

**INTERAMERICAN UNIVERSITY OF PUERTO RICO
METROPOLITAN CAMPUS
SCIENCE AND TECHNOLOGY FACULTY
CARMEN TORRES DE TIBURCIO NURSING DEPARTMENT**

SYLLABUS

I. GENERAL INFORMATION

Course Title	: Fundamentals of Maternal-Neonatal Care
Code and Number	: NURS 2141
Credits	: Three (3)
Academic Term	:
Instructor	:
Office Location and Hours	:
Office Telephone	: (787) 250-1912 ext. 2202
E-mail	:

II. DESCRIPTION

Description of the evolution of maternal-neonatal nursing integrating the principles of the conceptual framework. Discussion of anatomical, biochemical, physiopsycological and pathological changes that affect the integral functioning of the client, before, during and after childbirth, including the normal newborn during the early neonatal stage. Use of the nursing process in the study of the appropriate changes in the stages and health dysfunctions. Prerequisite: NURS 1231. Corequisites: NURS 2142, 2233.

III. OBJECTIVES

TERMINAL OBJECTIVES

1. Demonstrate responsibility and commitment with their own development and that to the profession. (AASN)
2. Apply humanistic care in the nursing practice to promote protection, optimization, and the preservation of human dignity. (BSN)

GENERAL OBJECTIVES

It is expected that, at the end of the course, the student will be able to:

1. Examine anatomical, physiological, pathological, and biochemical changes that may affect the integral functioning of the neonatal maternal client before, during and after delivery.
2. Identify methods to reduce the risk of developing complications and/or dysfunctions in neonatal maternal customer health patterns related to existing treatment, procedure, or conditions by integrating the conceptual framework.

3. Explain the physiological changes and high-risk delivery in the biological, sociocultural, psychological, and spiritual subsystems of the neonatal maternal client and his family.
4. It incorporates the concepts and principles of nursing processes into the humanistic care of the neonatal maternal client.

IV. CONTENT

A. UNIT I INTRODUCTION TO MATERNITY

1. 21st Century Maternity and Women's Health Nursing
 - a. Advances in the care of Women and Infants
 - b. Efforts to Reduce Health Disparities
 - c. Contemporary Issues and Trends
 - i. Healthy People 2030
 - ii. Interprofessional Education and Care Management
 - iii. Problems with the U.S. Health Care System
 - iv. Health Literacy
 - d. Trends in Fertility and birth rate
 - e. Trends in Nursing Practice
 - i. Evidence-Based Practice

B. UNIT II WOMEN'S HEALTH

1. Assessment and Health Promotion
 - a. Female Reproductive System
 - b. Menstruation and Menopause
 - c. Health Risks to Women
 - d. Health Assessment
2. Violence against Woman
 - a. Intimate Partner Violence
 - b. Sex Trafficking
3. Reproductive System Concerns
 - a. Common Menstrual Disorders
4. Sexually Transmitted (ST) and Other Infections
 - a. ST Bacterial infections
 - i. Chlamydia
 - ii. Gonorrhea
 - b. ST Viral Infection
 - i. Human Papillomavirus
 - ii. Group B Streptococcus

- iii. Human Immunodeficiency Virus (HIV)
- c. Vaginal Infections
 - i. Bacterial Vaginosis
 - ii. Candidiasis
- d. TORCH infections
- 5. Contraception and Abortion
- 6. Infertility
- 7. Structural Disorders and Neoplasms of the Reproductive System
 - a. Malignant neoplasms

C. UNIT III. PREGNANCY

- 1. Conception and Fetal Development
 - a. Factors influencing fetal grow and development
- 2. Anatomy and Physiology of Pregnancy
 - a. Adaptation to pregnancy
 - b. Diagnosis of pregnancy
 - i. Pregnancy test
 - ii. Signs of Pregnancy: Probable, presumptive, positive signs
- 3. Nursing Care of Family during Pregnancy
 - a. Diagnosis of Pregnancy
 - i. Estimating Date of Birth
 - b. Adaptation to pregnancy
 - c. Care management
 - i. Fetal assessment
 - d. Variations in Prenatal Care
 - i. Physiological, emotional and cognitive change
 - ii. Cultural Influences
- 4. Maternal and Fetal Nutrition
 - a. Nutrition during Pregnancy
 - b. Maternal nutritional deficiencies
 - i. Due to pre pregnancy nutrition/weight, finances, culture
 - ii. Nutritional Care & Teaching
 - Weight gain 25-35 lb (300 calories or more /day)
 - Well-balanced diet

D. UNIT IV COMPLICATIONS OF PREGNANCY

1. Assessment of High-Risk Pregnancy
2. Health disorders
 - a. Hypertensive
 - b. Hemorrhagic
 - c. Endocrine and Metabolic
 - d. Physiological
 - e. Mental Health and Substance Abuse

