

What will you learn in the MBI?

Computing

- Python programming
- Development and use of SQL databases
- Linux operating system
- Use of large IT equipments
- New algorithms for bioinformatics data management
- Parallel programming

Biology

- Genetics
- Biochemistry
- Evolution

Mathematics

- Biostatistics
- Programming with R

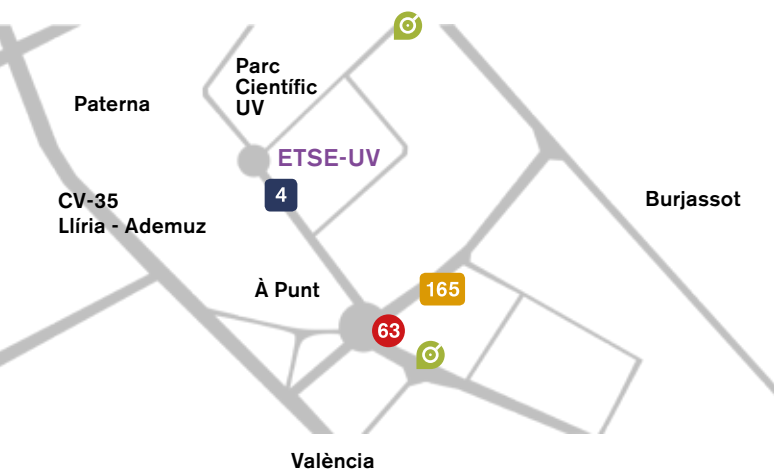
Bioinformatics

- Evolutionary bioinformatics
- Omics data management
- Structural bioinformatics
- Web and bioinformatics data repositories
- Applied in silico studies in biomedicine (personalised medicine)
- Computational systems biology

Who is it addressed to?

Students who hold technology or biology degrees, for example:

- Degree in Biotechnology
- Degree in Biology
- Degree in Medicine
- Degree in Pharmacy
- Degree in Biochemistry
- Degree in Computer Science
- Degree in Multimedia Engineering
- Degree in Maths



Metrovalencia. Line 4 (TVV stop)

EMT. Line 63 (Xàtiva – Noves Facultats)

Metrobus. Line 165 (Quart de Poblet – Manises – Paterna – Burjassot)

Valenbisi Mibisi Bike lane (València – Burjassot)

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Campus de Burjassot - Paterna

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ETSE-UV

Master's Degree in Bioinformatics

Bioinformatics appears because of the need of analysing great amounts of complex medical and biological data.

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This data analysis needs using and developing specialised tools in sectors such as agriculture, stockbreeding, food and especially health.

Accept the challenge.



www.uv.es/bioinfor

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Academic Programme

First semester (bridging courses):

Computers and Operating Systems 6 ECTS

Programming 9 ECTS

Data Structures and Databases 9 ECTS

Medicine and Clinical Testing 6 ECTS

Evolution 6 ECTS

Biochemistry and Molecular Biology 9 ECTS

Genetics 9 ECTS

Second semester

Basics of Bioinformatics and Genomics 6 ECTS

Algorithms in Bioinformatics 3 ECTS

Statistical Bioinformatics 6 ECTS

Omics Techniques for Massive Data Collection 6 ECTS

Developmental Bioinformatics 6 ECTS

Structural Bioinformatics 3 ECTS

Third semester

Computational Systems Biology 6 ECTS

In Silico Studies in Biomedicine 6 ECTS

Programming and Advanced Computational Techniques in Bioinformatics 3 ECTS

Applications and Trends in Bioinformatics 3 ECTS

Master's final project (TFM) 12 ECTS

Master's Degree in Bioinformatics

2 years (90 ECTS)

Three semesters

26 places

MBI

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Studying the MBI at ETSE-UV

- High level of knowledge in Bioinformatics
- Experienced university staff in teaching, research and transference
- El 30% of external teaching staff
- Educational and extracurricular internships in companies and research laboratories
- Contact with the main national researchers in Bioinformatics
- Maximum of 26 students
- Seminars taught by top professionals in the sector

Career opportunities

- National and international research centres
- Biotechnology companies
- Hospitals

Connection with doctoral studies

The Master's Degree in Bioinformatics is related to three doctoral programmes of the UV:

- Doctoral Programme in Information Technologies, Communications and Computing
- Doctoral Programme in Biomedicine and Biotechnology
- Doctoral Programme in Medicine

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