**Perspectives in Quantitative Literacy and Life Sciences (WSU 2360)**

Syllabus

Credits: 3-6

**Course Description**: This course will address ...

**Text**:

**Grading**:

**Student Learning Outcomes**:

This general education course will meet the learning outcomes for Quantitative Literacy and Life Sciences. Specifically a quantitatively literate person should be able to:

1. Interpret mathematical models such as formulas, graphs, tables, and schematics, and draw inferences from them.
2. Represent mathematical information symbolically, visually, numerically, and verbally.
3. Use arithmetical, algebraic, geometric, and statistical methods to solve problems.
4. Estimate and check answers to mathematical problems in order to determine reasonableness, identify alternatives, and select optimal results.
5. Recognize that mathematical and statistical methods have limits.

A student also will demonstrate an understanding of the following characteristics of life:

1. Levels of organization: All life shares an organization that is based on molecules and cells and extends to organisms and ecosystems.
2. Metabolism and homeostasis: Living things obtain and use energy, and maintain homeostasis via organized chemical reactions known as metabolism.
3. Genetics and evolution: Shared genetic processes and evolution by natural selection are universal features of all life.
4. Ecological interactions: All organisms, including humans, interact with their environment and other living organisms.