Computer Science BSc course list

In the table below you can find the courses that you are expected to study in each semester and their prerequisites (courses that have to be completed beforehand). P stands for practice, L is for lecture. If a subject has both practice and lecture parts, you have to pass the practical part before you can take the exam from the lecture. The exception is Computer graphics, where you can complete the practice and the lecture independently. Some subjects are P+L type, which means that you will have both practice and lecture lessons, but you will only get one combined grade for them. (The P, L, P+L indications are not part of the official names of the courses!)

Please bear in mind that on top of these subjects, you also need to complete 9 credits from elective courses.

This table does not include the preliminary year subjects (Basic English I-II., Introduction to mathematics I-II., Introduction to informatics I-II.).

Semester	Course name, type & code	Prerequisite
1	Preparation course for academic studies P (IP-12fTMKG) (for students enrolled in or after September 2016)	-
	Precalculus practices P (IP-12fMATAG)	
	Linear algebra P (IP-12fLAG)	successful entry test or completing the preliminary year
	Linear algebra L (IP-12fLAE)	
	Discrete mathematics I. P (IP-12fDM1G)	
	Discrete mathematics I. L (IP-12fDM1E)	
	Programming fundamentals P+L (IP-12fPAEG)	
	Fundaments of computers P+L (IP-12fSZGAEG)	
	Basic legal and business knowledge L (IP-12fJMIE)	
	Principles of economics L (IP-12fKGAE)	

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2	Analysis I. P (IP-12fAN1G)	Drocalculus practicos
	Analysis I. L (IP-12fAN1E)	Precalculus practices
	Discrete mathematics II. P (IP-12fDM2G)	Discrete methometics I
	Discrete mathematics II. L (IP-12fDM2E)	Discrete mathematics I.
	Formal languages P (IP-12fFNYG)	Discroto mothematics I
	Formal languages L (IP-12fFNYE)	Discrete mathematics I.
	Programming P+L (IP-12fPROGEG)	Programming fundamentals
	Functional programming P (IP-12fFUNPEG)	Programming fundamentals

Semester	Course name, type & code	Prerequisite
3	Analysis II. P (IP-12fAN2G)	Analysis I.
	Analysis II. L (IP-12fAN2E)	
	Numerical methods I. P (IP-12fNM1G)	Analysis I., Linear algebra
	Numerical methods I. L (IP-12fNM1E)	
	Algorithms and data structures I. P (IP-12fAA1G)	Programming
	Algorithms and data structures I. L (IP-12fAA1E)	
	Computer graphics P (IP-12fSZGG)	Linear algebra, Programming
	Computer graphics L (IP-12fSZGE)	Linear algebra
	Programming languages (JAVA) P+L (IP-12fPNY2EG)	Programming
	Practical software engineering I. P+L (IP-12fPROGT1EG)	Programming

Semester	Course name, type & code	Prerequisite
4	Analysis III. P+L (IP-12fAN3EG)	Analysis II.
	Numerical methods II. P (IP-12fNM2G)	Numerical methods I.
	Algorithms and data structures II. P (IP-12fAA2G)	- Algorithms and data structures I.
	Algorithms and data structures II. L (IP-12fAA2E)	
	Operating systems P+L (IP-12fOPREG)	Programming, Fundaments of computers
	Programming languages (C++) P+L (IP-12fPNY1EG)	Programming
	Practical software engineering II. P+L (IP-12fPROGT2EG)	Practical software engineering I.
	Databases I. P (IP-12fAB1G)	Algorithms and data structures l
	Databases I. L (IP-12fAB1E)	Aigorithinis and data structures i.

Semester	Course name, type & code	Prerequisite
5	Models and algorithms P (IP-12fMODALEG)	Analysis III.
	Probability and statistics P (IP-12fVSZG)	Analysis II.
	Probability and statistics L (IP-12fVSZE)	
	Compilers P (IP-12fFPG)	Formal languages,
	Compilers L (IP-12fFPE)	Programming languages (C++)
	Computer networks P (IP-12fSZHG)	Programming languages (C++)
	Computer networks L (IP-12fSZHE)	
	Logic and theory of computation P (IP-12fLSZEG)	Discrete mathematics II., Formal languages
	Logic and theory of computation L (IP-12fLSZEE)	
	Application development P (IP-12fALKEG)	Practical software engineering II.
	Databases II. P (IP-12fAB2G)	Databasas I
	Databases II. L (IP-12fAB2E)	Databases I.

Semester	Course name, type & code	Prerequisite
6	Artificial intelligence L (IP-12fMIAE)	Algorithms and data structures II.
	Distributed systems P (IP-12fORG)	Programming languages (C++)
	Distributed systems L (IP-12fORE)	
	Tools of software projects P (IP-12fPRJG)	Programming languages (C++)