HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE NUMBER & TITLE: BIOL 1610: Biology of Women
CREDITS: 3 (2 Lec / 1 Lab)
PREREQUISITES: None

CATALOG DESCRIPTION:
Study of the biological aspects of being a woman, from sex cell formation and sexual development through menopause and aging. Biological principles and scientific analysis of: menstruation and menopause; infertility; pregnancy and fetal development; genetics and biological sex differentiation. Students will also gain an historical perspective of women, the biology of gender differences, a multicultural perspective of women's health issues, including the importance of taking a responsible role in personal health care, pre-menstrual syndrome, birth control, sexually transmitted diseases, and cancers. Lab methods include scientific inquiry and analysis. Students will assess the strengths and limitations of scientific approaches toward understanding the biology of women and human behavior. Open to both women and men.

OUTLINE OF MAJOR CONTENT AREAS:
1. Scientific method of investigation
2. History and social context of women’s issues
3. Female Reproductive System
   A. Structure
   B. Function and Development
4. Male Reproductive System
   A. Structure
   B. Function
5. Endocrine system
   A. Endocrine Glands
   B. Hormones
6. Basis of Biological Differences
   A. Cells
   B. Chromosomes and Genes
   C. Cell Division (oogenesis)
   D. Sex Determination
   E. Chromosomal Disorders
   F. Normal Sex Differentiation
7. Puberty
7. Female Reproductive Cycle
   A. Normal Function
   B. Menstrual Problems and Treatment
   C. Ovarian cycle
8. Mammary Glands
   A. Structure
   B. Function
   C. Cancer

9. Gynecological Exam

10. Gynecological Difficulties
    A. Sexually Transmitted Diseases
    B. Cancers

11. Human Reproduction
    A. Fertilization
    B. Implantation
    C. Development
    D. Pregnancy
    E. Labor and Delivery
    F. Postpartum concerns

12. Problems of Fertility
    A. Infertility
    B. Assisted Reproductive Technology
    C. Contraception

13. Menopause

COURSE GOALS/OBJECTIVES/OUTCOMES:

1. Students will relate information about women’s biology published in popular media to course topics.
2. Students will evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.
3. Students will identify the basic steps of the scientific method and relates how experiments and observations contribute to our current knowledge of women’s biology.
4. Students will analyze and demonstrate understanding of biological theories and principles of reproductive anatomy, physiology, social, and health issues of females.
5. Students will communicate their research and/or current issues findings, analyses, and interpretations both orally and in writing.
6. Students will explain sexual and reproductive anatomy and physiology of women and men.
7. Students will analyze and explain women’s and men’s reproductive health diseases or issues; including infertility, cancers, sexually transmitted diseases and infections.
8. Students will examine their own attitudes, behaviors, concepts and beliefs regarding diversity and bigotry.
9. Students will identify and diagram the events of the ovarian cycle and describe the stages of pregnancy and childbirth.
10. Students will analyze the risk factors associated with breast cancer, methods of diagnosis and treatment.
11. Students will evaluate reproductive technology methods and procedures for treating infertility in females and males.

**MNTC GOALS AND COMPETENCIES MET:**
Goal 3 - Natural Science
Goal 7 - Human Diversity

**HCC CORE COMPETENCIES MET:**
Working Productively and Cooperatively
Communicating Clearly and Effectively
Thinking Creatively and Clearly
Social/Civic Responsibility
Practicing Cultural, Economic, and Environmental Sustainability

**STUDENT CONTRIBUTIONS:**
The student is expected to prepare for classes, attend classes, attend all lectures and labs, participate in all class activities, complete everything on time, and request assistance if needed.

**STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.**

**ADDITIONAL INFORMATION:**
This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or Student Services at the beginning of the semester.

_Curriculum Approval Date: February 5, 2018_

AASC APPROVAL DATE: February 21, 2018
REVIEW DATE: February 2023