



NICOLAUS COPERNICUS
UNIVERSITY
IN TORUŃ

Faculty of Biological
and Veterinary Sciences

Global Change Biology

(two-year Master's studies)

One field of study – two diplomas possibility!



1. Why is it worth studying **Global Change Biology** at NCU in Toruń, Poland?

2. What after graduation?

3. One field of study – **two diplomas!**

4. Study plan

5. Location and accommodation

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1. Why is it worth studying Global Change Biology at NCU in Toruń?

- **Changes in the natural environment are visible** on a global scale. There is an **urgent need to expand knowledge** about the ongoing changes' causes, mechanisms, and possible consequences.
- The **Global Change Biology study program enables you to acquire this knowledge**. Offers a **broad spectrum** of lectures, laboratory classes, and field activities covering all aspects of environmental change from a global perspective.
- The **Global Change Biology study** is an **interdisciplinary field**.
- The **staff's experience and high scientific level** are reflected in their membership in international scientific networks and a large number of publications in highly ranked scientific journals.





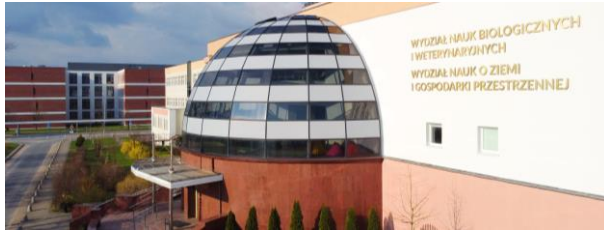
2. What after graduation?

Students obtaining a **Master's Degree in Global Change Biology** will have:

- extensive knowledge of **environmental management** and **forecasting ongoing changes**,
- skills to conduct **independent ecological analyses**,
- skills to be employed as consultants in **local administration units, private companies**, as well as in **national and international corporations**,
- opportunity to enter **PhD programs**.



3. One field of study – two diplomas!



UNESCO Chair on Environment,
Resources and Sustainable Development,
Parthenope University of Naples, Italy



- **Nicolaus Copernicus University in Toruń** is the **first university in Poland**, which offers the opportunity of a **double diploma** in **biological sciences**!
- Our official partner is the **Parthenope University of Naples in Italy**, which under the auspices of the **UNESCO Chair in “Environment, Resources and Sustainable Development”** enables to undertake a double diploma program.





3. One field of study – two diplomas!

The study program allows students to participate in one of **two educational paths**:



UNESCO Chair on Environment,
Resources and Sustainable Development,
Parthenope University of Naples, Italy



- 1) First, the **Master's Degree program in Global Change Biology at Nicolaus Copernicus University in Toruń, Poland**
- 2) Second, the **joint Master's Degree program in Global Change Biology** at the NCU in Toruń, Poland and in **Biology for Sustainability** at the **Parthenope University of Naples in Italy***

*The double diploma program involves **completing** the **third semester** of studies at an **Italian University** and **preparing a diploma thesis** under the supervision of a professor from NCU and a co-tutor from host PUN.

Only our **five best students** have the opportunity to study in Italy and to obtain a **double diploma in biological sciences!**



3. One field of study – two diplomas!



United Nations
Educational, Scientific and
Cultural Organization



UNESCO Chair on Environment,
Resources and Sustainable Development,
Parthenope University of Naples, Italy



Studies in Italy are supported by the **Erasmus+ program**, which is open to regular students from all countries.



