

HT25 5HI001 - "Computer Applications in Health Care and Biomedicine" course

Schedule of the course – 25th June 2025

When: the course starts on **Monday 1st December 2025** and runs until **Sunday 18th January 2026**.

Where: Solna Campus. Rooms: *Wretlind, Karolina, David, and Wangari* . Study visits might be at the hosts' venues.

Notice 1: The schedule presents course activities, including mandatory activities (i.e., activities that require compulsory attendance). Please save the dates and times for the planned sessions and the mandatory activities (dates and times are presented for Central European Time – CET time zone, i.e., Stockholm time). Topics for class activities are consolidated. Some sessions with guest lectures should be confirmed (yellow background color). Deadlines and mandatory activities (including assignments and re-examinations) are consolidated. This schedule does not include the time you need for studying lectures, literature, or other learning materials. Lectures can be in person, in the class, online as Zoom meetings (only in special cases), alternatively provided as recorded videos.

Notice 2: Please make sure that you have a personal computer/ laptop available for practicing, as software tools running on personal computers/ laptops will be used in the course.

Notice 3: Composition of the Groups for the mandatory group assignment on Public Health Informatics will be done by the teacher; however, groups can be proposed by students. Different ways of student grouping within the course will be discussed in the first session.

Schedule of the course

Week	#	Date	Time	Activities	Lecturer	Room
49	1	Monday 1 December 2025	10:00-12:00	Mandatory activity 1: Roll call + 0.1 Introduction to the course; 0.2 Description of the group activity for Public Health Informatics (PHI), mandatory group assignment	SB	Wretlind
			13:00-14:00	1.2 Introduction to modelling health care processes. Recap on UML Activity diagrams		
			14:00-16:00	Mandatory activity 2: Group activity on "Healthcare professionals' information needs". Groups work on modelling with Unified Modelling Language (UML) Activity Diagrams.		
	2	Tuesday 2nd December 2025	10:00-12:00	4.1 - What is Public Health? Introduction to Public Health and Public Health Informatics (PHI)	SB	Karolina
			13:00-16:00	1.3 From patient data to medical knowledge. + 1.4 Introduction to Object Oriented Modelling. Recap on UML Class Diagrams.		
	3	Wednesday 3rd December 2025	10:00-12:00	1.5 Introduction to Medical Terminologies and Biomedical Ontologies"- Basic concepts	SB	Karolina
			13:00-16:00	1.5 Introduction to Medical Terminologies and Biomedical Ontologies" – ICD-9/10/11; SNOMED CT; FASS/LOINC		
	4	Thursday 4th December 2025	10:00-12:00	1.13 - Health Information systems + 2.1 The Electronic Medical Record (EMR) - Part 1	SB	Karolina
			13:00-16:00	2.1 The Electronic Medical Record (EMR) – a UML representation – Part 2		
	5	Friday 5th December 2025	10:00-12:00	2.2 - Introduction to Clinical Decision Support (CDS)	SB	Karolina
			13:00-16:00	Mandatory activity 3: Group activity on "Healthcare professionals' information needs". Groups present their models to the class. Class discussion.		
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50	1	Monday 8th December 2025	10:00-12:00	1.7 Introduction to Standards in Health Informatics	SB	David
			13:00-16:00	Mandatory activity 4: Group activity on Conceptual Data Modelling in Health Care context. Groups work on modelling with Unified Modelling Language Class diagrams.		
	2	Tuesday 9th December 2025	10:00-12:00	1.6 - "Semantic interoperability in Health Care and Social Care", from the Socialstyrelsen - National Board of Health and Welfare. (Option 1 - not confirmed)	Guests from Socialstyrelsen	Karolina
			13:00-16:00	Groups work on modelling with Unified Modelling Language Class diagrams.	SB	
	3	Wednesday 10th December 2025	10:00-12:00	2.3 Modelling of clinical practice guidelines – Part 1	SB	Karolina
			13:00-15:00	2.3 Modelling of clinical practice guidelines – Part 2		
			15:00-17:00	1.9 - Standardisation: why and how. Part 1 - Context, fundamental problems, strategies, and examples of solutions for Electronic Health Records (Not confirmed)	ES	
	4	Thursday 11th December 2025	10:00-12:00	No class activity. Time for working on the group work Conceptual Data Modelling in Health Care context.		Karolina
			13:00-16:00	Mandatory activity 5: Group activity on Conceptual Data Modelling in Health Care context. Groups present their models to the class. Class discussion.		
	5	Friday 12th December 2025	10:00-12:00	1.6 - "Semantic interoperability in Health Care and Social Care", from the Socialstyrelsen - National Board of Health and Welfare. (Option 2 - not confirmed)	Guests from Socialstyrelsen	Karolina
			15:00-17:00	1.8 SNOMED CT Analytics - Workshop by guests from SNOMED International (snomed.org) (Online) (Option 1 - not confirmed)	Online Guests - SNOMED Int	Online
			@16:00:00	Publication of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).		Online
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Week	#	Date	Time	Activities	Lecturer	Room
51	1	Monday 15th December 2025	10:00-12:00	Mandatory activity 6 (1/2): Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on modelling Clinical practice guidelines.	SB	David
