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Master's degree

Transnational Ecosystem-Based Water Management (TWM)
University of Duisburg-Essen • Essen

Overview

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| More information on beginning of studies | Summer semester - April (Germany)  
Winter semester - September (The Netherlands) |
| Application deadline    | Non-EU applicants:  
  15 January for the following summer semester (at University of Duisburg-Essen)  
  1 March for the following winter semester (at Radboud University Nijmegen)  
EU applicants:  
  15 January for the following summer semester (at University of Duisburg-Essen)  
  1 May for the following winter semester (at Radboud University Nijmegen) |
| Tuition fees per semester in EUR | 1,050 |
| Additional information on tuition fees | Study fees are paid according to the valid legal regulations at the participating universities.  
The approximate costs for the full two-year study programme are:  
Students from EU countries: 4,200 EUR (NL) plus semester contribution (Germany)  
Students from non-EU countries: 11,000 EUR (NL) plus semester contribution (Germany) |
| Combined Master’s degree / PhD programme | No |
| Joint degree / double degree programme | Yes |

Description/content

The MSc in Transnational Ecosystem-based Water Management (TWM) is an integrated,
interdisciplinary Master’s degree programme in the sector of ecological water management, offered by the Radboud University Nijmegen and the University of Duisburg-Essen. It focuses on four main fields of study: aquatic ecology, hydraulic engineering, management and planning, and socio-economics.

Characteristics of the degree programme are:

- A strong link to water management practice, manifesting itself firstly in the recruitment of water management experts working for potential employers as instructors and secondly in a compulsory internship at a firm or organisation which is a potential employer
- An interdisciplinary approach both within and between universities and countries
- International scope: English will be the “lingua franca” of the degree programme, and all forms of instruction (except for a few non-compulsory courses) will be carried out in English
- In addition to conveying specialised knowledge, the programme will place special emphasis on the development of competence and soft skills in areas such as problem-oriented thinking, the ability to present oneself and one’s ideas, and acting in different cultural settings.

The MSc in TWM programme consists of nine modules. The six modules Basic Water Ecology, Applied Water Ecology, Water Engineering, Water Basin Management, Sustainability and Wetland Management, and Social Environmental Sciences cover the main fields of study. These are completed in the first year. The Optional Courses module offers a variety of subjects for deepening knowledge in related scientific fields, such as ecology, microbiology, engineering, or economics. The two remaining modules represent an internship/project work of about 10 weeks and the Master’s thesis.

### Course Details

**Course organisation**

**Phase One**
During the first and second semesters, students study the six compulsory modules Basic Water Ecology, Applied Water Ecology, Water Engineering, Social Environmental Sciences, Water Basin Management, Sustainability and Wetland Management. Students starting in the summer semester will be taught in their first semester at the University of Duisburg-Essen (Germany), whereas the second semester will take place at the Radboud University of Nijmegen (The Netherlands). Students starting in the winter semester will be taught in their first semester at the Radboud University of Nijmegen (The Netherlands), whereas the second semester will take place at the University of Duisburg-Essen (Germany).

**Phase Two**
This part of the programme is devoted particularly to project work and a required choice of elective courses during the third semester. The focus will be on practical water basin management, applying knowledge acquired in the first two semesters through an internship with potential employers.

**Phase Three**
The main focus of the fourth semester is the Master’s thesis. In most cases, students will start work on a topic related to the Master’s thesis during the internships in the third semester. As a general rule, the thesis will have an applied topic, such as planning of restoration measures, monitoring concepts, public relations campaigns, or analysis of watershed management data. In selected cases the focus of the Master’s thesis will be research-oriented and it will be carried out within an institute of the participating universities.

**Types of assessment**

- Written and oral examinations, oral presentations, written project report, determination exercises, exercises, essay

**A Diploma supplement will be issued**

Yes

**International elements**

- Integrated study abroad unit(s)
A minimum of one semester at the cooperating university at Nijmegen/The Netherlands is mandatory. During the third semester, students will do an internship, preferably at a university, institute or company outside The Netherlands or Germany. Students will graduate at the Radboud University Nijmegen (The Netherlands) and at the University of Duisburg-Essen.

In the third semester, the focus will be on practical water basin management, applying knowledge acquired in the first two semesters through a 12-week internship with potential employers. Programme advisers will assist students in finding an appropriate internship.

Study fees are paid according to the valid legal regulations at the participating universities. The approximate costs for the full two-year study programme are:
- Students from EU countries: 4,200 EUR (NL) plus semester contribution (Germany)
- Students from non-EU countries: 11,000 EUR (NL) plus semester contribution (Germany)

Semester contribution: 325 EUR per semester (including a semester ticket covering public transport in the North-Rhine-Westphalia area in Germany (NRW ticket))

Approx. 600 - 800 EUR per month to cover personal expenses, depending on costs of accommodation and living standard

Applicants’ suitability for the Master’s degree programme in TWM will be assessed by the respective examination committees of the participating universities in accordance with the examination regulations for the programme.
### Language requirements
Reasonable English language proficiency: TOEFL 550 points paper-based test (PBT), 215 points computer-based test (CBT), 80 points internet-based test (IBT); IELTS 6.5 or higher; Cambridge EFL examinations (CAE or CPE diploma, both with a minimum pass grade C)

### Application deadline
Non-EU applicants:
- 15 January for the following summer semester (at University of Duisburg-Essen)
- 1 March for the following winter semester (at Radboud University Nijmegen)

EU applicants:
- 15 January for the following summer semester (at University of Duisburg-Essen)
- 1 May for the following winter semester (at Radboud University Nijmegen)

### Submit application to
Universität Duisburg-Essen
Heike Todenhöfer / ZWU
Universitätsstr. 2
45117 Essen
Germany

### Services

#### Accommodation
Accommodation is available through the Student Services Office or on the private market. The TWM programme coordinators will assist you in finding a room if necessary. Rent for a single room in a student residence is approx. 320 EUR. Private accommodation can be found on the internet at: http://www.uni-due.de/twm

#### Specific specialist or non-specialist support for international students and doctoral candidates
- Welcome event

### Contact

**University of Duisburg-Essen**
Department of Biology

Heike Todenhöfer

Universitätsstr. 2
45141 Essen

Tel. +49 2011833523
heike.todenhoefer@uni-due.de
Course website: http://www.uni-due.de/twm

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DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
(responsible: Judith Lesch)
Kennedyallee 50
D-53175 Bonn
www.daad.de

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