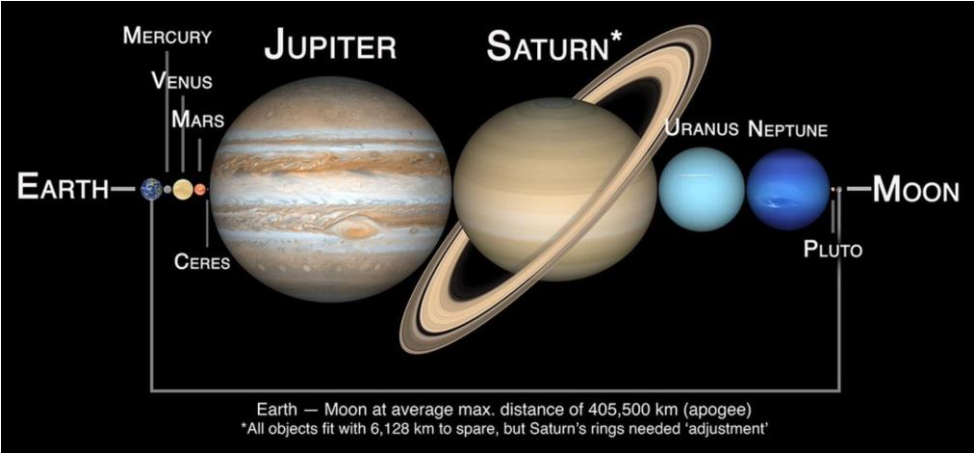


Week	Media Type/Focus	Topics & Assignments
1.1	Reading	<b>Tilley, ch 1. <a href="#">Intro to Systems Analysis</a></b> (free link)
1.1	Podcast / Video	<ul style="list-style-type: none"> <li>1<sup>st</sup> chapter is FREE !, use above link</li> </ul>
X.x	What is business	<ul style="list-style-type: none"> <li>Awareness &amp; Design - Michael Hammer</li> </ul>
X=1	process re-	<ul style="list-style-type: none"> <li><a href="https://www.youtube.com/watch?v=9oxM5JV7H50">https://www.youtube.com/watch?v=9oxM5JV7H50</a></li> </ul>
.x=2	engineering?	<ul style="list-style-type: none"> <li><a href="https://www.youtube.com/watch?v=v-jAf7L2Uak">Business Process Re-engineering explained - https://www.youtube.com/watch?v=v-jAf7L2Uak</a></li> <li>(10.5min/1.25=8.4min)</li> </ul>
1.1	<b>Run videos at speed 1.25</b>	<ul style="list-style-type: none"> <li>IBM Business process Analysis (6.5min/1.25=5.2min)</li> <li><a href="https://www.youtube.com/watch?v=1E6II2U1shY">https://www.youtube.com/watch?v=1E6II2U1shY</a></li> </ul>
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1.1=		
Wk1	What is a system?	Utilize your abstraction instinct while reading because the name "EMS" <u>isn't important</u> , but the concepts are. <a href="https://www.niu.edu/ems/introduction/definition.html">https://www.niu.edu/ems/introduction/definition.html</a>
Day1	inputs	1) definition is page 1 + 8 more pages using <next topic>
	outputs	2) The EMS model
	resources	3) Benefits of EMS
	constraints	4) Examples of EMS
		5) Systems approach
		6) Concept diagram <focus and perform abstraction here>
		7) Processes, inputs, outputs
		a. Example of: inputs, outputs, resources, constraints
		8) Summary
		<ul style="list-style-type: none"> <li><a href="#">IDEF0 - Function Modeling Method - IDEF - website</a></li> </ul>
	IDEF0 Handout	<ul style="list-style-type: none"> <li>2nd example of input, output, res., constraint</li> </ul>
	<b>Assignment Request for 9/1</b>	<p>Select a process you love or dislike. Define its input, outputs, resources, and constraints (IORC). Logically what goes into the system is either consumed or comes out. Notate ALL you think of. Then, list 5 to 10 high-level activities performed by the IORC. Use paper and pencil and send me a picture <b>anytime</b> end of the day tomorrow. I am only asking for a max of 15 min to whip up. Please spend more if having fun. Thank you for considering this fast turnaround, as I will use all work submitted to start Friday's lecture. Perform work as a team as desired or convenient.</p> <p><a href="https://www.niu.edu/ems/introduction/constraints.html">https://www.niu.edu/ems/introduction/constraints.html</a></p>
	Assignment Example page	
	Assignment example <link <a href="#">Model.1.1: IDEF0</a>	<pre> graph LR     subgraph Inputs         direction TB         I1[Coffee]         I2[water]         I3[filter]         I4[electricity]     end     subgraph Constraints         direction TB         C1[Filter size]         C2[water tank]         C3[coffee pot]     end     subgraph Process         direction TB         P[Process: Make coffee]     end     subgraph Outputs         direction TB         O1[Coffee]         O2[used filter]         O3[used]     end     subgraph Mechanism         direction TB         M[User, coffee]     end     subgraph Feedback         direction TB         F[Feedback: Coffee]     end      I1 --&gt; P     I2 --&gt; P     I3 --&gt; P     I4 --&gt; P     C1 --&gt; P     C2 --&gt; P     C3 --&gt; P     P --&gt; O1     P --&gt; O2     P --&gt; O3     M --&gt; P     O1 --&gt; F     F --&gt; I1 </pre>



