

MSc Information Session

**(A) What is expected during the next 2 semesters and
(B) possible focus areas**

Lecturer: Bockmayr, Reinert, Günzel, Banerjee, Piro
Orga: Seyferth, Conrad

MSc Bioinformatics – second & third semester

Semester					
1 (30 credits)	Algorithms (6 credits)	Genomics (6 credits)	Numerics (6 credits)	Optimization (6 credits)	Statistics (6 credits)
2 (30 credits)	Core Module 1 (10 credits)	Core Module 2 (10 credits)	Practical Module 1 (5 credits)	Practical Module 2 (5 credits)	
3 (30 credits)	Research Internship (10 credits)	Research Module A/B (20 credits)			
4 (30 credits)	Master's Thesis with Oral Presentation (30 credits)				

- 2 Core Modules (10 + 10 credits)
- 2 Practical Modules (5 + 5 credits)
- Research Internship (10 credits)
- Research Module (20 credits)

MSc Bioinformatics

2nd & 3rd semester

Semester					
1 (30 credits)	Algorithms (6 credits)	Genomics (6 credits)	Numerics (6 credits)	Optimization (6 credits)	Statistics (6 credits)
2 (30 credits)	Core Module 1 (10 credits)	Core Module 2 (10 credits)	Practical Module 1 (5 credits)	Practical Module 2 (5 credits)	
3 (30 credits)	Research Internship (10 credits)	Research Module A/B (20 credits)			
4 (30 credits)	Master's Thesis with Oral Presentation (30 credits)				

Core Modules (6 SWS*, 10 cr) – you need two of these

- Biodiversity and Evolution
- Network Analysis
- Physiology
- Sequence Analysis
- Structural Bioinformatics

Please note: Core modules are offered only in summer semester!

*SWS = hours a week

MSc Bioinformatics 2nd & 3rd semester

Semester					
1 (30 credits)	Algorithms (6 credits)	Genomics (6 credits)	Numerics (6 credits)	Optimization (6 credits)	Statistics (6 credits)
2 (30 credits)	Core Module 1 (10 credits)	Core Module 2 (10 credits)	Practical Module 1 (5 credits)	Practical Module 2 (5 credits)	
3 (30 credits)	Research Internship (10 credits)	Research Module A/B (20 credits)			
4 (30 credits)	Master's Thesis with Oral Presentation (30 credits)				

Practical Modules (4 SWS, 5 cr) – you need two of these

- Applied Sequence Analysis **SoSe 19**
- Current Issues in Medical Genomics **SoSe 19**
- Applied Machine Learning **SoSe 19**
- Current Issues in Cell Physiology **SoSe 19 + WiSe 19/20**
- Computer-Aided Drug Design **WiSe 19/20**
- Environmental Metagenomics **WiSe 19/20**
- Current Issues in Structural Bioinformatics **WiSe 19/20**

MSc Bioinformatics

2nd & 3rd semester

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2 (30 credits)	Core Module 1 (10 credits)	Core Module 2 (10 credits)	Practical Module 1 (5 credits)	Practical Module 2 (5 credits)	
3 (30 credits)	Research Internship (10 credits)	Research Module A/B (20 credits)			
4 (30 credits)	Master's Thesis with Oral Presentation (30 credits)				

Research Modules: you need one of these

- **Research Module A** (two lectures with exercises, one seminar, project paper, 20 credits)
- **Research Module B** (one lecture with exercise, two seminars, project paper, 20 credits)

Research modules consist of **research-oriented courses**, which students can choose from the course catalogue of the current semester. All courses offered match both, research module A and research module B.

