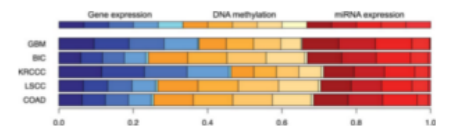
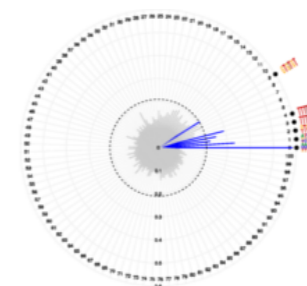
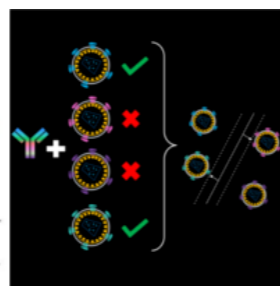
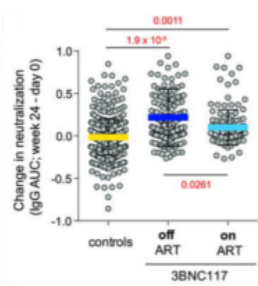


# Welcome first semester students in the Medical Informatics master program-summer term 2024





Slides available at:

[pfeiferalab.org](http://pfeiferalab.org)

-> teaching



# Welcome!



Department of Computer Science, Tübingen University



- General information about:

<http://www.informatik.uni-tuebingen.de/>

- the curricula
- the department
- the research groups



# Fachschaft & mailing list

- Fachschaft:
  - Representation of students
  - <http://www.fsi.uni-tuebingen.de/en>
  - Helpful information & support
- Mailing list of Fachschaft: **info-studium**
  - <https://www.fsi.uni-tuebingen.de/en/maillinglisten/>
    - you have to subscribe, if you want to join
    - relevant information is distributed through this list e.g., information from the examination boards
- Only possibility to reach students ⇒ Please subscribe!



# Organizing your studies

- Medical Informatics Master webpage:

<https://uni-tuebingen.de/en/fakultaeten/mathematisch-naturwissenschaftliche-fakultaet/fachbereiche/informatik/studium/studiengaenge/medizininformatik/master/>

- Example study plans:

<https://uni-tuebingen.de/fakultaeten/mathematisch-naturwissenschaftliche-fakultaet/fachbereiche/informatik/studium/downloads/studienplaene/#c1077201>



Medizininformatik

[Course Plan Recommendation M.Sc. Medical Informatics](#)

[Studienplan B.Sc. Medizininformatik](#)





# Alma, Ilias, Moodle, ...

- Lectures in Alma:
  - <https://alma.uni-tuebingen.de>
  - Contains all courses by the university
  - is not perfect yet
  - contains links to teaching websites of individual groups as well as course pages at *Ilias* and *Moodle*
- Ilias (most widely used):
  - <https://ovidius.uni-tuebingen.de>
- Moodle (also used by some lecturers):
  - <https://moodle.zdv.uni-tuebingen.de>



# Registration for the courses

In general you need to register twice for a course:

- First time to get access to the course material (Ilias or Moodle) and general information
- Second time to register for the exams preferably through Alma, but if this is not possible then through the examination office (Ms. Mischorr)
  - Remember to do this early enough (ideally 2 weeks before the exam or earlier)





# Responsibilities

- Examination office MSc Medical Informatics
  - Ms. Mischorr, Keplerstraße 2, Raum 203  
72074 Tübingen  
[pruefungsamt.bioinformatik@uni-tuebingen.de](mailto:pruefungsamt.bioinformatik@uni-tuebingen.de)  
[pruefungsamt.medizininformatik@uni-tuebingen.de](mailto:pruefungsamt.medizininformatik@uni-tuebingen.de)
- Prüfungsausschuss MSc Medical Informatics
  - Head: Prof. Nico Pfeifer
- Questions about the curriculum
  - Prof. Nico Pfeifer, Sand 14, C405  
- [✉ mm-sekretariat@inf.uni-tuebingen.de](mailto:mm-sekretariat@inf.uni-tuebingen.de)



