

**INDICATIVE STUDY PLAN - MASTER'S DEGREE IN COMPUTER SCIENCE –Systems and Networks Area**

*These examples are indicative only, because there are many possible options within the Master's degree. Please consult the "Manifesto" for a complete list of all courses.*

*In selecting a course, students must check in the "Manifesto" any possible other course recommended as a prerequisite, and include the prerequisite course in the study plan as a free-choice course.*

First Year						
First Semester	CFU	Professor		Second Semester	CFU	Professor
145451 - Computability and computational complexity	6	Kuper G.		145462 - Simulation and performance evaluation	6	Lo Cigno R.
145936 - Innovation and Entrepreneurship Basic	6	Stoycheva M.		145617- Distributed systems 1	6	Picco G.P.
145300 – Concurrency	6	Quaglia P		145065 - Network Security	6	Crispo B.
145085 - Web Architectures	6	Ronchetti M.		BREADTH requirements	12	
Free-choice course/s**	6			Free-choice course/s**		
Second Year						
First Semester	CFU	Professor		Second Semester	CFU	Professor
140153 - Network modeling and design	6	Granelli F.		Internship or Stage	6	
145614 - Multimedia Data Security		Boato G.		Prova Finale	24	
BREADTH Requirements	6					
Free-choice course/s**	18					

**\*\* At the discretion of the student, to be chosen among the courses listed in the "Manifesto"**

For the BREADTH Requirement courses (chosen in another area) it is recommended to take:

- 145056 - Formal methods (1<sup>st</sup> year, 2<sup>nd</sup> semester)
- 145449 - Big Data and Social Networks (2<sup>nd</sup> year, 2<sup>nd</sup> semester)

Among the free-choice courses the following is recommended:

- 145618 - Distributed systems 2 (2<sup>nd</sup> year, 1<sup>st</sup> semester)

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*In selecting a course, students must check in the "Manifesto" any possible other course recommended as a prerequisite, and include the prerequisite course in the study plan as a free-choice course.*

First Year						
First Semester	CFU	Professor		Second Semester	CFU	Professor
145451 - Computability and computational complexity	6	Kuper G.		145462 - Simulation and performance evaluation	6	Lo Cigno R.
145936 - Innovation and Entrepreneurship Basic	6	Stoycheva M.		BREADTH requirements	18	
145300 – Concurrency	6	Quaglia P				
145447 – Advanced computing architectures	6	Passerone R.				
Free-choice course/s**	6			Free-choice course/s**	6	
Second Year						
First Semester	CFU	Professor		Second Semester	CFU	Professor
140153 - Network modeling and design	6	Granelli F.		Internship o Stage	6	
145614 - Multimedia Data Security		Boato G.		Prova Finale	24	
145458 - Laboratory of Applied robotics	6	Palopoli				
145079 - Laboratory of Wireless Sensor Networks	6	Picco G.P				
Free-choice course/s**	12					

*\*\* At the discretion of the student, to be chosen among the courses listed in the "Manifesto"*

For the BREADTH Requirement courses (chosen in another area) it is recommended to take:

- 145056 - Formal methods (1<sup>st</sup> year, 2<sup>nd</sup> semester)

Among the free-choice courses the following is recommended:

- 145943 – Wireless Mesh and Vehicular Networks (2<sup>nd</sup> year, 1<sup>st</sup> semester)