Overview Courses (Research Module) SoSe 19

Seminars (5 cr):

- Compact Data Structures
- Computer-aided Drug Design – Methods and Application
- Introduction to Computational Proteomics
- Computational Meta-Omics
- Methods for Genome Analysis
- Reaction Diffusion Simulation

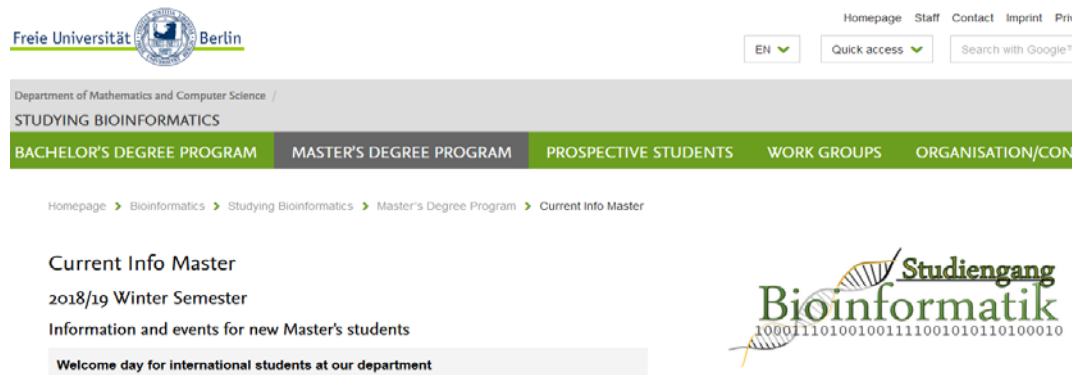
Lectures with exercises (5 cr):


- Advanced Biometrical Methods
- Statistical Methods for Small Sample Sizes

- Methods for Investigating the RNA structure and RNA-RNA interactome
(V+Ü+S, 10 cr) – Registration closed

Further information

Homepage: <http://www.mi.fu-berlin.de/en/bioinf/stud/master/index.html>



Freie Universität  Berlin


Department of Mathematics and Computer Science /
STUDYING BIOINFORMATICS

BACHELOR'S DEGREE PROGRAM MASTER'S DEGREE PROGRAM PROSPECTIVE STUDENTS WORK GROUPS ORGANISATION/CON

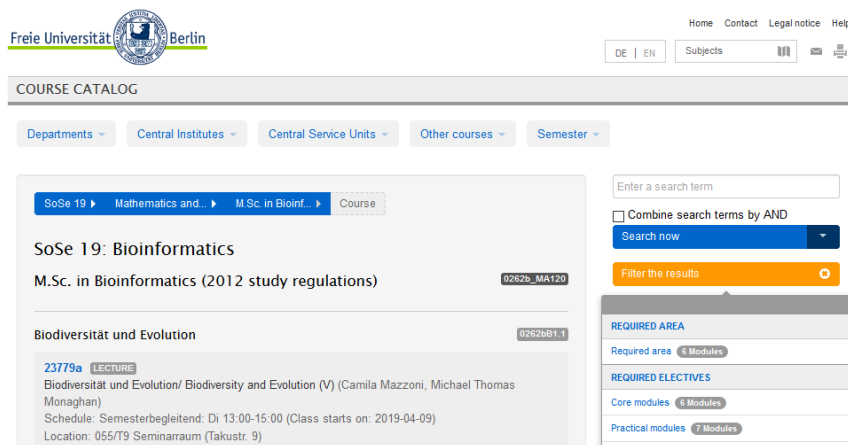
Homepage > Bioinformatics > Studying Bioinformatics > Master's Degree Program > Current Info Master


Current Info Master
2018/19 Winter Semester
Information and events for new Master's students

Welcome day for international students at our department

 Studiengang
Bioinformatik
100011101001001111001010110100010

Course catalog: <https://www.fu-berlin.de/vv/en/>



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COURSE CATALOG

Departments - Central Institutes - Central Service Units - Other courses - Semester -

SoSe 19 ▶ Mathematics and... ▶ M.Sc. in Bioinf... ▶ Course

SoSe 19: Bioinformatics
M.Sc. in Bioinformatics (2012 study regulations) 0262b_MA120

Biodiversität und Evolution 0262bB1.1

23779a LECTURE
Biodiversität und Evolution/ Biodiversity and Evolution (V) (Camila Mazzoni, Michael Thomas Monaghan)
Schedule: Semesterbegleitend; Di 13:00-15:00 (Class starts on: 2019-04-09)
Location: 055/T9 Seminarraum (Takustr. 9)

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