



MASTER COURSE OUTLINE

A. BIOL 1040 Biology of Women

B. COURSE DESCRIPTION:

This course is designed to explore aspects of biology that apply to women. The course examines the following areas: male and female reproductive systems and reproductive cycles, sexually transmitted diseases, cancers and other diseases of the reproductive system, pregnancy, aging and nutrition. Women's health issues from a historical, cultural, and current perspective will also be explored.

MnTC (Goals 3/NS and 7A/HD); (3 Cr – 3 lect, 0 lab)

C. *Core Theme: Human Diversity **Discipline Area (if MnTC): Natural Sciences

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ☐ ILO 1: critical thinking (*Core Theme Goal 2*)
- ☒ ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ☐ ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ☐ ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Science and the scientific method
- Female/male reproductive anatomy
- Reproductive cycles
- Menstruation and-menstrual problems
- Reproductive tract infections
- Breast health
- Cancers and other diseases of the reproductive system
- Female sexuality
- Genetics and fetal development
- Pregnancy, birthing and complications during pregnancy
- Birth control and infertility
- Menopause and aging
- Nutrition and body appearance

F. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<u>MnTC Goal 3a</u>	demonstrate understanding of scientific theories.	1. complete an analysis of an experiment that will include identifying the independent, dependent, and control variables as well as the steps of the scientific method. 2. define and explain the principles of experimentally verifiable biological theories. 3. define and explain the pertinent vocabulary terms related to outcomes 1 and 2 (above) and the biology of women.
<u>MnTC 3c</u>	communicate their experimental findings, analyses and interpretations both orally and in writing.	1. research and report on an issue or health concern relating to women's biology. This would include considering societal, health and scientific perspectives. 2. communicate their experimental findings and analyses in oral and written formats.
<u>MnTC 3d</u>	evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.	1. analyze scientific findings relevant to women's biology as part of the issue report in MnTC Goal 3c. 2. include an explanation of the findings, the sources of error and/or bias or uncertainty in the evidence evaluated in 1 above. 3. include an analysis of the evidence and make recommendations on public policies regarding the health concern or issue reported above (see 3c).
<u>MnTC Goal 7A b</u>	demonstrate an awareness of the individual and institutional dynamics of unequal power relations between groups in contemporary society.	1. explore opinions and current research on gender-based and race-based biology. 2. use the knowledge of human biology (especially genetics and gender-based biology) to critically analyze cultural and commonly held beliefs about sex roles, gender differences, and race. 3. identify, analyze, and respond to female biology issues. 4. correlate and evaluate published information about women's biology to course topics.
<u>MnTC Goal 7A c</u>	analyze their own attitudes, behaviors, concepts and beliefs regarding diversity, racism, and bigotry.	1. delineate their beliefs and opinions regarding gender differences, sexual diversity, and the biological

		basis for race. 2. critically analyze their initial beliefs and opinions (above) based on information learned in the course.
<u>MnTC Goal 7A e</u>	demonstrate communication skills necessary for living and working effectively in a society with great population diversity.	1. explain, compare and contrast varying multicultural and gender perspectives on current health issues important to women. 2. consider how these varying perspectives can influence research, outreach efforts, and public perceptions of the issue at stake.
<u>CS</u>	demonstrate an understanding of terminology relating to female anatomy and physiology.	1. define and describe the terminology relating to female anatomy and physiology.
<u>CS</u>	read case studies and/or journal articles relating to women's health and issues in women's health.	1. answer questions and/or participate in discussions that pertain to the case studies and/or journal articles that focus on women's health and issues in women's health.
<u>CS</u>	demonstrate an understanding of terminology relating to issues in women's health such as cancer, infertility, birth control, menopause, dieting disorders, reproductive tract infections, sexuality, pregnancy, and complications during pregnancy.	1. define and describe the terminology relating to issues in women's health such as cancer, infertility, birth control, menopause, dieting disorders, reproductive tract infections, sexuality, pregnancy, and complications during pregnancy.

G. SPECIAL 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 Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

H. COURSE CODING INFORMATION:

Course Code C/Class Maximum 48; Letter Grade

Revision date: 04/04/11; 01/31/18; 09/06/22; 04/02/24

AASC Approval date: 03/06/18; 09/20/22; 05/07/24

*These five MnTC Goals have been identified as Riverland Community College Core Themes. Every course in the Riverland Community College curriculum shall meet outcomes from one of these themes.

**These five MnTC Goals have been identified as Riverland Community College Disciplines. Riverland's MnTC courses also shall meet outcomes from a Discipline Area.

NOTE: The Minnesota Transfer Curriculum "10 Goal Areas of Emphasis" are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

*Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

**Riverland Community College Discipline Areas	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6