



UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2025/26
BACHELOR
BIOLOGICAL SCIENCES (Classe L-13 R)
Enrolled in the 2025/2026 academic year

HEADING

Degree classification - Denomination and code:	L-13 R
Degree title:	Dottore
Length of course:	3 years
Total number of credits required to complete programme:	180
Years of course currently available:	1st
Access procedures:	Cap on student, student selection based on entrance test
Course code:	FAI

PERSONS/ROLES

Head of Study Programme

Prof.ssa Isabella Dalle Donne

Degree Course Coordinator

Prof.ssa Isabella Dalle Donne (E-mail: isabella.dalledonne@unimi.it)

Tutors - Faculty

Tutor per l'orientamento: M. Valenza, N. Manfrini, F. Marini

Tutor per la mobilità internazionale e programmi Erasmus: C. Bonza

Tutor per i piani di studio: I. Dalle Donne, F. Lazzaro

Tutor per stage e tirocini: I. Dalle Donne

Tutor per laboratori e altre attività: S. Masiero

Tutor per trasferimenti: I. Dalle Donne

Tutor per ammissioni Corsi di Studio magistrali: Coordinatori dei Corsi di Studio magistrali (Prof. Alessandro Aliverti BIONUTRI, Prof.ssa Sara Epis BIOEVO, Prof.ssa Graziella Cappelletti BARB, Prof. Luca Gianfranceschi PS, Prof. Paolo Pesaresi MBC)

Tutor per riconoscimento crediti: I. Dalle Donne

Degree Course website

<http://scienzebiologiche.cdl.unimi.it>

Via Celoria, 26 (piano terra, torre C). Solo su appuntamento. <https://informastudenti.unimi.it/>

New student information center

Via Celoria, 26 (piano terra, torre C). Solo su appuntamento. <https://informastudenti.unimi.it/>

Representative for disability services and specific learning disabilities (appointed by the Academic Board):

Prof.ssa Diletta Dolfini Email: diletta.dolfini@unimi.it

Student registrar

Via Celoria, 18 Phone 0250325032 <https://www.unimi.it/it/node/360> <https://www.unimi.it/it/node/359/> Sportello online
InformaStudenti: <https://informastudenti.unimi.it/>

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

The educational and cultural objectives of the BSc in Biological Sciences are to provide a sound basic knowledge of biology both in its fundamental theoretical aspects and in the methodological and technological aspects inherent to the relevant fields of scientific investigation, offering an adequate preparation to assimilate scientific and technological advances and to know and interact properly with living organisms.

The BSc in Biological Sciences is built in accordance with the guidelines agreed and approved at national level by the CBUI (College of Biologists of Italian Universities) and is therefore one of the 'certified quality' study programs, both for employment and for further studies, as it guarantees the entry requirements for all the degree courses (MSc) in the LM-6

Biology class offered in Italy.

The BSc in Biological Sciences provides a solid preparation in basic mathematical, physical, statistical, computer, chemical and biological disciplines, supplemented by numerous characterising educational activities in the biological field that ensure multidisciplinary competences at the molecular, cellular and organismal level, also considering ecological and evolutionary aspects.

The specific educational objectives of the degree are to train graduates with an adequate interdisciplinary scientific background in the biological sciences, able to understand and interpret the main biological phenomena thanks to basic knowledge of mathematics, statistics, computer science, physics and chemistry; with a thorough theoretical knowledge of animal - including human - and plant biology and microbiology, addressing the study of living organisms at all levels of organisation and examining molecular, cellular, functional and environmental aspects; of the mechanisms of animal and plant reproduction and development; of the nature, transmission, expression and modification of hereditary material of the fundamental aspects of ecology, with regard to the presence and role of organisms and the interactions between the various components of ecosystems and the flows of matter and energy in the ecosphere; with a basic knowledge of the methodologies and technologies inherent to the relevant fields of biological investigation; with operational and applicative skills and abilities in the biological field, with particular reference to basic laboratory activities and the monitoring and control of biological, health and environmental parameters; with knowledge of the experimental scientific method and the ability to process and analyse experimental data; with skills for the communication and management of scientific information.

