Bijlage 7. Track Digital Humanities
(Learning outcomes of the degree programme + Matrix of learning outcomes)

The programme learning outcomes (PLO) referred to below can be found under 3.2 of the Teaching and Examination Regulations (TER/OER), part B of the MA programme Communicatie- en Informatiewetenschappen, to which this assessment plan is an appendix.

X=the course unit tests the PLO at the appropriate level for the year and position of the course in the programme.
X (bold) = the course unit tests the competence as described in the PLO at end level of the programme.

Learning pathways	Field-specific knowledge			Field-specific skills									Academic and transferable skills			
Dublin descriptors	Knowledge and understanding			Applying knowledge and understanding					Making judgments				Communication		Learning Skills	
Year 1, semester 1 — PLO	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2
Understanding Digital Humanities	X	X	X	X					X	X			X		X	X
Coding for Humanities	X			X					X							
Database Design	X	X		X	X			X	X							
Collecting Data	X			X	X		X						X			X
Digital Humanities: Tools and Methods	X			X			X		X	X						
Data in Society	X			X			X	X			X		X	X	X	X
Year 1, semester 2 — PLO	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2
Software and Data as Culture	X			X		X	X			X			X			
Analysing Data	X			X	X		X						X			
Thesis Lab	X	X		X	X				X	X		X	X			
MA Thesis	**X**	**X**		**X**	**X**				**X**	**X**		**X**	**X**		**X**	**X**

Appendix 2. Learning outcomes and their assessment in course units

Year 1 Semester 1					
Module	Code	Learning pathway	PLO	Course learning outcome	Assessment
Understanding Digital Humanities	LHU008M05	Field-specific knowledge	1.1	Identify key debates within digital humanities research and are able to evaluate them critically in weekly written assignments.	Weekly assignments, Essay
			1.2	A broad understanding of the theories and methods being used in Digital Humanities	
			1.3	Communicate effectively about the central concepts and debates in a clear and concise manner both orally and in written form	
		Field-specific skills	2.1	Ability to assess strengths and weaknesses of the approaches that are discussed in the assigned literature	
			3.1	Ability to follow, interpret and evaluate the ways in which theories and methods are developing within the discipline.	
			3.2	Ability to systematically and creatively deal with complex questions and form justified judgements	
		Academic and transferable skills	4.1	Ability to communicate conclusions clearly to experts and non-experts	
		Learning skills	5.1	The ability to independently plan and execute academic research	
			5.2	The ability to study independently with an aim towards continuous professional development, in the course of which knowledge and experience can be applied within new contexts.	
Coding for Humanities	LHU002M05	Field-specific knowledge	1.1	• Write simple programs to perform basic tasks such as searching and cleaning text corpora (Application of Knowledge and Insight). • Work with Jupyter Notebooks and other common Python data science tools to report on simple exploratory experiments: load a tabular dataset, compute summary statistics, and create plots (Application of Knowledge and Insight). • Understand and solve common errors during programming (Application of Knowledge and Insight).	2 Exams
			1.2		
		Field-specific skills	2.1	• Write simple programs to perform basic tasks such as searching and cleaning text corpora (Application of Knowledge and Insight).	

				• Work with Jupyter Notebooks and other common Python data science tools to report on simple exploratory experiments: load a tabular dataset, compute summary statistics, and create plots (Application of Knowledge and Insight). • Understand and solve common errors during programming (Application of Knowledge and Insight).	
			3.1	• Read documentation on available software to evaluate its applicability to a problem (Learning skills). • Collaborate effectively with programmers using proper terminology (Communication).	
Database Design	LHU010M05	Field-specific knowledge	1.1	• Knowledge and understanding of the theory and practice of digital data storage, data treatment and analysis (1.1, 1.2) • Knowledge and application of the E-R Model (1.1, 1.2, 2.1, 2.2, 3.1) • Knowledge and use of SQL for queries and data manipulation (1.1, 1.2, 2.1, 2.2, 3.1) • Understanding Functional Dependencies and Normalization (1.1, 1.2, 2.1, 2.2, 3.1) • Acquire familiarity with other data structures (i.e. CSV and XML) (1.1, 1.2)	Weekly assignments, final project (group), exam
			1.2	• Knowledge and understanding of the theory and practice of digital data storage, data treatment and analysis (1.1, 1.2) • Knowledge and application of the E-R Model (1.1, 1.2, 2.1, 2.2, 3.1) • Knowledge and use of SQL for queries and data manipulation (1.1, 1.2, 2.1, 2.2, 3.1) • Understanding Functional Dependencies and Normalization (1.1, 1.2, 2.1, 2.2, 3.1) • Acquire familiarity with other data structures (i.e. CSV and XML) (1.1, 1.2)	
		Field-specific skills	2.1	• Knowledge and application of the E-R Model (1.1, 1.2, 2.1, 2.2, 3.1)Knowledge and use of SQL for queries and data manipulation (1.1, 1.2, 2.1, 2.2, 3.1) • Understanding Functional Dependencies and Normalization (1.1, 1.2, 2.1, 2.2, 3.1) • Ability to create a database, store and upload data, query data, and provide data analysis (2.1, 2.2, 3.1, 2.5)	
			2.2	• Knowledge and application of the E-R Model (1.1, 1.2, 2.1, 2.2, 3.1) • Knowledge and use of SQL for queries and data manipulation (1.1, 1.2, 2.1, 2.2, 3.1)	

