



**Biomimicry: Innovation Inspired by Nature**  
Life's Principles Challenge  
EVALUATE

**Assignment 5** (10% of final grade)

\*\*read assignment carefully!

**Instructions:**

- complete part 1 in your journal
- turn in part 2 in class October 16

As the final step in the design spiral, we need to learn to evaluate designs. How do human designs (products, systems, our built environment, etc.) measure up against Life's Principles? How would our designs be transformed if we were to incorporate more of Life's Principles?

**Part 1:**

- Select 3 Life's Principles from the "Life's Principles Butterfly". Please note: each sub-category counts as a principle.
- Find at least 3 examples of human designs that fail to meet the Life's Principles that you've chosen (**3 examples for each separate principle for a total of 9 examples**).
- Briefly, explain why each of the examples do NOT meet the corresponding Life's Principle.
- Use the "Life's Principle Checklist for the Design of Anything" to help guide this process.

**Part 2:**

- From each of the Life's Principles you've chosen above (3), select one human design example that you want to explore further. This will give you 3 human designs to explore.
- Develop concepts for how this example *could* meet Life's Principles by finding inspiration from nature to improve the design.
- Include your reasoning as to why it is important for these designs to achieve Life's Principles.
- Include visuals (sketches, pictures, paintings, models, etc.) to aid understanding of the original design and your new & improved design. How you decide to visually communicate your ideas is up to you. Be creative! Visuals are meant to encourage you to express your ideas in a new way. You will not be graded on your artistic ability but you will be graded on your ability to use visuals to aid communication.
- Be prepared to share a **5 minute (maximum) verbal presentation** of your findings. This will be a quick overview of your re-design process. In this presentation, you will be expected to explain how each human design failed to meet Life's Principles, where your natural inspiration came from that helped you to incorporate Life's Principles, as well as visuals to demonstrate your redesign concept.
- Presentation materials will be due in class (Oct. 16). Note: you are welcome to create a power point presentation, if this is your preference (it's not required).