Expected learning outcomes

Graduates in Biological Sciences will acquire operational and applicative skills and abilities in the biological field and will be able to carry out technical-operational tasks and professional support activities.

In particular, graduates in Biological Sciences will acquire:

- an adequate basic knowledge of the different sectors of the biological sciences;
- multidisciplinary methodological and technological knowledge for biological investigation;
- operational and applicative skills and abilities in the biological field, with particular reference to broad-spectrum biological and instrumental technical analysis procedures, aimed at both research activities and monitoring and control;
- ability to effectively use, in written and oral form, the English language in the specific area of competence and for the exchange of general information;
- adequate skills and tools for communication and information management;
- ability to work in groups, to operate with defined degrees of autonomy and to fit into the workplace;
- basic cognitive tools for the continuous updating of one's knowledge.

Professional profile and employment opportunities

The Biological Sciences degree programme prepares graduates for the profession of biologist and related professions.

Graduates in Biological Sciences will be able to carry out technical-operational and professional support activities in the field of biology of animal and plant organisms and microorganisms (morphological/functional, chemical/biochemical, physiological, cellular/molecular, evolutionary, ecological/environmental aspects; mechanisms related to reproduction, development and heredity; relationships between living organisms; environmental and anthropic factors influencing their survival).

The graduate in Biological Sciences, in his function as biologist, has competences in animal and plant cell biology and biology of micro-organisms; in animal and plant systematics; in evolution; in ecology; in biological chemistry, molecular biology, genetics; in analytical techniques in the fields of genetics, histology, cytology, immunology, microbiology in man and animals; in analytical techniques in the fields of biochemistry and molecular biology; in analytical methodologies in the fields of ecology, biodiversity and its evolution and conservation, also in relation to the evaluation of the impact of the biological impact; in analytical techniques for quality control; in statistical and biostatistical analysis methods.

According to Presidential Decree 328/01, Biological Sciences graduates will be able to take the state examination for qualification as junior biologists and, if passed, obtain registration in the National Order of Biologists (section B). In order to achieve greater levels of responsibility, Biological Sciences graduates will be able to acquire further knowledge through access to Master's degree courses, activated both by the University of Milan and by other universities.

Employment opportunities:

- public and private laboratories for analysis, quality control, environmental protection, biotechnology in the biomedical, agri-food, zootechnical and floricultural fields
- freelancers or employees in working environments, such as the pharmaceutical, biochemical and food industries, requiring knowledge in the various fields of biology;
- institutions responsible for the protection of the environment and biodiversity, such as parks, museums, botanical gardens, biological, biochemical and environmental monitoring bodies;
- in the field of communication, dissemination and scientific information, scientific publishing in the field of biology.

Initial knowledge required

Admission requirements and knowledge

Admission to the degree course in Biological Sciences is open to candidates in possession of a secondary school diploma or another qualification obtained abroad and recognised as suitable.

The knowledge required for admission is basic mathematics, physics, chemistry and science, as provided by secondary schools and will be verified by means of an entrance test, which is compulsory and selective. The knowledge required in relation to the preparation needed to take the entrance test is clearly stated on the website: <http://www.cisiaonline.it/area->

tematica-tolc-biologia/struttura-della-prova-e-syllabus.

Methods for verifying knowledge and personal preparation

For the academic year 2025/2026, the degree course in Biological Sciences is based on programmed access, in order to guarantee the quality of the teaching offer in relation to the available resources, and envisages the possibility of taking the TOLC-B (Test On Line CISIA [Consorzio Interuniversitario Sistemi Integrati per l'Accesso]) as an admission test, either remotely (TOLC@CASA mode) or in person (TOLC at the university), to be taken at all available TOLC centres, provided that they are carried out within the deadlines for each session, indicated in the admission notice. For first-year enrolment, 250 places are available. Applications for the TOLC must be made on the CISIA website (www.cisiaonline.it). The TOLC-B consists of the following sections: basic mathematics (20 questions - 50 minutes), biology (10 questions - 20 minutes), physics (10 questions - 20 minutes), chemistry (10 questions - 20 minutes). Each question has 5 possible answers, of which only one is correct. Score: +1 for each correct answer, -0.25 for each wrong answer, 0 for each answer not given. There is an additional English section in the TOLC, consisting of 30 questions to be completed in 15 minutes, the outcome of which does not count towards the test score.

