

Diplomirani matematik (un)/diplomirana matematičarka (un)

Selected qualifications

Name of qualification	Diplomirani matematik (un)/diplomirana matematičarka (un)
Translated title (no legal status)	Bachelor of Science in mathematics
Type of qualification	Diploma prve stopnje (UN)
Category of qualification	Izobrazba
Type of education	Academic bachelor's education
Duration	3 years
Credits	180 credits
Admission requirements	<ul style="list-style-type: none">• Matura or• school-leaving examination (prior to 1 June 1995) under any four-year secondary school programme.

ISCED field

Field
Naravoslovje, matematika in statistika

ISCED subfield

subfield matematika

Qualification level

SQF 7
EQF 6
First level

Learning outcomes

The qualification holder will be able to:

(general competences)

- think analytically and demonstrate understanding of complex systems that enable participation in various interdisciplinary teams,
- demonstrate familiarity with basic fields of mathematics and apply knowledge to other fields,
- critically assess developments in the field of mathematics,
- resolve technical and work problems by searching for sources of knowledge and applying scientific methods,
- develop communication skills,
- demonstrate autonomy in professional work,
- show cooperativeness and work in a team,

(subject-specific competences)

- demonstrate understanding of and solve basic mathematical problems at a qualitative and quantitative level,
- describe a given situation through the correct use of mathematical symbols and notations,
- explain their understanding of mathematical concepts and principles,
- solve mathematical (and other) problems through the application of modern technology,
- apply an algorithmic approach: develop an algorithm to resolve a given problem,
- analyse a given problem numerically, graphically and algebraically,
- deduce new logical conclusions from given data,
- confidently address a given mathematical problem and find a solution,
- apply the approaches of scientific thinking to the quantitative treatment of problems in nature, the environment and society,
- demonstrate knowledge and understanding of the influence of mathematics on the development of other sciences.

Assessment and completion

Students' knowledge is assessed by means of practical exercises and seminar papers, and also via products, projects, performances, services, etc. and by examinations. 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, a candidate must achieve a grade between adequate (6) and excellent (10).

Progression

In order to progress to the second year, students must have completed at least 47 credits and all lab class requirements. They must have passed examinations in the following subjects: Vectors and Matrices, Mathematical Principles, Elementary Functions, Basics of Computer Science and Information Science, Analysis I and Linear Algebra.

In order to progress to the third year, students must have completed all first-year course units and completed at least 40 second-year credits. The subjects completed must include: Analysis II, Analysis III and Discrete Mathematics I.

Transitions

Second-cycle master's study programmes (SQF level 8)

Condition for obtaining certificate

Students must complete all requirements defined by the study programme in order to complete their studies.

Awarding body

University of Maribor, Faculty of Natural Sciences and Mathematics

URL

<http://fnm.um.si/index.php?lang=en>
