

# Architecture of Complex Systems

## *Project Scoring Rubric*

### WEEK 1: SYSTEMS THINKING

#### Step 2: Identify System Form and Function

<b>Prompt</b>	<b>Step 2: Identify System Form and Function.</b> Did you indicate form and function of the system you chose as well as provide an explanation of why the elements represent form and function as per the example project?
<b>Points</b>	<b>Criteria</b>
3	<b>Complete:</b> Primary form and function of the chosen system is mentioned. An explanation detailing why the chosen elements represent the primary form and function is provided.
2	<b>Partially Complete:</b> Primary form and function of the system is provided. Little to no explanation detailing why these are the primary form and function.
1	<b>Incomplete:</b> The primary form or function of the system is not mentioned or one of the two is not present. Explanation is missing.
0	<b>Not attempted:</b> The project template is without work, in its original state. The project is copied from the samples.

### Step 3: Identify System Entities

<b>Prompt</b>	<b>Step 3: Identify System Entities.</b> Did you highlight both entities in your system? Did you indicate the form and function of the entities as per the example project?
<b>Points</b>	<b>Criteria</b>
3	<b>Complete:</b> Two entities are identified and highlighted in the diagram. Form and function for each entity is also included.
2	<b>Partially Complete:</b> Two entities are identified and highlighted in the diagram. Form and function is not specified for one or both of the entities.
1	<b>Incomplete:</b> Only one entity is identified with incomplete information of form and function.
0	<b>Not attempted:</b> The project template is without work, in its original state. The project is copied from the samples.

#### Step 4: Identify System Relationships

<b>Prompt</b>	<b>Step 4: Identify System Relationships.</b> Did you identify six entities in your system? Did you also identify the relationships between your entities as per the example project?
<b>Points</b>	<b>Criteria</b>
3	<b>Complete:</b> All six entities are identified. Relationships between all the entities are defined using the connectors.
2	<b>Partially Complete:</b> Four to five entities are identified. Not all relationships between the entities are defined.
1	<b>Incomplete:</b> Less than four entities are identified. Not all relationships between the entities were defined.
0	<b>Not attempted:</b> The project template is without work, in its original state. The project is copied from the samples.

## Step 5: Predict System Emergence

<b>Prompt</b>	<b>Step 5: Predict System Emergence.</b> Did you predict two types of emergence in your system with a brief description of each in addition to functional interactions as per the project template?
<b>Points</b>	<b>Criteria</b>
3	<b>Complete:</b> Both types of emergence (intended and unintended) are mentioned. The functional interaction that led these different types of emergence is also provided.
2	<b>Partially Complete:</b> Both types of emergence are mentioned. The functional interaction that led to these emergence is not provided.
1	<b>Incomplete:</b> Only one type of emergence is mentioned and the functional interaction that led to this emergence is missing.
0	<b>Not attempted:</b> The project template is without work, in its original state. The project is copied from the samples.

## Step 6: Develop System Decomposition

<b>Prompt</b>	<b>Step 6: Develop System Decomposition.</b> Did you develop a decompositional view of your system including level zero and level one as per the project template?
<b>Points</b>	<b>Criteria</b>
3	<b>Complete:</b> Decompositional view containing both level zero and level one is included. Five to seven elements exist at level one.
2	<b>Partially Complete:</b> The decompositional view is created with level zero and level one. Level one has three to four elements.
1	<b>Incomplete:</b> An incomplete decompositional view missing key components is provided. Both level zero and level one are present but two or less elements total exist in the decompositional view.
0	<b>Not attempted:</b> The project template is without work, in its original state. The project is copied from the samples.