				• Understanding Functional Dependencies and Normalization (1.1, 1.2, 2.1, 2.2, 3.1) • Ability to create a database, store and upload data, query data, and provide data analysis (2.1, 2.2, 3.1, 2.5)	
			2.5	Ability to create a database, store and upload data, query data, and provide data analysis (2.1, 2.2, 3.1, 2.5)	
			3.1	• Knowledge and application of the E-R Model (1.1, 1.2, 2.1, 2.2, 3.1) • Knowledge and use of SQL for queries and data manipulation (1.1, 1.2, 2.1, 2.2, 3.1) • Understanding Functional Dependencies and Normalization (1.1, 1.2, 2.1, 2.2, 3.1) • Ability to create a database, store and upload data, query data, and provide data analysis (2.1, 2.2, 3.1)	
Collecting Data	LHU012M05	Field-specific knowledge	1.1	Competent in gathering and formatting data for a typical digital humanities research question (1.1, 2.1, 2.2)	Weekly assignments
		Field-specific skills	2.1	• Competent in gathering and formatting data for a typical digital humanities research question (1.1, 2.1, 2.2) • Setting up annotation guidelines (2.1, 2.2) • Deciding what annotation method is most suitable for a certain task (2.1, 2.2) • Critically assessing the acquired data set (2.1, 2.2)	
			2.2	• Competent in gathering and formatting data for a typical digital humanities research question (1.1, 2.1, 2.2) • Setting up annotation guidelines (2.1, 2.2) • Deciding what annotation method is most suitable for a certain task (2.1, 2.2) • Critically assessing the acquired data set (2.1, 2.2)	
			2.4	• Demonstrate originality and creativity in engaging with the field and topic of study (2.4)	

		Academic and transferable skills	4.1	Ability to communicate conclusions clearly to experts and non-experts (4.1)	
		Learning skills	5.2	Communicative competence that is broadly societally applicable: the student displays a context-sensitive disposition and is able to work both individually and in teams to develop products and services in line with a preconceived target audience (5.2)	
Digital Humanities: Tools and Methods	LHU011M05	Field-specific knowledge	1.1	Knowledge of and insight in the theory and method of data visualization in a humanities context, demonstrated in the successful completion of course assignments (1.1)	Weekly assignments, final poster, final poster presentation
		Field-specific skills	2.1	Ability to use the obtained knowledge, insight, and skills to select data, apply digital methods and techniques, and critically evaluate tools as well as data visualizations for research in interdisciplinary humanities questions or practical problems (2.1)	
			2.4	Demonstrated originality and creativity in applying ideas about tools and methods in the Digital Humanities (2.4)	
			3.1	Demonstrated ability to understand, interpret, and evaluate theories, tools and methods in the Digital Humanities (3.1)	
			3.2	Demonstrated ability to systematically and creatively deal with complex questions and topic-related issues and form a critical perspective (3.2)	
Data in Society	LHU004M05	Field-specific knowledge	1.1	• a broad understanding of data, information and knowledge as aspects of contemporary society, including theoretical and analytic perspectives • an understanding of the social history of data, from which to analyse the contemporary position of data • an understanding of the impacts and effects of political and economic systems and socio-cultural influences on data	Weekly assignments, final individual essay
		Field-specific skills	2.1	ability to assess strengths and weaknesses of the approaches that are discussed in the assigned literature	
			2.5	critical knowledge of the role of data in everyday life from a scholarly perspective based on the assigned literature	

Module	Code	Learning pathway	PLO	Course Learning Outcomes	Assessment
			3.3	ability to assess strengths and weaknesses of the approaches that are discussed in the assigned literature	
		Academic and transferable skills	4.1	ability to effectively - both orally and in writing - communicate the results of research and present complex information in a clear and concise manner	
			4.2	ability to effectively - both orally and in writing - communicate the results of research and present complex information in a clear and concise manner	
		Learning skills	5.1	ability to apply the requisite research skills to gather, process and critically evaluate information relating to data in society	
			5.2	ability to apply the requisite research skills to gather, process and critically evaluate information relating to data in society	
Year 1 Semester 2					