E. UNIT V CHILDBIRTH

1. Labor and Birth Process
 - a. Factors affecting Labor
 - b. Process of Labor
2. Maximizing Comfort for the Laboring Woman
 - a. Nonpharmacological Pain Management
 - b. Pharmacological Pain Management
3. Fetal Assessment during Labor
 - a. Basis for Monitoring
 - b. Fetal Heart Rate Patterns
 - i. Electronic Fetal Monitoring Pattern
 - c. Client and Family Teaching
 - d. Documentation
4. Nursing Care of the Family during Labor and Birth
 - a. 1st, 2nd, 3rd, 4th Stage of Labor

F. UNIT V POSTPARTUM

1. Postpartum Physiologic Changes
 - a. BUBBLE-HE assessment
2. Nursing Care of the Family during the Postpartum Period
 - a. Influences in assuming maternal role
 - b. Acceptance of pregnancy body image
3. Transition to Parenthood
4. Postpartum Complications
 - a. Depression
 - b. Hemorrhage
 - c. Infections
 - d. Coagulopathies
 - e. Venous Thromboembolic Disorders

G. UNIT VII THE NEWBORN

1. Physiologic and Behavioral Adaptations of the Newborn
2. Nursing Care of the Newborn and Family
 - a. Care Management: Birth Through the First 2 hours
 - i. Immediate Care after Birth
 - ii. APGAR Score and Initial Assessment
 - iii. Psychological Examination
 - b. Care Management: From 2 Hours After Birth Until Discharge
 - i. Laboratory and Diagnostic Tests
3. Newborn Nutrition and Feeding
 - a. Recommended Infant Nutrition
 - i. Benefits of Breastfeeding
 - b. Nutrient Needs

H. UNIT VI NEWBORN COMPLICATIONS

1. Nursing Care of the High-Risk Newborn and Family
2. Acquired Problems of the Newborn
 - a. Birth Trauma
 - b. Neonatal Infections
 - c. Substance Abuse
3. Hemolytic Disorders and Congenital Anomalies
 - a. Hyperbilirubinemia

V. LEARNING ACTIVITIES

1. Conferences
2. Assignments
3. Group discussions
4. Case scenarios
5. Modules

VI. EVALUATION

Criteria	Points	Percent
3 Partial Exams	300	45
Final Exam	100	20
Assignments / 2 Quiz	100	20
ATI	100	5
Contact Hours	<u>100</u>	<u>10</u>
Total	700	100

IX.

**VII.
VIII.**

VIII. SPECIAL NOTES

A. Auxiliary services or special needs

All students who require auxiliary services or special assistance must request these at the beginning of the course or as soon as they know that they need them, through the proper registry, in the Office of the Coordinator of Student Services with Disabilities in the Orientation Program with Dr. María de los A. Cabello or email mcabello@metro.inter.edu.

B. Honesty, fraud, and plagiarism

Dishonesty, fraud, plagiarism, and any other inappropriate conduct in relation to academic work constitute major violations sanctioned by the General Student Regulations. Major offences, as required by the General Student Regulations, may result in the suspension of the University for a defined period of more than one year or the permanent expulsion of the University, among other sanctions.

C. Use of electronic devices

Cellular telephones and any other electronic device that could interrupt the teaching and learning processes or alter the environment leading to academic excellence will be deactivated. Any urgent situation will be dealt with, as appropriate. The handling of electronic devices that allow students to access, store or send data during evaluations or examinations is prohibited.

D. Compliance with the provisions of Title IX

The Federal Higher Education Act, as amended, prohibits discrimination because of sex in any academic, educational, extracurricular, and athletic activity or in any other program or function, sponsored or controlled by a higher education institution, whether or not it is conducted within or outside the property of the institution if the institution receives federal funds.

In harmony with the current federal regulation, in our academic unit an Assistant Coordinator of Title IX has been designated to offer assistance and orientation in relation to any alleged incident constituting discrimination because of sex or gender, sexual harassment or sexual aggression. The Assistant Coordinator, Mr. George Rivera Rodríguez, at 787 250-1912, extension 2262, or email griverar@metro.inter.edu

The Normative Document titled Norms and Procedures to Deal with Alleged Violations of the Provisions of Title IX is the document that contains the institutional rules to direct any complaint that appears to be this type of allegation. This document is available in the Web site of Inter American University of Puerto Rico (www.inter.edu).

IX. EDUCATIVE RESOURCES

Textbook

Lowdermilk, D.L., Perry, S.E. (2020). *Maternity & Women's Health Care* (12th ed.)

Mosby.

X. REFERENCES

Electronic Resources:

Pregnancy CDC

<https://www.cdc.gov/pregnancy/index.html>

World Health Organization Guidelines on maternal, newborn, child, and adolescent health

<https://www.who.int/publications/i/item/WHO-MCA-17.10>

Maternal, Infant and Child Health- Health People 2030

<https://health.gov/healthypeople/objectives-and-data/browse-objectives/pregnancy-and-childbirth>

Guidelines & Recommendations- Breastfeeding CDC

<https://www.cdc.gov/breastfeeding/recommendations>

Revised: June 2022 OCT2022/MRV