Erasmus+

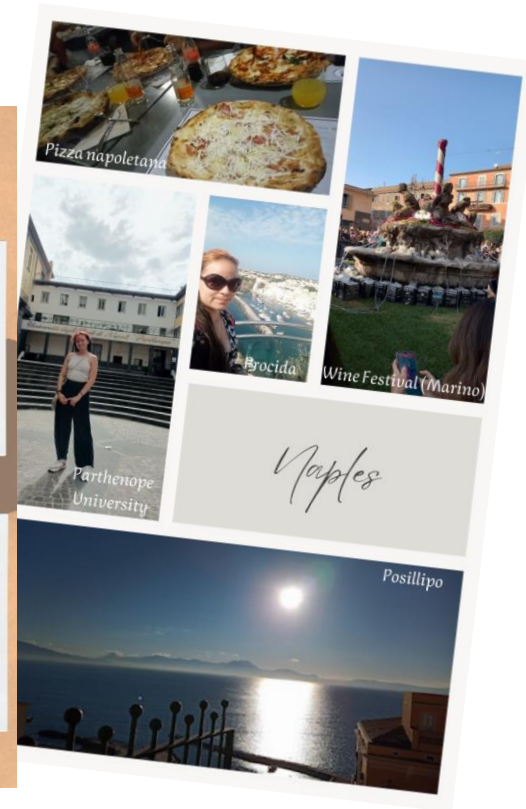
<http://www.umk.pl/en/erasmus/>

Semester in Italy – photo reports





Semester in Italy – photo reports





4. Study plan

The study program highlights all the fields of our scientists' expertise, including:

- **macroecology and biogeographic modeling,**
- **environmental data management and analysis,**
- **biotic invasions and respective ecological and evolutionary implications of interactions with native organisms,**
- **bio conservation and ecosystem assessment for administration purposes and landscape planning,**
- **evolutionary ecology and phylogeny, including the biogeographic reconstruction of colonization history,**
- **the physiology of stress in animals using behavioral and neurobiological methods.**



4. Study plan

- **4 semesters**
- **120 ECTS** credit necessary for completing a field of study
- **1 100** teaching **hours** in total



4. Study plan

First semester

Course name	ECTS credits	Teaching hours	
		L-Lecture, C-Classes	
		L	C
Animal and Plant Ecophysiology	5	15	30
Biostatistics	5	15	30
Multivariate analysis	5	15	30
Ecosystem Functioning	5	15	30
Ecology of Populations and Communities	5	15	30
Genetics and Evolution	5	15	30
Total (270 h)	30	90	180



4. Study plan

Second semester

Course name	ECTS credits	Teaching hours			
		L-Lecture, C-Classes, T-Talk, F-Field			
		L	C	T	F
European legal regulations in environmental protection	3	30			
Dynamic biogeography	9	30	30	30	
Advanced techniques in environmental data analysis	5	15	30		
Environmental impacts of genetically modified organisms	2	15			
Applied Ecophysiology	4	15	15		15
Thesis Lab	7		30	30	
Total (285 h)	30	105	105	60	15



4. Study plan

Third semester

Course name	ECTS credits	Teaching hours		
		L-Lecture, C-Classes, T-Talk		
		L	C	T
Socioeconomic aspects of global change	3	15		15
Applied ecosystem services	5	15	15	15
The future of land use	4	15		25
The last of the wild: European protected areas	4	15		25
Applied statistics and spatial analysis in GIS	3	15	15	
Case studies in global change	4	15	30	
Thesis Lab	7		25	30
Total (285 h)	30	90	85	110



4. Study plan

Third semester at PUN in Italy*

Course name	ECTS credits
Natural capital, ecosystem services and environmental accounting	9
Life cycle analysis and environmental certification	9
Subjects to choose from	6
Practice	6
Total	30

**The third semester at PUN in Italy applies to students pursuing a double diploma.*



4. Study plan

Fourth semester

Course name	ECTS credits	Teaching hours	
		C-Classes, T-Talk	
		C	T
Thesis of Specialization	30	130	130
Total (260 h)	30	130	130



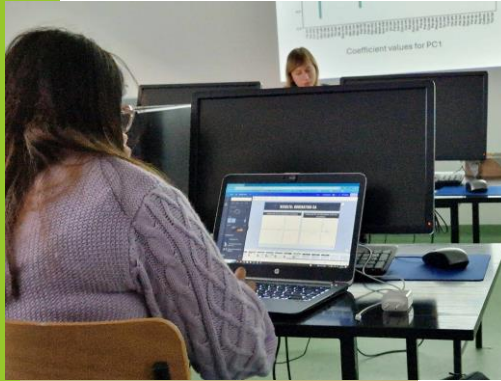
4. Study plan

For more details see also **Study programme** and **current class schedule**

→ <https://www.bio.umk.pl/student/global-change-biology/>



Photo reports from some classes





5. Location and accommodation

Virtual tour of our Faculty!