Module	Code	Learning pathway	PLO	Course Learning Outcomes	Assessment
Software and Data as Culture	LHU006M05	Field-specific knowledge	1.1	Students will be able to identify key artworks and digital research projects in five cultural domains, and evaluate how these employ software and data critically and reflexively in weekly written assignments. This relates directly to 1.1 (knowledge acquisition) of the programme level outcomes.	Weekly assignments, final project, final essay
		Field-specific skills	2.1	• Students will be able work in a group to draft design proposals for critical artworks and research projects using existing digital tools, and present this to an audience of peers. This relates directly to 2.1 (methods and skills) and 2.4 (creative skills) of the programme level outcomes • Students will be able to work in a group to create a small-scale, data-driven artwork or research project, and will be able to provide reflections on their group work process. This relates directly to 2.1 (methods and skills), 2.4 (creative skills) and 3.2 (form critical opinions) of the programme level outcomes.	
			2.3	Students will be able to use the outcomes of their research in the weekly assignments to further develop theories about weekly themes and concepts or to develop practical applications (2.3)	
			2.4	• Students will be able work in a group to draft design proposals for critical artworks and research projects using existing digital tools, and	

				• present this to an audience of peers. This relates directly to 2.1 (methods and skills) and 2.4 (creative skills) of the programme level outcomes • Students will be able to work in a group to create a small-scale, data-driven artwork or research project, and will be able to provide reflections on their group work process. This relates directly to 2.1 (methods and skills), 2.4 (creative skills) and 3.2 (form critical opinions) of the programme level outcomes.	
			3.2	• Students will be able to work in a group to create a small-scale, data-driven artwork or research project, and will be able to provide reflections on their group work process. This relates directly to 2.1 (methods and skills), 2.4 (creative skills) and 3.2 (form critical opinions) of the programme level outcomes. • Students will be able to comment on their own artwork or research project in relation to existing theory and practice in an individual essay. This relates directly to 3.2 (form critical opinions) of the programme level outcomes.	
		Academic and transferable skills	4.1	Students will be able to successfully, and in line with specific pre-determined assessment criteria, present their group work in weekly seminars. See Appendix II of the syllabus for the presentation assessment form. This relates directly to 4.1 (communication) of the programme level outcomes.	
Analysing Data	LHU001M05	Field-specific knowledge	1.1	Analysing data for a typical digital humanities research question (1.1)	Weekly assignments
		Field-specific skills	2.1	• Including analytics based on inferential statistics (2.1, 2.2) • Acquiring familiarity and knowledge of techniques for pattern discovery in large quantities of data such as Topic Modeling and word embeddings (2.1, 2.2) • Setting up simple machine learning experiments (2.1, 2.2, 2.4)	
			2.2	• Including analytics based on inferential statistics (2.1, 2.2) • Acquiring familiarity and knowledge of techniques for pattern discovery in large quantities of data such as Topic Modeling and word embeddings (2.1, 2.2) • Setting up simple machine learning experiments (2.1, 2.2, 2.4)	
			2.4	Setting up simple machine learning experiments (2.1, 2.2, 2.4)	
			3.1		
			3.2		

		Academic and transferable skills	4.1	Becoming familiar with reporting experiments and quantitative results in writing (4.1)	
Thesis Lab	LHU007M05	Field-specific knowledge	1.1	Knowledge and understanding of the main academic theories and research methods with regard to digital humanities;	MA Thesis proposal
			1.2	Knowledge and understanding of the influence of digitization and digital methods on society and the humanities.	
			1.3		
		Field-specific skills	2.1	Knowledge and understanding of digital humanities methods and techniques.	
			2.2	Ability to apply knowledge and insights to select appropriate digital methods and techniques and apply these in interdisciplinary research or to practice-oriented problems and questions.	
			2.3		
			2.4		
			2.5		
			3.1	Ability to follow, interpret and evaluate the ways in which theories and methods are developing within the discipline.	
			3.2	Ability to systematically and creatively deal with complex questions and form justified judgements	
			3.3		
			3.4		
		Academic and transferable skills	4.1	Ability to communicate conclusions clearly to experts and non-experts	
			4.2		
		Learning skills	5.1		
			5.2		
MA Thesis DH	LHU999M15	Field-specific knowledge	1.1	Knowledge and understanding of the main academic theories and research methods with regard to digital humanities;	MA Thesis
			1.2	Knowledge and understanding of the influence of digitization and digital methods on society and the humanities.	
			1.3		
			2.1	Knowledge and understanding of digital humanities methods and techniques.	

		Field-specific skills	2.2	Ability to apply knowledge and insights to select appropriate digital methods and techniques and apply these in interdisciplinary research or to practice-oriented problems and questions.	
			2.3		
			2.4		
			2.5		
			3.1	Ability to follow, interpret and evaluate the ways in which theories and methods are developing within the discipline.	
			3.2	Ability to systematically and creatively deal with complex questions and form justified judgements	
			3.3		
			3.4		
		Academic and transferable skills	4.1	Ability to communicate conclusions clearly to experts and non-experts	
			4.3		
		Learning Skills	5.1	The ability to independently plan and execute academic research	
			5.2	The ability to study independently with an aim towards continuous professional development, in the course of which knowledge and experience can be applied within new contexts.	