			13:00-16:00	Mandatory activity 6 (2/2): Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups work on modelling Clinical practice guidelines.	SB	
	2	Tuesday 16th December 2025	10:00-12:00	Healthcare Infrastructure + Cybersecurity	SN	Wangari
			13:00- 16:00	Apps development and publications	SN + guests	
	3	Wednesday 17th December 2025	10:00-12:00	3.2 - Frameworks for Mobile Health Apps assessment	SN + SB	David
			13:00-15:00	Mandatory activity 7: Group activity on Modelling Clinical practice guidelines, by IF-THEN rules. Groups present their models to the class. Class discussion.	SB	
			15:00-17:00	1.9 - Standardisation: why and how. Part 2 - Tool & system demonstrations, examples, Q&A (Not confirmed)	ES	
	4	Thursday 18th December 2025	13:00 - 14:00	Q/A session on Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).	SB	Online
			15:00-17:00	1.8 SNOMED CT Analytics - Workshop by guests from SNOMED International (snomed.org) (Online) (Option 2 - not confirmed)	Online Guests - SNOMED Int	Online
	5	Friday 19th December 2025	10:00-12:00	Mandatory activity 9: Groups work on their projects on Public Health Informatics (and inform about title and stage).	SB	David
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52	1	Monday 22th December 2025		No class activity		
	2	Tuesday 23th December 2025		No class activity		
	3	Wednesday 24th December 2025		No class activity		
	4	Thursday 25th December 2025		Holiday		
	5	Friday 26th December 2025		Holiday		
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Week	#	Date	Time	Activities	Lecturer	Room
1	1	Monday 29th December 2025		No class activity		
			@16:00:00	Publication of Individual Assignment 2 - Consumer Health Informatics (CHI);		Online
	2	Tuesday 30th December 2025		No class activity		
	3	Wednesday 31st December 2021		No class activity		
	4	Thursday 1st January 2026		Holiday		
	5	Friday 2nd January 2026		No class activity		
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2	1	Monday 5th January 2026		No class activity		
	2	Tuesday 6th January 2026		Holiday		
	3	Wednesday 7th January 2026		No class activity		
	4	Thursday 8th January 2026	14:00-16:00	4.2 Informatics for Population Health (Option 1 - not confirmed)	LAM	Online
			@23:59:00	Mandatory activity 8: Online Submission Deadline of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).		Online
	5	Friday 9th January 2026	10:00-12:00	4.3 Quality registries in Sweden (Option 1 - not confirmed)	JH	Wretlind
			14:00-16:00	2.4 Introduction to Telemedicine + Class Discussion (Option 1 - not confirmed)	GD	Online
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Week	#	Date	Time	Activities	Lecturer	Room
3	1	Monday 12th January 2026	10:00-11:00	1.10 - Ethical, Legal and Social issues + Health Informatics Ethics – Class activity on Ethical Dilemma	SB	Wretlind
			11:00-12:00	Q/A session on Individual Assignment 2 - Consumer Health Informatics (CHI)		
			14:00-16:00	2.4 Introduction to Telemedicine + Class Discussion (Option 2 - not confirmed)	GD	Online
			@23:59:00	Online Late Submission of Individual Assignment 1 - Common tools for Health Informatics (G) + Clinical Informatics Part (CI).		Online
	2	Tuesday 13th January 2026	10:00-12:00	4.3 Quality registries in Sweden (Option 2 - not confirmed)	JH	Wretlind
			14:00-16:00	4.2 Informatics for Population Health (Option 2 - not confirmed)	LAM	Online
	3	Wednesday 14th January 2026	10:00-12:00	4.3 Quality registries in Sweden (Option 3 - not confirmed)	JH	Wretlind
			14:00-16:00	Study visit @ Cambio CDS (Not confirmed)		At Cambio
	4	Thursday 15th January 2026	@08:59:00	Mandatory activity 10: Online Submission Deadline of Mandatory Group Assignment on Public Health Informatics (PHI)		Online
			10:00-12:00	Mandatory activity 11: Seminar - Group activity presentations and feedback - Session 1.	SB	Wretlind
			13:00-16:00	Mandatory activity 12: Seminar – Group activity presentations and feedback - Session 2.		
	5	Friday 16th January 2026		No class activity		
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	7	Sunday 18th January 2026	@23:59:00	Mandatory activity 13: Online Submission Deadline of Individual Assignment 2 - Consumer Health Informatics (CHI)		Online
Week	#	Date	Time	Activities	Lecturer	Room
4	1	Monday 19th January 2026	@00:15:00	Online Late Submission of Individual Assignment 2 - Consumer Health Informatics (CHI)		Online

Re-examination of Individual Assignments

Week	Date	Time	Activities	Room
16	Monday 13th April 2026	@16:00:00	Get access to Re-examination of Individual Assignments 1 and 2 - April 2026	Online
18	Wednesday 29th April 2026	@23:59:00	Deadline of Re-examinations of Individual Assignments 1 and 2 - April 2026	Online
19	Wednesday 6th May 2026	@23:59:00	Deadline for late submission (max C grade) of Re-examinations of Individual Assignments 1 and 2 - April 2026	Online
Week	Date	Time	Activities	Room
30	Wednesday 22nd July 2026	@16:00:00	Get access to Re-examination of Individual Assignments 1 and 2 - August 2026	Online
32	Wednesday 5th August 2026	@23:59:00	Deadline of Re-examinations of Individual Assignments 1 and 2 - August 2026	Online
33	Wednesday 12th August 2026	@23:59:00	Deadline for late submission (max C grade) of Re-examinations of Individual Assignments 1 and 2 - August 2026	Online