Metropolitan State University

BIOL 106 : Biology of Women

A. Course Description

Credits: 4

Prerequisites: MATH 098 Introduction to Mathematical Thinking

OR

MATH 102 Mathematics of Sustainability or placement at or above College Algebra level on the University’s assessment test.

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: Goal 03 - Natural Science

This course is an introduction to the health and biology of women, focusing on the major health and disease concerns for women (heart disease, stroke, cancer, osteoporosis, menstruation, pregnancy, infertility) and the biological systems involved (cardiovascular, neurological, skeletal, endocrine, and reproductive etc.). No dissection is required. Lab included. Intended for general education students and students needing a one-semester introduction to human biology or the biology of women.


C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Demonstrate understanding of scientific facts and theories in biology.
2. Formulate and test hypotheses by performing laboratory experiments in biology, including the collection of data, statistical and graphical analysis of results, and an interpretation of its sources of error and uncertainty.
3. Communicate their experimental findings, analyses, and interpretations both orally and in writing.
4. Explain and apply knowledge of health and disease concerns for women (heart disease, stroke, cancer, osteoporosis, menstruation, pregnancy, infertility) and the biological systems involved cardiovascular, neurological, skeletal, endocrine, and reproductive etc.
5. Understand and apply knowledge of measurement and use of lab equipment and use that knowledge in the proper conduct and interpretation of laboratory investigations.
6. Demonstrate quantitative reasoning skills and competency with arithmetic and statistics at a level appropriate for graduates of bachelors degree programs.
7. Demonstrate mastery of the biology concepts and vocabulary necessary for success in a general biology course for biology majors, in programs that require a one-semester introduction to human biology or the biology of women, and for informed citizenship.

E. Learning Outcomes (MN Transfer Curriculum)

Goal 03 - Natural Science

1. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
2. Demonstrate understanding of scientific theories.
3. Communicate their experimental findings, analyses, and interpretations both orally and in writing.
4. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.
G. Special Information

Note: First day attendance required except by instructor permission.