COURSE OUTLINE

BIOL 117 Human Reproduction

Prepared By: Ron Tavernier
**A. TITLE:** Human Reproduction

**B. COURSE NUMBER:** BIOL 117

**C. CREDIT HOURS:** 3

**D. WRITING INTENSIVE COURSE:**

**E. COURSE LENGTH:** 15 weeks

**F. SEMESTER(S) OFFERED:** Spring

**G. HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
3 hours lecture per week

**H. CATALOG DESCRIPTION:** This course will discuss human reproduction from a biological point of view. Topics will include anatomy, reproductive physiology, genetics, conception, embryology, pregnancy and parturition, and disease states. Consideration will be given to medical, psychological, sociological, and legal and ethical perspectives.

**I. PRE-REQUISITES/CO-COURSES:** None

**J. GOALS (STUDENT LEARNING OUTCOMES):**
By the end of this course, the student will be able to:

<table>
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<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tr>
<td>1. Describe the cell cycle, and how sexual reproduction passes chromosomes from parents to offspring. Describe chromosomal abnormalities that can occur.</td>
<td>3. Professional competence</td>
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<td>2. Explain the fundamental principles of Mendelian genetics and the transmission of genes from parents to offspring. Describe the structure and function of DNA, and the processes of DNA replication, transcription, and translation. Discuss the types of prenatal genetic tests and the advantages and dangers of each.</td>
<td>2. Critical thinking 3. Professional competence</td>
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<td>3. Discuss the transmission, symptoms, consequences and treatment of common sexually transmitted diseases. Discuss common methods of birth control and infertility treatment.</td>
<td>3. Professional competence</td>
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<td>4. Describe normal male and female reproductive anatomy. List the major reproductive hormones and their functions throughout the human life cycle. Explain the series of biological events that commence with conception and lead to parturition. List the four stages of sexual response, and describe the characteristics of each.</td>
<td>2. Critical thinking 3. Professional competence</td>
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<td>5. Discuss issues relating to ethical issues related to</td>
<td>2. Critical thinking</td>
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human reproduction with consideration of legal, psychological, and sociological perspectives.


L. **REFERENCES:** None

M. **EQUIPMENT:**

N. **GRADING METHOD:** A - F

O. **MEASUREMENT CRITERIA/METHODS:**
   - Quizzes
   - Exams
   - Assignments
   - Class participation

P. **DETAILED COURSE OUTLINE:**

   I. Chromosomes and Chromosomal Inheritance
   
   II. Genes, Medical Genetics, and Genetic Counseling
   
   III. DNA and Molecular Genetics
   
   IV. Sexually Transmitted Diseases
   
   V. Reproductive Hormones and Sexual maturation
   
   VI. Human Reproductive Systems
   
   VII. Birth Control and Infertility
   
   VIII. Human Sexual Response
   
   IX. Fertilization, Development, and Birth

Q. **LABORATORY OUTLINE:** None