Week X.x X=wk .x=day	<ul style="list-style-type: none"> <li>Media Type</li> <li>Focus/Goal</li> <li>Assignment</li> </ul>	Topics & Assignments
1.2	<p><a href="#">Model.3: Swimlane</a></p> <p>note: additional resources are now on the model link page</p> <p><a href="#">model.3.swimlane</a></p> <p><a href="#">bh.github</a></p> <p><a href="#">how.to.doc</a></p> <p><a href="#">wikipedia</a></p> <p>sorry! in github you have to download to get link to work or use them here</p> <p><b>Swimlane Assignment request</b> by 9/6 @6ish PM</p>	<p><b>Assignment: Tilley Ch2 + Roughcut Swimlane diagram</b></p> <ul style="list-style-type: none"> <li>Swimlanes no longer have notoriety as in 1993, and some IT professionals view them as a hindrance to what they need, that is, codified information.</li> <li>However, swimlanes are super at helping a senior manager or new employees quickly grasp what an organization is doing and how they are doing it.</li> </ul> <p>""You're the only resource, but you can have and do anything you want to do. Please include,""</p> <ul style="list-style-type: none"> <li>You're the only resource but can have, and do, anything you want to do. Please include, <ul style="list-style-type: none"> <li>Square(ish) boxes to represent activities</li> <li>Lines to connect between activities</li> <li>Line arrowheads to show directionality between shapes</li> <li>Diamond(ish) boxes to represent decisions</li> <li>Text in squares + diamonds + on lines to detail happenings</li> <li>Optional: add a numeric index for each box &amp; feel free to annotate "anyway" you like.</li> </ul> </li> </ul>  <p>For example:</p> <pre> ----- Earth:Launch ↓ ----- Mars:      Fuel up -&gt; Open solar flares 3 yrs ↓ ----- Neptune:                                     Turn into nano-space particulates ----- ❖ Please email a picture however you build it.  ❖ The goal is to be more thoughtful of your logic.</pre>

Week X.x X=wk .x=day	<ul style="list-style-type: none"> <li>Media Type</li> <li>Focus/Goal</li> <li>Assignment</li> </ul>	Topics & Assignments
Wk2 Day1 + Day 2  2.1 + 2.2  Wk2 Day1	<p>Focus / Goal</p> <p>Assignment request to perform by EOD Thursday 9/8.</p> <p>Book <a href="#">Matthes, E. (2019), Python Crash Course, 2nd</a></p> <p>Good luck!</p>	<p><b>Ch5: Overview,</b></p> <p>Develop an understanding of <a href="#">object-oriented programming</a> (OOP) by performing hands-on activities to learn the basics of <a href="#">Python</a> strings, dictionaries, tuples, lists, sets, and functions supporting object-oriented programming methodologies.</p> <p>Understanding the mechanics of info.TECH components can help quickly establish peer credibility. Taking apart hard drives and reading and writing code builds credibility with your future peers. It has also become somewhat necessary for systems design work because file sizes are large, and often regular spreadsheet apps can't open them.</p> <p>Performing hands-on work in OOP will help ensure you can read dot.notation code format shared across many modern programming languages. It will help you write better search criteria in Google to find the information you need. It will also give you modern tools to extract, translate, and load (ETL) data you need for systems design exercises.</p> <p>a) Reading: Tilley, Ch5. b) Reading: <a href="#">Matthes, Alien Invasion, Ch12</a>.  <ul style="list-style-type: none"> <li>Note: custom materials being provided replace Matthes chapters 1-11. Good to skim by priority: Ch:9,1,3,6</li> </ul> c) Install <a href="#">Python</a>  <b>Please watch video (i). The best course of action is installation via anaconda b.c it is engineered to auto-fix MANY challenges. However, if done wrong, the 1st time may take =&gt; 2-3x more work/time to fix. You "do not" have to figure this out yourself so please reach out with any questions.</b> </p> <p>i. 1.3M views on Youtube: <a href="#">Install Anaconda Python, Jupyter Notebook And Spyder on Windows 10 - YouTube</a>  ii. good start place = <a href="#">jupyter notebook classic home</a>  iii. <a href="#">Jupyter :: Anaconda.org</a></p> <p><b>Optional: online\cloud Jupyter Notebook:</b>  I am not 97% sure everything 'coud' run in the new cloud JupyterLite Python.  <ul style="list-style-type: none"> <li><a href="https://jupyter.org/try-jupyter/lab/">https://jupyter.org/try-jupyter/lab/</a></li> <li><a href="#">JupyterLite - JupyterLite 0.1.0-beta.12 documentation</a></li> </ul> </p>