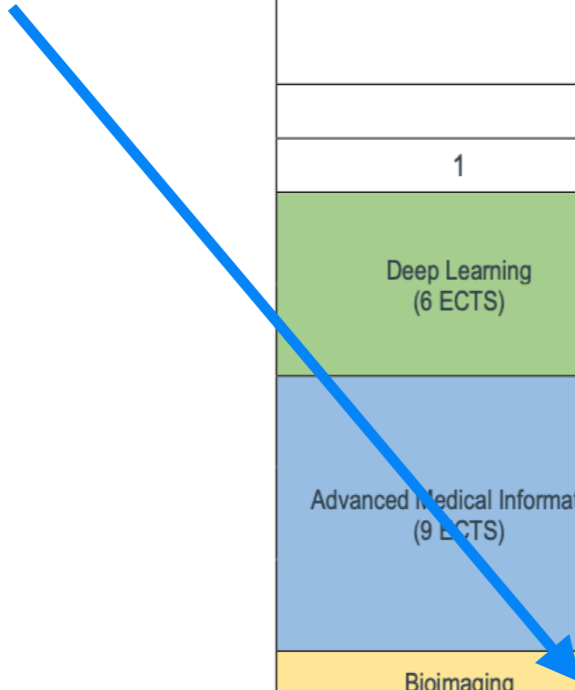
# Master Medical Informatics

- According to PO 2021
- 120 ECTS
- expected duration: 4 semesters
- (max. duration: 7 semesters)
- Lectures in medical informatics, informatics, and medical technology
- Master thesis
  - 30 ECTS, 6 months
  - Topic provided and examined by two professors: at least one professor from the department of computer science of Tübingen University



Module Overview Profile A		
Module / Study Area:		ECTS
MEDZ-RES	Research Project	9
MEDZ-BIOMED	Biomedical Informatics	24
MEDZ-MEDTECH	Medicine-Medical Technology	18
INFO-INFO	Computer Science	18
MEDZ-SEM	Seminar	3
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
MASTER	Master's Thesis and Presentation	30
Total ECTS:		120

Course Plan Example Profile A				
Semester				
1	2	3	4	
Deep Learning (6 ECTS)	Selected Topics in Medical Informatics (9 ECTS)	Machine Learning for Health (3 ECTS)	Master Thesis (27 ECTS)	
Advanced Medical Informatics (9 ECTS)		Nanoanalytics (3 ECTS)		
Bioimaging (3 ECTS)	Biorobotics (6 ECTS)	Research Project in Medical Informatics (9 ECTS)		
Data Literacy (6 ECTS)	Structure and Systems Bioinformatics (9 ECTS)	Medical Data Science (6 ECTS)		
Visualisation of Biological Data (6 ECTS)		Machine Learning in Graphics and Vision (6 ECTS)		
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS		
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	





# New profiles available since 2021

- medical technology or related field (profile B)
- computer science (profile C)



Module Overview Profile B		
Module / Study Area:		ECTS
MEDZ-RES	Research Project	9
MEDZ-BIOMED	Biomedical Informatics	15
MEDZ-MEDTECH	Medicine-Medical Technology	9
INFO-INFO	Computer Science	12
MEDZ-SEM	Seminar	3
MEDZ-INFO	Foundations of Biomedical Informatics	24
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
MASTER	Master's Thesis and Presentation	30
Total ECTS:		120

Course Plan Example Profile B				
Semester				
1	2	3	4	
Visualisation of Biological Data (6 ECTS)	Introduction to Statistical Machine Learning for Bioinformaticians and Medical Informaticians (6 ECTS)	Medical Data Science (6 ECTS)	Master Thesis (27 ECTS)	
Introduction to Data Structures and Programming for Life Scientists (9 ECTS)	Selected Topics in Medical Informatics (9 ECTS)	Sequence Bioinformatics (9 ECTS)		
Advanced Medical Informatics (9 ECTS)	Machine Learning in Graphics and Vision (6 ECTS)	Machine Learning for Health (3 ECTS)		
		Bioimaging (3 ECTS)		
Data Literacy (6 ECTS)	Grundlagen der Bioinformatik (9 ECTS)	Research Project in Medical Informatics (9 ECTS)		
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Master Thesis Presentation (3 ECTS)	
			Total: 30 ECTS	

Module Overview Profile C		
Module / Study Area:		ECTS
MEDZ-BASICMEDINFO	Foundations of Medicine and Bioinformatics	15
MEDZ-RES	Research Project	9
MEDZ-BIOMED	Biomedical Informatics	15
MEDZ-MEDTECH	Medicine-Medical Technology	18
INFO-INFO	Computer Science	12
MEDZ-SEM	Seminar	3
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
MASTER	Master's Thesis and Presentation	30
Total ECTS:		120

Course Plan Example Profile C				
Semester				
1	2	3	4	
Medical Terminology and Human Biology I (6 ECTS)	Machine Learning in Graphics and Vision (6 ECTS)	Research Project in Medical Informatics (9 ECTS)	Master Thesis (27 ECTS)	
Visualisation of Biological Data (6 ECTS)	Grundlagen der Bioinformatik (9 ECTS)	Nanoanalytics (3 ECTS)		
Advanced Medical Informatics (9 ECTS)		Biorobotics (6 ECTS)		
Data Literacy (6 ECTS)	Selected Topics in Medical Informatics (9 ECTS)	Machine Learning for Health (3 ECTS)		
Bioimaging (3 ECTS)		Medical Data Science (6 ECTS)		
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS		
		Total: 30 ECTS		Total: 30 ECTS



I wish you all the best for your time at Tübingen  
and beyond

All the best with your studies!

