OSSU Home Curriculum About OLOGIN WITH GITHU

## Computer Science

## Curriculum

Course Automata

37 courses in 30 categories

Introduction to Computer Science		
Course	Duration	Effort
Introduction to Computer Science - CS50	12 weeks	10-20 hours/week
Math (Mathematical Thinking)		
Course	Duration	Effort
Effective Thinking Through Mathematics	9 weeks	5 hours/week
Program Design		
Course	Duration	Effort
How to Code: Systematic Program Design - Part 1	5 weeks	8-12 hours/week
How to Code: Systematic Program Design - Part 2 How to Code: Systematic Program Design - Part 3	5 weeks 5 weeks	8-12 hours/week 8-12 hours/week
Math (Discrete Math)		
Course	Duration	Effort
Mathematics for Computer Science	12 weeks	5 hours/week
Algorithms		
Course	Duration	Effort
Algorithms, Part I	6 weeks	6-12 hours/week
Algorithms, Part II	6 weeks	6-12 hours/week
Programming Paradigms		
Course	Duration	Effort
Functional Programming Principles in Scala Object Oriented Programming in Java	7 weeks 6 weeks	5-7 hours/week 4-6 hours/week
Coffusor Testing		
Software Testing	Dunation	<b></b>
Course	Duration  4 weeks	Effort
Software Testing Software Debugging	8 weeks	6 hours/week 6 hours/week
Math (Calculus)		
Course	Duration	Effort
Calculus One	16 weeks	8-10 hours/week
Calculus Two: Sequences and Series	7 weeks	9-10 hours/week
Software Architecture		
Course	Duration	Effort
Software Architecture & Design	8 weeks	6 hours/week
Theory		

Duration

6 weeks

**Effort** 

8-10 hours/week

Course Dur	ation Effort
Software Processes and Agile Practices	4 weeks 6-8 hours/week
Math (Probability)	
Course Dur	ation Effort
Introduction to Probability - The Science of Uncertainty	6 weeks 12 hours/week
Computer Architecture	
Course Dur	ation Effort
Computer Architecture	5-8 hours/week
Operating Systems	
Course Dur	ation Effort
Operating Systems and System Programming	0 weeks 2-3 hours/week
Computer Networks	
Course Dur	ation Effort
Computer Networks	4–12 hours/week
Databases	
Course Dur	ation Effort
Databases 1	2 weeks 8-12 hours/week
Cloud Computing	
Course Dur	ation Effort
Introduction to Cloud Computing	4 weeks 1 hour/week
Math (Linear Algebra)	
	ation Effort
Coding the Matrix: Linear Algebra through Computer Science Applications	0 weeks 7-10 hours/week
Cryptography	
	ation Effort
	6 weeks 5-7 hours/week
Cryptography I Cryptography II	6 weeks 6-8 hours/week
	6 weeks 6-8 hours/week
Cryptography II  Security	6 weeks 6-8 hours/week
Cryptography II  Security	
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Course Duration Effort			
	Internet of Things		
The Internet of Things 4 weeks 2 hours/week	Course	Duration	Effort
	The Internet of Things	4 weeks	2 hours/week

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