The criterion on which the admission rankings will be based will be determined by the results of the test. The students who, having taken the TOLC-B test, will be enrolled in the selection for admission to the CdS in Biological Sciences will be placed in the merit list, formulated on the basis of the score in the test. Having been informed of the results, students who have been placed in the merit list will have to finalise their enrolment within the deadlines set out in the call for applications. For further details on the announcements, deadlines and admission procedures in the ranking list, please consult the page <https://www.unimi.it/it/studiare/attend-a-course-of-graduation/enrol/enrol-a-first-graduation>

Compulsory attendance

Attendance is strongly recommended for all courses and compulsory for laboratories.

Internship criteria

Students can undertake internships on campus in university laboratories (internal internships), and earn a total of 6 CFU. Internship opportunities are available in the first and second semester of Year III. Admission requirements and application deadlines can be found on the internship page of the Ariel website "Tirocinio interno presso laboratori universitari (stage interno)".

Degree programme final exams

Upcoming graduates must:

- have earned 177 CFU, including 3 CFU for English language proficiency;
- have written a final paper. By writing and defending the final paper, the student may earn an additional 3 credits.

The final exam consists of discussing the final paper on the internship before an examining board. The latter's assessment will count towards the degree mark (on a scale of 110). More details on the web page: <https://scienzebiologiche.cdl.unimi.it/it/studiare/laurearsi>

The programme awards the title of "Laureato di I livello (Dottore) in Scienze Biologiche" (Bachelor's graduate in Biological Sciences).

Campus

Classrooms and laboratories are located in the University buildings in: Via Celoria, 26 (Biology buildings); Via Celoria, 20 (Teaching Sector); Via Golgi, 19 (Teaching Sector); Via Venezian, 15 (Teaching Sector), Centro Universitario dell'Università degli Studi di Milano (exCidis) (via Valvassori Peroni 21).

The Academic Services Office is located in the Department of Biosciences, Via Celoria, 26 – Milano (Tower C, ground Floor).

Laboratories

The CdS is characterized by an intense laboratory activity. The laboratory courses, in particular, must normally be attended in the year of competence, with the exception of transfer students (from other courses of study or from other locations). During the practical lessons the necessary safety rules and correct behavior in the laboratory are provided.

Notes

Students who are supposed to earn 3 credits (CFU) for basic computer skills, as provided by their degree programme, have to attend the "Computer Science Course" through the e-learning platform of the project called "3CFU Informatica" accessible at the following link: <https://3cfuinformatica.unimi.it>.

It is a blended course with a compulsory final exam.

The first exam session is scheduled for January, and more will follow according to a calendar to be made available on the course delivery platform.

The "Computer Science Course 3CFU" course is managed by the CTU - Teaching and Learning Innovation and Multimedia Technology Centre.

In order to obtain their degree, students must be proficient in English at a B1 level under the Common European Framework of Reference for Languages (CEFR). This proficiency level may be certified as follows:

- By submitting a language certificate attesting B1 or higher level in English and issued no more than three years before the date of submission. You will find the list of language certificates recognized by the University at: (<https://www.unimi.it/en/node/39322>). The certificate must be uploaded during the enrolment procedure, or subsequently to the portal <http://studente.unimi.it/uploadCertificazioniLingue>;

- By taking a placement test offered by the University Language Centre (SLAM) between October and December of the first year. Students who fail the test will be required to take a SLAM course.

The placement test is mandatory for all those who do not hold a valid certificate attesting to B1 or higher level.

Those who have not taken the placement test by the end of December or fail the end-of-course exam six times must obtain the necessary certification privately before graduating.

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment.

