

MSc Artificial Intelligence in Medicine, University of Bern - Timetable Autumn Semester 2025 - First Semester Courses

	Monday	Tuesday	Wednesday	Thursday	Friday
Time					
8/00 h					
8/15 h					
8/30 h			08.15-10.00 Introduction to Digital Signal Processing	08.15 - 10.00 Applied Biostatistics Practical session 1	08.15 - 10.00 Applied Biostatistics Lecture
8/45 h					
9/00 h					
9/15 h					
9/30 h			TBD	Location TBC	Location TBC
9/45 h			Module Applications	Module Foundation	Module Foundation
10/00 h					
10/15 h	10.15 - 12.00 Introduction to Programming	10.15 - 13.00 Internet of Things	10.15-12.00 Introduction to Artificial Intelligence		
10/30 h			10.15-12.00 Basics in Physiology		10.15 - 12.00 Applied Biostatistics Practical session 2
10/45 h					
11/00 h	Seminarraum 206 Hauptgebäude H4		Auditorium 102 VonRoll		
11/15 h	Module Foundation		Module Medicine		
11/30 h					
11/45 h				Seminarraum 111 Engehalde E8	Location TBC
12/00 h				Module Foundation	Module Foundation
12/15 h					
12/30 h		Hörsaal 2 002 Engehalde E8			
12/45 h		Module Foundation			
13/00 h					
13/15 h					
13/30 h					
13/45 h					
14/00 h					
14/15 h	14.15 - 17.00 Computer Vision			14.15 - 17.00 Discrete Mathematics	14.15 - 16.00 Numerical Methods
14/30 h					
14/45 h					
15/00 h					
15/15 h					
15/30 h					
15/45 h		15.15 - 16.15 Introduction to Python	Room TBD University of Fribourg	Hörraum 205 Hauptgebäude H4	Module Foundation
16/00 h			Module Foundation		
16/15 h	Auditorium 2 002 Engehalde, E8				
16/30 h	Module Applications		16.15-18.00 Introduction to Clinics	16.15 - 18.00 Selected Chapters in Mathematics	
16/45 h					
17/00 h					
17/15 h					
17/30 h					
17/45 h					
18.00 h					

Module Medicine (mandatory)

	Basics in Physiology (3 ECTS)
	Introduction to Clinics (4 ECTS)

Module AI (mandatory)

	Introduction to Artificial Intelligence (5 ECTS)
	Machine Learning (5 ECTS)

Module Applications (mandatory)

	Computer Vision (5 ECTS)
	Introduction to Digital Signal Processing (3 ECTS)

Module Foundation - 5 ECTS

The selection of courses in the module *Foundation* depends on the students' individual scientific background. The following list is a pool of suggested courses. Students may consider courses not found on the list.

	Applied Biostatistics with Practicals I (4 ECTS)
	Applied Optimisation (5 ECTS)
	Discrete Mathematics (5 ECTS)
	HPC and Cloud Computing (1 ECTS)
	Internet of Things (5 ECTS)
	Introduction to Programming (2 ECTS)

	Introduction to Python (2 ECTS)
	Linear Models and Regression I (9 ECTS)
	Numerical Methods (5 ECTS)
	Selected Chapters in Mathematics (2 ECTS)
	Seminar Data Science (5 ECTS)