

CURRICULUM

PhD students are required to accumulate credits as follows:

Year 1 Requirements			
Modules	Courses (F: Fall; W: Winter; S: Spring term)	Mandatory / Mandatory-Elective / Elective	ECTS
Coursework	Fundamental Ideas in Network Science (F)	mandatory	4
	Social Networks 1 (F)	mandatory	4
	Professionalization (F)	mandatory	4
	Data Mining and Big Data Analytics (W)	mandatory	4
	Structure and Dynamics of Complex Networks (W)	mandatory	4
	Scientific Python (F)	mandatory-elective	4
	Introduction to Computational Social Science (F)	mandatory-elective	4
	Data and Network Visualization (W)	mandatory-elective	4
	Data Science for the Sustainable Dev. Goals (W)	mandatory-elective	4
	Agent Based Models (W)	mandatory-elective	4
	Social Networks 2 (W)	mandatory-elective	4
	Digital Data Collection Methods (W)	mandatory-elective	4
	Elective course (W or S)	elective	4
Seminar	Seminar (F, W, S)	mandatory	12
Research	Research Proposal Development (W, S)	mandatory	10
Exam	Comprehensive Examination (S)	mandatory	6
Mandatory total: 48 ECTS			
Mandatory elective total: 12 ECTS			
Elective courses are optional, but "Academic Writing for Network Science PhD students" (S) is recommended.			
Year 1 Credit Total: 60 ECTS			

Year 2 Requirements			
Modules	Courses	Mandatory / Mandatory-Elective	ECTS
Research	Research Colloquium 2nd year (W)	mandatory	4
	Dissertation Research 1 (F)	mandatory	16
	Dissertation Research 2 (W)	mandatory	16
	Dissertation Research 3 (S)	mandatory	12
Reading course	Reading Course A1 (F)	mandatory-elective	4
	Reading Course A2 (W)	mandatory-elective	4
	Reading Course B (F)	mandatory-elective	8
Teaching Experience	Teaching Assistance	mandatory	4
Mandatory total: 48 ECTS			
Mandatory elective total: 12 ECTS			
Elective courses are optional.			
Year 2 Credit Total: 60 ECTS			

PhD in Network Science curriculum
2024-25

Year 3 Requirements			
Modules	Course / Activity	Mandatory / Mandatory-Elective	ECTS
Research	Research Colloquium 3rd year (W)	mandatory	4
	Dissertation Writing 1 (F)	mandatory	20
	Dissertation Writing 2 (W)	mandatory	20
	Dissertation Writing 3 (S)	mandatory	16
Mandatory total: 60 ECTS Mandatory elective total: 0 ECTS Elective courses are optional. Year 3 Credit Total: 60 ECTS			

Year 4 Requirements			
Modules	Course / Activity	Mandatory / Mandatory-Elective	ECTS
Research	Research Colloquium 4th year (W)	mandatory	4
	Dissertation Writing 1 (F)	mandatory	20
	Dissertation Writing 2 (W)	mandatory	16
	Dissertation Writing 3 and Doctoral Defense (S)	mandatory	20
Mandatory total: 60 ECTS Mandatory elective total: 0 ECTS Elective courses are optional. Year 4 Credit Total: 60 ECTS			