





**Tentative Course Schedule**  
**(subject to change)**

Date		Topic		HW due	Project
January 14		Class introduction	} week 1		
January 16		GPAC			
January 21		GPAC	} week 2		
January 23		Chemical reaction networks			
January 28		Analog electronics, Chaos	} week 3	HW 1	
January 30		ODEs for Discrete Algs			
February 4		Linear threshold units	} week 4	HW 2	
February 6		Linear threshold units			
February 11		Turing universality	} week 5	HW 3	
February 13		Counter machines			
February 18		Cellular automata	} week 6		Presentation 1 (on Friday)
February 20		Kolmogorov complexity			
February 25		Uncomputability	} week 7	HW 4	
February 27		Landauer limit			
March 4		Uncomputing	} week 8	HW 5	
March 6		1-1 functions			
March 11		Pebble game	} week 9		
March 13		Pebble game			
SPRING BREAK					
March 25		Reversible circuits	} week 10	HW 6	
March 27		Billiard ball model			
April 1		Analogy to stochastic	} week 11	HW 7	
April 3		Cancellation			
April 8		Cancellation	} week 12		Presentation 2 (on Friday)
April 10		Phase query			
April 15		Deutsch-Jozsa algorithm	} week 13	HW 8	
April 17		Shor's algorithm			
April 22		Shor's algorithm	} week 14	HW 9	
April 24		Shor's algorithm			

 Analog Computation  
 Almost anything can compute everything  
 Reversible Computation  
 Quantum Computation