



APPLIED BIOLOGY

1. Mission of the study program

The mission of the master's program in *Applied Biology* consists of training highly qualified specialists and carrying out scientific research and continuing education in the field of applied biology.

2. Objectives of the study program

- a) to develop the knowledge for an integrative interdisciplinary perspective in order to train competent specialists to solve problems in the field of applied biology.
- b) to acquire the knowledge and skills to use modern methods and techniques in biology laboratories.
- c) to develop scientific research capacities and cognitive skills for experimental modeling, data analysis and interpretation.
- d) to provide the skills needed to collect, analyze and interpret data from various alternative sources, namely from real professional contexts and from the literature in the field, for formulating arguments, decisions and specific actions.

3. Study program premises and deliverables

The Master's degree program in Applied Biology has been operating since 2010 and was accredited in 2011, as shown in ARACIS Council decision no. 4780/5.05.201. The Master's degree program in Applied Biology is a professional master in the field of Biology, being mainly oriented towards the development of skills and abilities necessary in biology laboratories. It continues the Bachelor's degree program in Biology, offering graduates of the first cycle of university studies the opportunity to complete their studies with the second cycle, in the same field. The skills developed by graduates of the master's degree program in Applied Biology qualify them for the following occupations, according to the diploma supplement and registration in RNCIS: Expert biologist 213102; Specialist biologist inspector 213103; Research assistant in biology 213137.

4. Teaching activities

Courses	258 hours
Seminars	62 hours
Laboratories	384 hours
Project	52 hours

5. Students' evaluation

Number of evaluations/year of study				
Evaluation type	Anul 1	Anul 2	TOTAL	%
Exams	8	8	16	80
Colloquia	1	3	4	20
Other forms	-	-	-	-

6. How to apply (admission conditions). Conditions for enrolment in the following year. Conditions for passing the years of study.

The selection methods for the admission competition are based exclusively on the candidate's academic skills. For admission to the master's program in Applied Biology, an oral exam is taken,

marked as passed/failed, and the classification of candidates admitted to the oral exam is made entirely based on the grade obtained in the bachelor's exam. The admission regulations present the admission criteria as well as those for tie situations of candidates with the same grade in the bachelor's exam.

Enrollment in the following year is conditional on fulfillment of the promotion conditions contained in the Regulations on the professional activity of students.

7. Equality of chances

The recruitment, admission, transfer and mobility of students to the Applied Biology program are carried out transparently in accordance with the national legislation and the procedures approved by the ULBS Senate. Admission is based exclusively on the candidate's academic competences and does not apply any discriminatory criteria.

8. Program sustainability

From the perspective of ecological sustainability, the Applied Biology study program promotes an efficient use of resources through the following measures: configuring study groups to minimize energy consumption related to the teaching activities while ensuring efficient professional training; encouraging the use of electronic format for homework, reports or projects; using support materials in electronic format to replace biological materials (plant or animal species). In addition, the waste resulting from applied activities is managed according to the regulations in force and the waste collection system adopted by ULBS.

The need for specialists in the field of biology has increased in recent decades as new challenges arise globally and new cutting-edge fields are developed. Graduates of master programs in the field of Biology can occupy jobs in fields such as education, biomedical, molecular biology, water resources management, biodiversity management, agriculture, aquaculture, research, etc.

Professional training through the Applied Biology master's program thus responds to the needs of the society by making social and economic development sustainable.

9. Making training flexible. Conditions.

The flexibility of the study program is ensured by optional and facultative subjects. There are 19 optional courses grouped in 6 packages, two for each of the semesters 2, 3 and 4. In addition, four facultative courses can be taken, two in each of the semesters 2 and 3. The structure of the optional packages allow the student to choose between laboratory and field training, according to their further professional interest.

10. Methodology for assessing competences at graduation

The conditions for taking the graduation exam are presented in the Methodology for the Completion of Studies, approved by the University Senate. According to this methodology, taking the graduation exam is conditional on passing all the subjects provided in the curriculum.

FINAL EXAM

- 1. Period for preparing the master's thesis/dissertation: semesters 3-4;*
- 2. Period for registering for the graduation exam - during June.*
- 3. Period for taking the bachelor's thesis/dissertation exam: week 40 of the second year*
- 4. Number of credits for taking the dissertation exam: 10 credits*

11. Preparing for a competitive position in education

To get a teaching position (secondary school, high school or higher education in the bachelor's degree field) through competition, the graduate must possess the Certificate of Graduation from a study program for psycho-pedagogical training (which allows the exercise of the teaching profession) coordinated by the Department for the Preparation of Teachers at ULBS (or at another university).

The psycho-pedagogical training to obtain the Certificate of Graduation is done by the completion of two modules:

(1) Module I (30 credits) - which is carried out additionally, in parallel with the bachelor's degree studies or in a postgraduate regime, at the end of which a Graduation Certificate (module I) is obtained.

(2) Module II (30 credits) - to be taken after the Bachelor's degree, in parallel with the Master's degree or postgraduate studies. It is finalized with a Certificate of Completion (in-depth level).