

Faculty of Natural Sciences

University of SS. Cyril and Methodius in Trnava

Course Catalogue for International Students

Erasmus+ and SAIA exchange programmes

Academic year 2025/2026

About this catalogue

This catalogue lists courses offered in English at the Faculty of Natural Sciences, University of SS. Cyril and Methodius in Trnava (FPV UCM), for incoming international students under the Erasmus+ and SAIA exchange programmes during the academic year 2025/2026. Courses are grouped by subject area and listed alphabetically within each section.

Total of 51 courses across five subject areas. ECTS credits are indicated for each course; semester is marked as Winter (September–January) or Spring (February–June). For courses without listed ECTS or with unconfirmed scheduling, please contact the responsible teacher or the Erasmus coordinator.

Quick overview

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Biology, Biotechnology & Biochemistry

Course Name	Semester	ECTS	Teacher	Prereq.
Evolutionary Biology	Winter	2	prof. RNDr. Juraj Krajčovič, CSc.	—
Genetics	Winter	2	prof. RNDr. Juraj Krajčovič, CSc.	—
Human molecular biology and genetics	Spring	4	Mgr. Dominika Vešelényiová, PhD.	—
Introduction to Biophysics	Spring	3	prof. Mgr. Alžbeta Marček Chorvátová, DrSc.	—
Introduction to Biotechnology	Winter	3	prof. RNDr. Ján Kraic, PhD.	—
Laboratory exercises in advanced biology	Winter	5	doc. RNDr. Michaela Havrlentová, PhD., RNDr. Šarlota Kaňuková, PhD.	—
Laboratory Exercises in Biology	Winter	4	Mgr. Richard Hančinský, PhD.	—
Laboratory exercises in biology	Spring	5	RNDr. Šarlota Kaňuková, PhD.	—
Laboratory Exercises in Molecular Biology	Spring	4	RNDr. Zuzana Gerši, PhD.	—
Laboratory Exercises in Molecular Biology	Winter	5	RNDr. Zuzana Gerši, PhD.	—
Physical anthropology	Spring	4	Mgr. Dominika Vešelényiová, PhD.	—
Plant Physiology	Spring	3	Ľubica Uváčková	—
Special Virology	Spring	4	Miroslav Glasa	—

Chemistry

Course Name	Semester	ECTS	Teacher	Prereq.
Analytical chemistry	Spring	6	doc. Ing. Jozef Sokol, CSc.	—
Chemical bonding and chemical structure	Spring	5	prof. RNDr. Ján Titiš, PhD.	—

Course Name	Semester	ECTS	Teacher	Prereq.
Laboratory exercises from biochemistry	Winter	5	RNDr. Šarlota Kaňuková, PhD.	✓
Laboratory Exercises in Analytical Chemistry	Winter	4	doc. Ing. Andrea Purdešová	—
Laboratory Exercises in General Chemistry	Winter	—	doc. RNDr. Cyril Rajnák, PhD. et PhD.	—
Laboratory Exercises in Inorganic Chemistry	Spring	—	doc. RNDr. Cyril Rajnák, PhD. et PhD.	—
Laboratory exercises from separation methods	Spring	5	doc. RNDr. Daniela Ondrejovič Chmelová, PhD.	—
Modern Method of Synthesis	Spring	—	doc. RNDr. Cyril Rajnák, PhD. et PhD.	—
Separation Methods	Winter	3	Mgr. Peter Nemeček, PhD.	—
Spectral methods in Organic chemistry	Winter	4	Doc. RNDr. Zita Tokárová, PhD.	—

