree in Chemistry, Physics, Materials science

Under certain constraints:
B. Sc. in Mechanical/Electrical engineering, related disciplines

English language proficiency

Further information:
www.upb.de/materials
Target group

Are you interested in the specific and promising combination of neuroscience and sports & exercise?

Are you interested in applied research that transfers basic knowledge to therapy and performance enhancement?
Applied Neurosciences in Sports & Exercise (M.Sc.)

Prerequisites

You are holding a bachelor degree in the field of sports sciences, neurosciences, healthcare sciences or physical therapy.

You have proficiency of the English language at level B2.
Applied Neurosciences in Sports & Exercise (M.Sc.)

Basic information

- 2-year fulltime (120 ECTS)
- Teaching language English
- Program starts every Winter semester (Oct.)
  - No tuition fees
- Application Deadline May 31st
- Further information: www.upb.de/anse
Entry requirements:

Formal entry requirements

Content in **economics, management, math, statistics** + overall grade (see web-page for details)

**English** Language Proficiency
German Language proficiency for graduation (level A2) but not for admission

If less then 30 ECTS are missing, transitional enrollment possible
Focus „International Management“:
Middle and senior management positions in international companies; positions with strategic areas of responsibility

Focus „International Organization“:
E.g. positions at the IMF, OECD, World Bank, UN, national and international agencies, ministries, central banks, EU, ...

Focus „NGOs“:

Focus „Research“:
Positions in research institutes, national and international organizations, central banks, ...
APPLY!

Via Uni Assist
(for winter/summer term)

31 May 2017
(Start Oct. 2017)

30 Nov 2017
(Start Apr. 2018)

Computer Science
Computer Engineering

Via Uni Assist
(for winter term only)

31 May 2017
(Start Oct. 2017)

31 May 2017
(Start Oct. 2017)

Electrical Systems Engineering
Optoelectronics & Photonics
Materials Science
Applied Neurosciences in Sports & Exercise

At the International Office

15 Sep 2017
(Start Apr. 2018)

15 Mar 2018
(Start Oct. 2018)

International Economics and Management
Physics
English and American Studies

http://go.upb.de/application
PERSONAL CONSULTATION AND SUPPORT

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