

CIS 115 - Introduction to Computing Science (Spring 2017)

Schedule (as of 1/15/2017)

Date	Lecture	Topic / Blog Article	Reading (Before Class)	Activity
1/17/17	1	What is Computing Science?	<none>	Get a CIS Account!
1/19/17	2	Teams, Projects, and Success	Syllabus & Assignments	Team Resume
1/24/17	3	Early Computing Machines	POTS 1 - Nuts and Bolts	Visual Programming Intro
1/26/17	4	Bits and Boolean Algebra	POTS 2 - Universal Building Blocks	Loops & Conditionals
1/30/17	Blog 1	Personal Introduction		
1/31/17	5	Programming	POTS 3 - Programming	1 - Loops & Conditionals
2/2/17	6	Universal Computers	POTS 4 - How Universal are Turing Machines?	Variables & Lists - Turing Machine
2/7/17	7	Algorithms	POTS 5 - Algorithms and Heuristics	2 - Sorting
2/9/17	8	Encoding Data	POTS 6 - Memory: Information and Secret Codes	Encoding Worksheet
2/13/17	Blog 2	Algorithms		
2/14/17	9	Architecture & Finite State Machines	POTS 7 - Speed: Parallel Computers	3 - Finite State Machine
2/16/17	10	Human Computer Interaction	POTS 8 - Computers that Learn and Adapt	<none>
2/21/17	11	History of the Internet	POTS 9 - Beyond Engineering	Internet Discussion
2/23/17	12	High Performance Computing (Dr. Andresen)	TUBES 1 - The Map	4 - Parallel Programming
2/27/17	Blog 3	Making Meaning - POTS		
2/28/17	13	How the Internet Works	TUBES 2 - A Network of Networks	Packet Switched Network
3/2/17	14	Web Programming 1	TUBES 3 - Only Connect	Web Programming
3/7/17	15	Web Programming 2	TUBES 4 - The Whole Internet	5 - Web Programming
3/9/17	16	Software Engineering	TUBES 5 - Cities of Light	<project work time>
3/13/17	Blog 4	The Internet's Influence		
3/14/17	17	Computer Graphics	TUBES 6 - The Longest Tubes	Drawing & Moving in Scratch
3/16/17	18	Video Games (Nathan Bean)	TUBES 7 - Where Data Sleeps	Video Game Sample
3/17/2017		TOPIC RESEACH PROJECT DUE!		
3/20 - 3/24		Spring Break - No Class!		
3/28/17	19	Topic Presentations 1	9ALG 1 - Introduction	<none>
3/30/17	20	Topic Presentations 2	9ALG 2 - Search Engine Indexing	<none>
4/3/17	Blog 5	Making Meaning - TUBES		
4/4/17	21	Topic Presentations 3	9ALG 3 - PageRank	<none>
4/6/17	22	Searching & Information Retrieval	9ALG 4 - Public Key Cryptography	Page Rank
4/11/17	23	Cryptography	9ALG 5 - Error Correcting Codes	6 - Cryptography
4/13/17	24	Artificial Intelligence	9ALG 6 - Pattern Recognition	7 - Mars Rover
4/14/2017		WIKI ARTICLE DRAFT DUE!		
4/17/17	Blog 6	Computer Science & Mathematics		
4/18/17	25	Compression & Error Correcting	9ALG 7 - Data Compression	Compression Worksheet
4/20/17	26	Informatics & Big Data (Dr. Hsu)	9ALG 8 - Databases	8 - Video Game
4/25/17	27	Cybersecurity	9ALG 9 - Digital Signatures	Cybersecurity Demo
4/27/17	28	Computability	9ALG 10 - What is Computable	<none>
4/28/17		WIKI ARTICLE DUE!		
5/1/17	Blog 7	Making Meaning - 9ALG		
5/2/17	29	Industry Panel	9ALG 11 - Conclusion	<none>
5/4/17	30	The Future	<none>	<none>
5/8/17	Blog 8	Where do I go from Here?		