Informatics & Computer Science

Course Name	Semester	ECTS	Teacher	Prereq.
applied mathematics (for MSc computer science students)	Winter	6	doc. RNDr. Iveta Dirgová Luptáková, PhD., univerzitná profesorka	—
Computer modeling of molecules	Winter	4	prof. RNDr. Ján Titiš, PhD.	—
Database system (for computer science students)	Spring	4	Ing. Darja Gabriška, PhD., univerzitná docentka	—
Digital forensics analysis (for computer science students)	Spring	5	PaedDr. Miroslav Őlvecký, PhD.	—
DTP systems (for computer science students)	Winter	5	Ing. Miroslav Beňo, PhD.	—
Electrotechnics (for computer science students)	Spring	3	RNDr. Martin Kubovčik	—
Electrotechnics (for computer science students)	Winter	3	RNDr. Martin Kubovčik	—

Course Name	Semester	ECTS	Teacher	Prereq.
Information security (for computer science students)	Spring	4	doc. RNDr. PaedDr. Ladislav Huraj, PhD., univerzitný profesor	—
Integration of services (for computer science students)	Spring	3	Ing. Marek Šimon, PhD., univerzitný docent	—
Internet technologies (for computer science students)	Winter	6	PaedDr. Miroslav Őlvecký, PhD.	—
Mathematical foundations of computer science	Winter	6	doc. RNDr. Iveta Dirgová Luptáková, PhD., univerzitná profesorka	—
Modelling and simulation in Matlab (for computer science students)	Spring	5	Ing. Katarína Pribilová, PhD.	—
Modelling of complex systems and multi-agent simulations (for computer science students)	Spring	5	prof. RNDr. Jiří Pospíchal, DrSc.	—
Modern Programming Languages (for computer science students)	Winter	4	doc. Ing. Michal Čerňanský, PhD.	—
Multimedia Systems (for computer science students)	Winter	5	Mgr. Marián Hostovecký, PhD.	—
Operating Systems (for computer science students)	Winter	3	Mgr. Marián Hostovecký, PhD.	—
Parallel and Distributed Computing (for MSc computer science students)	Spring	5	doc. Ing. Michal Čerňanský, PhD.	—
Theory and Development of Computer Games (for computer science students)	Winter	5	doc. Ing. Jana Jurinová, PhD.	—
Virtual and mixed reality systems (not just for computer science students)	Spring	5	Mgr. Marián Hostovecký, PhD.	—

Environmental Sciences & Ecology

Course Name	Semester	ECTS	Teacher	Prereq.
Ecology	Spring	4	Mgr. Richard Hančinský, PhD.	—
Effects of stress factors on biota	TBC*	3	doc. Mgr. Ildikó Matušíková, PhD.	—

Course Name	Semester	ECTS	Teacher	Prereq.
Environmental Toxicology	Spring	3	Doc. RNDr. Miroslav Horník, PhD.	—
Global environmental problems	Winter	4	Mgr. Martin Valica, PhD.	—
Renewable energy sources	Spring	3	Mgr. Martin Valica, PhD.	—

Other / Cross-disciplinary

Course Name	Semester	ECTS	Teacher	Prereq.
Bachelor project	Spring	4	doc. RNDr. Michaela Havrlentová, PhD.	—
Fundamentals of nutrition and dietology	Spring	3	Ing. Eva Üргеová, PhD.	—
Natural drugs	Winter	3	doc. Mgr. Renata Gašparová, PhD.	—
Sports activities	Winter / Spring	1	Ing. Eva Üргеová, PhD.	—

Course-specific prerequisites

Laboratory exercises from biochemistry — knowledge of basic calculations in the laboratory (mass, concentration, etc.), working with excel (working with formulas, evaluating xy charts, etc.), knowledge of calibration curve preparation and its meaning is required

Notes

- ECTS values are guidelines; the final number of credits awarded depends on the Learning Agreement signed with the home institution.
- Some courses are primarily designed for computer science students; non-CS students may join after consultation with the teacher.
- Courses marked with TBC* in the semester column have not been scheduled at the time of catalogue publication; please verify availability before applying.
- Some laboratory courses do not have ECTS confirmed at this time — please contact the responsible teacher.

Contact

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