

Curriculum 2012

Computer Systems Engineering Prerequisites

Course Number	Course Title	Prerequisite courses (Number, Title)
1st Semester		
LIS1011	Introduction to Programming	
LIS1021	Introduction to Computer Systems	
MAT0011	Quantitative Reasoning	
MAT1041	Precalculus	
ESPO011	Spanish I	
LEX0111	Foreign Language I	
2nd Semester		
LIS1031	Object-Oriented Programming	LIS1011 Introduction to Programming
LIS1041	Computer Architecture	
INFO011	Information Technology in Knowledge Construction	
MAT1051	Linear Algebra	MAT1041 Precalculus
MAT1061	Calculus I	MAT1041 Precalculus
ESPO021	Spanish II	ESPO011 Spanish I
LEX0121	Foreign Language II	LEX0111 Foreign Language I

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Course Number	Course Title	Prerequisite courses (Number, Title)
3rd Semester		
LIS2011	Discrete Mathematics	MAT1051 Linear Algebra
LIS2021	Data Structures	LIS1031 Object-Oriented Programming
LIS2031	Computer Networks	LIS1041 Computer Architecture
LIS2041	Computer Networks Lab	
LIS2051	Programming Languages and Paradigms	LIS1031 Object-Oriented Programming
MAT1071	Calculus II	MAT1061 Calculus I
LEX0131	Foreign Language III	LEX0121 Foreign Language II
4th Semester		
LIS2061	Storage Technology	LIS2021 Data Structures
LIS2071	Operating Systems	
LIS2081	Human-Computer Interaction	
INF2011	Technological Innovation	
MAT2061	Probability and Statistics	
AHC0011	Art, History and Culture	

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5th Semester		
LIS3011	Software Engineering	
LIS3021	Computer Graphics and Animation	
LIS3031	Databases	LIS2061 Storage Technology
LIS3041	Computing Theory	
LII3091	Lean Systems	
EDS0011	Ethics for Sustainable Development	
6th Semester		
LIS3051	Artificial Intelligence	
LIS3061	Distributed Systems	
LIS3071	Database Management Systems	
LIS3101	Database Management Systems Lab	
LIS3081	Multimedia Processing	
LIS3091	Software Design Patterns	
LII2041	Optimization Methods and Models	

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Course Number	Course Title	Prerequisite courses (Number, Title)
7th Semester		
LIS4011	Professional Practices I	
LIS4021	Applications in Distributed Environments	
LIS4031	Information Retrieval and Web Search	
LIS4041	Telecommunication Systems	
LAD4071	Project and Program Management	LII3091 Lean Systems
TIS4011	Selected Topics I	
8th Semester		
LIS4051	Professional Practices II	LIS4011 Professional Practices I
LIS4061	Information Security	
LIS4071	Mobile Applications	
LIS4081	Network and Server Management	
LIS4091	Network and Server Lab	
TIS4021	Selected Topics II	
TIS4031	Selected Topics III	