

# CIS 115 - Introduction to Computing Science (Fall 2015)

## Schedule (as of 8/10/2015)

Date	Lecture	Topic / Blog Article	Reading (Before Class)	Activity
8/25/15	1	What is Computing Science?		Get a CIS Account
8/27/15	2	Teams, Projects, and Success	Syllabus & Assignments	Team Resume
9/1/15	3	Early Computing Machines	POTS 1 - Nuts and Bolts	Scratch Introduction
9/3/15	4	Bits and Boolean Algebra	POTS 2 - Universal Building Blocks	Loops & Conditionals
<b>9/8/15</b>	<b>Blog 1</b>	<b>Personal Biography</b>		
9/8/15	5	Programming	POTS 3 - Programming	<b>1 - Loops &amp; Conditionals</b>
9/10/15	6	Universal Computers	POTS 4 - How Universal are Turing Machines	Variables - Turing Machine
<b>9/14/15</b>	<b>Blog 2</b>	<b>Historical Figure in Computing</b>		
9/15/15	7	Algorithms	POTS 5 - Algorithms & Heuristics	<b>2 - Lists - Sorting</b>
9/17/15	8	Encoding Data	POTS 6 - Memory: Information and Secret Codes	Binary Numbers
<b>9/21/15</b>	<b>Blog 3</b>	<b>Algorithms</b>		
9/22/15	9	Embedded Systems, Architecture, & FSMs	POTS 7 - Speed: Parallel Computers	<b>3 - Finite State Machine</b>
9/24/15	10	High Performance Computing	POTS 8 - Computers that Learn and Adapt	HPC Examples
<b>9/28/15</b>	<b>Blog 4</b>	<b>Computer Systems in Daily Life</b>		
9/29/15	11	Human Computer Interaction	POTS 9 - Beyond Engineering	<b>4 - Parallel Programming</b>
10/1/15	12	Software Engineering	TUBES 1 - The Map	Software Diagrams
<b>10/2/15</b>	<b>TOPIC</b>	<b>Topic Research Project / Presentation Due</b>		
<b>10/5/15</b>	<b>Blog 5</b>	<b>Making Meaning - POTS</b>		
10/6/15	13	<i>Topic Research Presentations</i>	<none>	<none>
10/8/15	14	<i>Topic Research Presentations</i>	<none>	<none>
<b>10/12/15</b>	<b>Blog 6</b>	<b>TBD</b>		
10/13/15	15	<i>Topic Research Presentations</i>	<none>	<none>
10/15/15	16	History of the Internet	TUBES 2 - A Network of Networks	Wiki Article Work Time
<b>10/19/15</b>	<b>Blog 7</b>	<b>Topic Research Response</b>		
10/20/15	17	How the Internet Works	TUBES 3 - Only Connect	Packet Switched Network
10/22/15	18	Programming for the Web	TUBES 4 - The Whole Internet	<b>5 - Web Programming</b>
<b>10/23/15</b>	<b>WIKI</b>	<b>Wiki Article Draft Due</b>		
<b>10/26/15</b>	<b>Blog 8</b>	<b>TBD</b>		
10/27/15	19	TBD	TUBES 5 - Cities of Light	<b>TBD</b>
10/29/15	20	Cryptography	TBD	<b>6 - Cryptography</b>
<b>11/2/15</b>	<b>Blog 9</b>	<b>TBD</b>		
11/3/15	21	Informatics & Big Data	TUBES 6 - The Longest Tubes	Map Reduce
11/5/15	22	Artificial Intelligence	TBD	<b>7 - Mars Rover</b>
<b>11/6/15</b>	<b>WIKI</b>	<b>Wiki Article Final Version Due</b>		
<b>11/9/15</b>	<b>Blog 10</b>	<b>TBD</b>		
11/10/15	23	Computer Graphics	TUBES 7 - Where Data Sleeps	Drawing in Scratch
11/12/15	24	Video Game Design	TBD	<b>Final Project Assigned</b>
<b>11/16/15</b>	<b>Blog 11</b>	<b>Making Meaning - Tubes</b>		
11/17/15	25	Robotics	TBD	Lego Robots
11/19/15	26	<i>Industry Speaker Panel</i>	Speaker Bios & Prep Sheet	<none>
11/24/15		<i>Student Holiday - No Class</i>		
11/26/15		<i>Student Holiday - No Class</i>		
<b>11/30/15</b>	<b>Blog 12</b>	<b>Industry Speaker Response</b>		
12/1/15	27	Cybersecurity	TBD	<work time>
12/3/15	28	Cybersecurity	TBD	<work time>
<b>12/4/15</b>	<b>VIDEO</b>	<b>Video Project Due</b>		
<b>12/7/15</b>	<b>Blog 13</b>	<b>TBD</b>		
12/8/15	29	<i>Video Project Presentations</i>	<none>	<b>Final Project Due</b>
12/10/15	30	The Future	<none>	<none>
<b>12/14/15</b>	<b>Blog 14</b>	<b>Where Do I Go from Here?</b>		