SLOVENSKO
OGRODJE
KVALIFIKACIJ

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Magister bioinformatike/magistrica bioinformatike

Selected qualifications

Name of qualification	Magister bioinformatike/magistrica bioinformatike
Translated title (no legal status)	Master of Bioinformatics
Type of qualification	Diploma druge stopnje
Category of qualification	Izobrazba
Type of education	Master's education
Duration	2 years
Credits	120 credits

Admission requirements

• A first-cycle (Bologna) study programme in relevant professional fields: bioinformatics, computer science, nursing care, medicine, natural sciences, pharmacy, engineering and biotechnology, or
• a first-cycle (Bologna) study programme in other professional fields (social sciences, humanities, social work), if before enrolment in the study programme the student has completed study requirements essential for the continuation of studies totalling 18 ECTS credits in subjects from the fields of healthcare (Healthcare ethics, Legal aspects, Organisation and management, Sociology, Physiology), computer science (Basics of computer science, Basics of ICT) or natural sciences (Basics of biochemistry, Basics of biophysics, Basics of chemistry) or
• a professional higher education programme adopted before 11 June 2004 in relevant professional fields: bioinformatics, computer science, nursing care, medicine, natural sciences, pharmacy, engineering and biotechnology, or
• a professional higher education programme adopted before 11 June 2004 in other professional fields (social sciences, humanities, social work), if before enrolment in the study programme the student has completed study requirements essential for the continuation of studies totalling 18 ECTS credits in subjects from the fields of healthcare (Healthcare ethics, Legal aspects, Organisation and management, Sociology, Physiology), computer science (Basics of computer science, Basics of ICT) or natural sciences (Basics of biochemistry, Basics of biophysics, Basics of chemistry).

ISCED field

Field
Zdravstvo in socialna varnost

ISCED subfield

subfield interdisciplinarne izobraževalne aktivosti/zidi, pretežno zdravstvo in socialna varnost

Qualification level

SQF 8
EQF 7
Second level

Learning outcomes

The qualification holder will be able to:

- correctly apply basic knowledge in the field of scientific methods and laboratory techniques,
- demonstrate advanced skills in the application of the methods of molecular and cellular biology and biophysics to research and resolve complex biomedical problems and systems,
- demonstrate knowledge of the methods of genomics and proteomics and their application,
- demonstrate knowledge of the methodologies and paradigms of information technology for the storage, analysis, synthesis and visualisation of genomic and proteomic data,
- design healthcare information systems in general and, more specifically, bioinformatics systems,
- incorporate organisational knowledge in support of successful business decisions,

- apply scientific research methods to research in the field of bioinformatics,
- study modern theories that define the nature of knowledge in the theoretical and practical fields of bioinformatics and discuss their relevance and application in clinical practice,
- describe the principles and application of research in bioinformatics and critically assess research literature with regard to an individual aspect of the field of bioinformatics,
- study principles and methods in order to improve quality and consider the application of these principles,
- study the ethical dimension of human behaviours and consider the application of moral theories in the theoretical and practical fields of bioinformatics.

Assessment and completion

Examination performance is scored as follows: 10 (excellent); 9 (very good: above-average knowledge but with some mistakes); 8 (very good: solid results); 7 (good); 6 (adequate: knowledge satisfies minimum criteria); 5–1 (inadequate). In order to pass an examination, the candidate must achieve a grade between adequate (6) and excellent (10).

Progression

Students may enrol in a higher year if by the end of the academic year they have met all requirements defined by the study programme for enrolment in a higher year.

Transitions

Third-cycle doctoral study programmes (SQF level 10)

Condition for obtaining certificate

To complete their studies, students must meet all requirements defined by the study programme.

Awarding body

University of Maribor, Faculty of Health Sciences

URL

http://www.fzv.um.si/en/postgraduate-2nd-degree-study-programme-bioinformatics