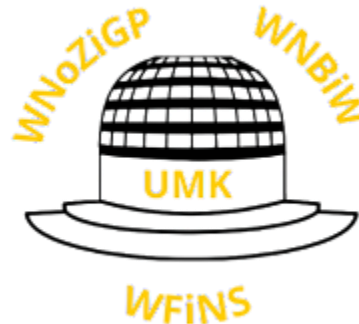


5. Location and accommodation

Faculty building navigator - phone app!

- If you are determined to study **Global Change Biology**, we invite you to download the Building Navigator phone application!

Nawigator Lwowska 1





5. Location and accommodation

Accommodation

Foreign students usually occupy rooms in the student house:

- no. 9 (DS. 9) on Bielany campus, ul. Gagarina 21, 87-100 Toruń, tel. +48 56 611 43 62,
- no. 10 (DS. 10) ul. Gagarina 27, 87-100 Toruń, tel. +48 56 611 45 78,
- no. 11 (DS. 11) ul. Gagarina 33, tel. +48 56 611 44 79.

There are studios consisting of 2 rooms (which could be single or double) with a shared toilet, a shower and a kitchenette.

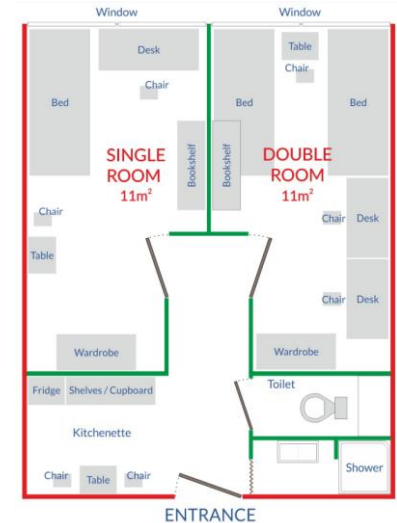


Photo report from Toruń



at the Nicolaus Copernicus monument



tasting of Polish cuisine specialties



tour of the old town during the Christmas period



Toruń ice rink



6. Additional information

Possibility of obtaining external scholarships

Banach NAWA Scholarship Programme



POLISH NATIONAL AGENCY
FOR ACADEMIC EXCHANGE

<https://nawa.gov.pl/en/students/foreign-students/the-banach-scholarship-programme>



6. Additional information

For more details, see/watch also

- Study at NCU - the Nicolaus Copernicus University in Toruń (NCU)

<https://youtu.be/UY3FBoRcEzM>

- Guide for first-year students

https://www.biol.umk.pl/panel/wp-content/uploads/2023_samouczek-dla-studentow-eng.pdf

- Essentials for the international students

https://www.biol.umk.pl/panel/wp-content/uploads/NIEZBEDNIK-STUDENTA-Z-ZAGRANICY.-Essentials-for-the-international-student..pdf#new_tab

- Admissions

<https://www.umk.pl/en/admissions/>



Or for more details you can also contact us

studywithncu@umk.pl



Scientific career opportunities

Doctoral education in biological sciences

1) Academia Copernicana Interdisciplinary Doctoral School

<https://www.ac.umk.pl/>

2) Doctoral School of Exact and Natural Sciences

<https://www.phd.umk.pl/en/ast/>



7. The most important information

- **two-year Master's studies – 4 semesters**
- whole studies in **English**
- low tuition fee: **5 500 PLN per semester**

- **interdisciplinary** field of study
- **classes with** experienced and **highly qualified scientists**
- for the best students **two diplomas in biological sciences**
- broad international employment opportunities



7. The most important information

Registration system

<https://irk.umk.pl/en-gb/offer/RC2023ja/>



More photo reports from the course of studies
and other interesting facts can be found on our social media!

Follow us!

Global Change Biology

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See you in Toruń!