

MASTER'S PROGRAM | BIOINFORMATICS

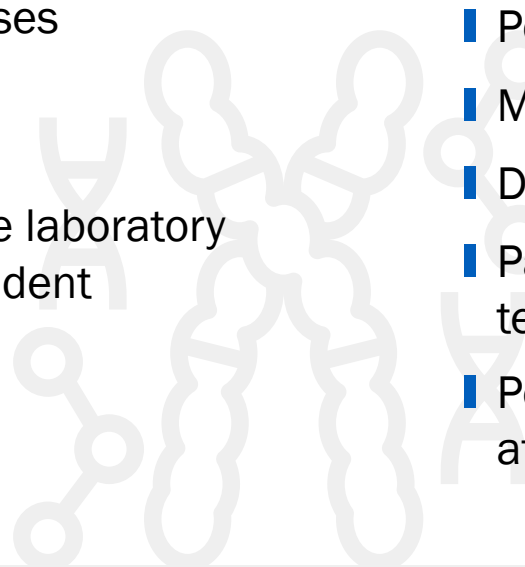


1ST SEMESTER

- Foreign language
- History, philosophy and methodology of science
- Introduction to Molecular Biology and Genetics
- Machine learning
- General scientific disciplines (at the choice of the student)
- Theory of Probability and Mathematical Statistics
- Numerical and optimization methods
- Protein Physics and Structural Bioinformatics
- Programming Languages (workshop)
- Structures and databases
- Oncogenomics
- Molecular modeling
- Perform research in the laboratory at the choice of the student

2ND SEMESTER

- Foreign language
- History, philosophy and methodology of science
- Basic Biostatistics
- Microbiology and metagenomics
- Algorithms of bioinformatics
- Data Visualization (Workshop)
- NGS Data Analysis
- Transcriptome, epigenomics and analysis of OMIKS data
- Analysis of OMIKS data (workshop)
- Professional disciplines (at the choice of the student)
- Population genetics
- Medical genomics
- Deep learning
- Parallel programming technology
- Perform research in the laboratory at the choice of the student



3RD SEMESTER

- Perform research in the laboratory at the choice of the student

4TH SEMESTER

- Undergraduate practice