The agreements entered into by the University with over 300 universities from the 27 EU member countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organisations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

The University of Milan is a member of the 4EU+ European University Alliance that brings together eight public multidisciplinary universities: University of Milan, Charles University of Prague, Heidelberg University, Paris-Panthéon-Assas University, Sorbonne University of Paris, University of Copenhagen, University of Geneva, and University of Warsaw. The 4EU+ Alliance offers integrated educational pathways and programmes to promote the international mobility of students (physical, blended and virtual).

Study and internships abroad

Students of Scienze Biologiche are given the opportunity to spend part of their curriculum abroad, at a University within the European Union (EU) in the frame of the Erasmus+ program of the European Commission. Students can attend courses and take exams that can be included in the core curriculum and/or perform laboratory stage (6 CFU of the free choice CFU) in several European Universities localized in Denmark, Netherland, Norway, France, Germany, Spain and Portugal (see <https://dbs.unimi.it/it/rapporti-internazionali/mobilita-internazionale>).

The admitted student will present a study plan including all the activities he/she intends to perform abroad, detailing the corresponding CFU: the number of proposed CFU should roughly correspond to those the student would achieve in the same time lapse remaining in his/her university. The study plan proposed by the student within the Erasmus+ program should be coherent with the Scienze Biologiche course and must be evaluated and approved by the Teaching Board. The Teaching Board, if necessary, will require the student to integrate the program of exams taken abroad. At the end of the Erasmus + program, according to the rules established by the Academic Senate, the approved exams will be recorded, possibly with the original denomination, as part of the student's curriculum upon conversion of the European Credit Transfer and Accumulation System (ECTS) into CFU. The contact person for the Biological Sciences area is prof.ssa Cristina Bonza (cristina.bonza@unimi.it).

How to participate in Erasmus mobility programs

The students of the University of Milan can participate in mobility programmes, through a public selection procedure.

Ad hoc commissions will evaluate:

- Academic career
- the candidate's proposed study programme abroad
- his/her foreign language proficiency
- the reasons behind his/her application

Call for applications and informative meetings

The public selection for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organises informative meetings to illustrate mobility opportunities and rules for participation.

Erasmus+ scholarship

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be supplemented by the University funding for disadvantaged students.

Language courses

Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University Language Centre (SLAM).

<https://www.unimi.it/en/node/8/>

Learn more at <https://www.unimi.it/en/node/274/>

For assistance, please contact:
 International Mobility Office
 Via Santa Sofia 9 (second floor)
 Tel. 02 503 13501-12589-13495-13502
 Contacts: InformaStudenti;
 Student Desk booking through InformaStudenti

