NICOLAUS COPERNICUS UNIVERSITY IN TORUŃ
Faculty of Biological and Veterinary Sciences

Global change biology – master's thesis topics - the academic year of 2025/2026

No.	Thesis promoter	Thesis topics	The nature of the thesis
1.	prof. dr hab. Katarzyna Hrynkiewicz	Soil salinity as a shaping force of microbiological communities – a case study	practical
2.	prof. dr hab. Katarzyna Hrynkiewicz	The invisible allies of the farmer – the microbiome of saline cultivated soils	practical
3.	prof. dr hab. Katarzyna Hrynkiewicz	Microbiological indicators of the resilience of agricultural ecosystems to salt stress	practical
4.	prof. dr hab. Katarzyna Hrynkiewicz	Functional diversity of microbiomes in saline soils	practical
5.	prof. dr hab. Katarzyna Hrynkiewicz	Assessment of the regenerative capacity of saline soils under conditions supported by halophytes and mycorrhizal fungi	practical
6.	prof. dr hab. Tomasz Kakareko	Effects of inorganic pollution on the behavior of aquatic organisms	practical
7.	prof. dr hab. Elżbieta Żbikowska	Digenea invasions in snails in the face of global warming	Practical work
8.	dr hab. Agnieszka Piernik, prof. UMK	Variability of vegetation functional traits of coastal salt marshes in Poland	Praktyczna (data collection and management, field work as supplementary)
9.	dr hab. Agnieszka Piernik, prof. UMK	Variability of vegetation functional traits of inland salt marshes in Poland	practical
10.	dr hab. Agnieszka Piernik, prof. UMK	Assessment of natural capital and ecosystem services of selected protected area	Praktyczna (data collection and mangement, field work as supplementary)
11.	dr hab. Agnieszka Piernik, prof. UMK	Plant functional traits adaptations to the salinity stress)	practical
12.	dr hab. Agnieszka Piernik, prof. UMK	Crop plants adaptations to salt stress	practical
13.	dr hab. Małgorzata Poznańska-Kakareko, prof. UMK	Impact of global warming on the survival and migration of invasive and native Unionidae bivalves	Practical work
14.	dr hab. Małgorzata Poznańska-Kakareko, prof. UMK	Comparison of shell decomposition rates of the invasive mussels Corbicula spp., Dreissena polymorpha and the native Unionidae bivalves	Practical work
15.	dr hab. Małgorzata Poznańska-Kakareko, prof. UMK	The effect of water temperature on the filtration rate of invasive Corbicula spp., Sinanodonta woodiana, and selected native Unionidae species	Practical work
16.	dr hab. Małgorzata Poznańska-Kakareko, prof. UMK	Impact of invasive Corbicula spp. and Sinanodonta woodiana on the density of native juvenile Unionidae. Field research.	Practical work
17.	dr hab. Marcin Woch, prof. UMK	Roślinność wysychajacego cieku/zbiornika wodnego. Vegetation of a drying stream/reservoir.	practical
18.	dr hab. Marcin Woch, prof. UMK	Diversity of vascular plant communities in a selected natural area (e.g. village, town, commune, post-industrial wasteland, Prussian forts, ruins, cemeteries, ruins, heaps, pits and other wastelands.)	practical

19.	dr hab. Marcin Woch, prof. UMK	The share of poisonous, medicinal and hallucinogenic plants in the flora of a selected area.	practical
20.	dr hab. Marcin Woch, prof. UMK	Vegetation succession on disused railway tracks.	practical
21.	dr Magdalena Czarnecka (pula dr hab. J.Żbikowski, prof.UMK)	Predator-prey interactions under light pollution in aquatic environment.	practical