

Degree Programme in Biomedical Laboratory Science, Medisiina D, Kiinamylynkatu 10, Turku

Please note these courses are only for Biomedical Laboratory Science exchange students

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- **Spring semester dates: 3 January – 31 May 2025.**

International Semester 2025	Spring	Autumn	
	ECTS	ECTS	Course nr
PROFESSIONAL BASICS PRACTICE IN CLASSROOM SETTINGS, PRACTICE COURSES (TH00BN81) Please choose the labs you attend:	ECTS	ECTS	
Experience path: <ul style="list-style-type: none"> • get familiar with Turku and fellow students • blog /article; international student exchange • Introduction to Biomedical Laboratory Scientist's profession in Hospital Laboratory (if possible) 	2	2	TH00BN80
Clinical bioChemistry; automated analyzers	3	3	TH00BN80
Clinical Hematology (eLearning + part of the studies mentored by fellow students)	2	2	TH00BN80
Clinical Immunohematology spring: studies with the class fall: studies mentored with by fellow students	1	1	TH00BN80
Blood sampling and Point-of-Care-Testing	1-2	1-2	TH00BN80
Clinical Pathology	-	2	TH00BN80
Clinical Microbiology	2	-	TH00BN80
Clinical Physiology (studies mentored by fellow students)	-	1	TH00BN80
Common courses for all Turku UAS exchange students			
Finnish for exchange students Beginners' course for Finnish language. Available for all exchange students.	3	3	1000474
Multicultural and International Competence	5	5	1000393

PRACTICE COURSES, PROFESSIONAL BASICS PRACTICE IN CLASSROOM SETTINGS

Students learn by working in learning laboratories following quality standards and safety laboratory practices.

Experience path (spring and fall) 2 ECTS

Students get familiar with Turku and fellow students in Biomedical laboratory science through active assignments.

Part of this course students will write a blog or an article about their international exchange experience. In this course we will also try to arrange a visit at the Turku University Hospital Laboratories (Biomedical Laboratory Scientist's profession in Hospital Laboratory).

Clinical biochemistry; automated analyzers (spring and fall) 3 ECTS

Students rehearse using automated analysers in clinical biochemistry and know how to apply their skills in the assessment of biochemical examination results, the errors dependent on the specimen and the reliable function of the analysers. Students know how to work according to the quality manual and the instructions in place. Students can identify the phases of pre-analytics, analytics and post-analytics in clinical biochemistry work.

Clinical hematology (spring and fall) 2 ECTS (eLearning + part of the studies mentored by fellow students)

Students can independently prepare a technically high-quality blood film and know mature, healthy blood cells. Students know how to work with microscopes independently. Students also get to know the immature blood cells and can assess the alterations which are seen in the blood count in connection with blood diseases. Students can identify findings in an aberrant blood film.

Clinical immunohematology (spring and fall) 1 ECTS

Students know how to use the equipment for blood transfusion serology examinations and can under supervision carry out basic examinations in blood transfusion serology. Students know how to independently get results for blood type determination analyses.

Fall: studies mentored by fellow students.

Blood Sampling and Point-of-Care-Testing (spring and fall) 1-2 ECTS

Student can independently carry out the specimen collection for different clinical specimens taking into account the requirements of pre-analytics and occupational safety. Student is able to answer for the safety and well-being of the client during the specimen collection. Student knows how to guide clients and take into

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account in their guidance the impact of pre-analytical factors on the results of the laboratory examinations. Student knows how to serve clients from other cultures. Student knows how to apply the principles of good service in customer work and in the collaboration with other professional groups.

Clinical Pathology (fall) 2 ECTS

Students know the handling process of a histological specimen in the laboratory. Students master the tissue embedding technique, the tissue sectioning and the use of a microtome. Students are familiarised with immunohistochemical staining, they can identify the tissue components and know how to carry out histological and cytological staining and make a cytocentrifuge prepareate. Students can tell apart benign cell changes from normal findings.

Clinical microbiology (spring) 2ECTS

Clinical microbiology II (Spring semester 2 ECTS): Students know how to obtain a high-quality specimen from the larynx, rehearse the use of microbe cultivation and identification methods and train their skills in interpreting the results.

Clinical Physiology (fall) 1 ECTS

ECG registration. Studies mentored by fellow students.

Finnish for exchange students 3 ECTS

Beginner's course in Finnish language.

Multicultural and International Competence 5 ECTS

This course will increase the students' awareness of the increasingly diverse higher education; provide the students with abilities to operate in international work communities; and to boost the sense of belonging of students and their attachment to the multicultural higher education community.