1st COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
CALCULUS AND COMPUTER LABORATORY	9	(3) MAT/01, (3) INF/01, (3) MAT/07
CYTOLOGY AND HISTOLOGY	9	BIO/06
ENGLISH ASSESSMENT B1	3	ND
GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	6	(5) CHIM/03, (1) CHIM/02
ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	9	(2) CHIM/03, (7) CHIM/06
PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	12	(1) SECS-S/02, (6) FIS/07, (3) FIS/06, (2) MAT/06
PLANT BIOLOGY AND SYSTEMATICS	9	(2) BIO/02, (7) BIO/01
	Total compulsory credits	57
2nd COURSE YEAR (available as of academic year 2026/27) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
ANIMAL BIOLOGY AND SYSTEMATICS	9	BIO/05
BIOCHEMISTRY	9	BIO/10
BIOLOGICAL EVOLUTION AND HISTORY OF BIOLOGY	6	M-STO/05
COMPARATIVE ANATOMY	6	BIO/06
PLANT PHYSIOLOGY	9	BIO/04
	Total compulsory credits	39
Elective courses		
The student must choose one of the following courses		
MOLECULAR BIOLOGY AND BIOINFORMATICS	12	BIO/11
MOLECULAR BIOLOGY AND BIOINFORMATICS	12	BIO/11
The student must choose one of the following courses		
GENETICS	9	BIO/18
GENETICS	9	BIO/18
3rd COURSE YEAR (available as of academic year 2027/28) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
DEVELOPMENTAL BIOLOGY	6	(3) BIO/06, (3) BIO/01
ECOLOGY	9	BIO/07
ELEMENTS OF HUMAN ANATOMY, PHARMACOLOGY AND IMMUNOLOGY	9	(3) MED/04, (3) BIO/16, (3) BIO/14
GENERAL MICROBIOLOGY	9	BIO/19
GENERAL PHYSIOLOGY AND ANIMAL PHYSIOLOGY	9	BIO/09
INTERNSHIP IN UNIVERSITY LABS	6	ND
	Total compulsory credits	48
Elective courses		
The student must acquire 12 CFU by selecting any of the courses offered by the University of Milan, provided that they are coherent with their educational plan.		
6 out of the 12 free choice CFU can be spent on internship activities of proven quality.		
The Biology Academic Board will offer these courses:		
CLINICAL BIOCHEMISTRY	6	BIO/12
INNOVATIVE METHODS IN PLANT BIOLOGY	6	BIO/01
INVESTIGATION METHODOLOGIES IN ANIMAL CELL BIOLOGY AND HISTOLOGY	6	(2) BIO/06, (2) BIO/17, (2) BIO/16
METHODS IN APPLIED ECOLOGY	6	BIO/07
METHODS IN EXPERIMENTAL EMBRYOLOGY	6	BIO/06
METHODS IN GENETICS AND HUMAN GENOMICS	6	BIO/18
METHODS IN MOLECULAR BIOLOGY	6	BIO/11
METHODS IN PHARMACOLOGY AND TOXICOLOGY	6	BIO/14
PLANT GENOMICS APPROACHES TO ADAPT PLANTS TO A CHANGING CLIMATE AND ENVIRONMENT	6	BIO/18

End of course requirements		
FINAL EXAM		3 ND
	Total compulsory credits	3

COURSE PROGRESSION REQUIREMENTS

The course contains the following obligatory or advised prerequisites

Learning activity	Prescribed foundation courses	O/S
ECOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
ANIMAL BIOLOGY AND SYSTEMATICS	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
DEVELOPMENTAL BIOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
COMPARATIVE ANATOMY	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
GENETICS	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
GENETICS	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
BIOCHEMISTRY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
INTERNSHIP IN UNIVERSITY LABS	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
INNOVATIVE METHODS IN PLANT BIOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory

METHODS IN PHARMACOLOGY AND TOXICOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
INVESTIGATION METHODOLOGIES IN ANIMAL CELL BIOLOGY AND HISTOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
METHODS IN GENETICS AND HUMAN GENOMICS	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
GENERAL PHYSIOLOGY AND ANIMAL PHYSIOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
METHODS IN EXPERIMENTAL EMBRYOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
METHODS IN APPLIED ECOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
METHODS IN MOLECULARBIOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
PLANT GENOMICS APPROACHES TO ADAPT PLANTS TO A CHANGING CLIMATE AND ENVIRONMENT	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory

	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
CLINICAL BIOCHEMISTRY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
BIOLOGICAL EVOLUTION AND HISTORY OF BIOLOGY	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
ELEMENTS OF HUMAN ANATOMY, PHARMACOLOGY AND IMMUNOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
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	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
GENERAL MICROBIOLOGY	ORGANIC CHEMISTRY AND CHEMISTRY LABORATORY	Core/compulsory
	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	PHYSICS, PHYSICS LAB, LAB OF MATHEMATICAL AND STATISTICAL METHODOLOGIES	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
	PLANT BIOLOGY AND SYSTEMATICS	Core/compulsory
	ENGLISH ASSESSMENT B1	Core/compulsory
PLANT PHYSIOLOGY	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
MOLECULAR BIOLOGY AND BIOINFORMATICS	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory
MOLECULAR BIOLOGY AND BIOINFORMATICS	GENERAL CHEMISTRY WITH ELEMENTS OF PHYSICAL CHEMISTRY	Core/compulsory
	CALCULUS AND COMPUTER LABORATORY	Core/compulsory
	CYTOLOGY AND HISTOLOGY	Core/compulsory