

**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, physiopathological 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

**END OF PROGRAM STUDENT LEARNING OUTCOMES
(GRADUATE PROFILE OF COMPETENCIES)**

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

GENERAL OBJECTIVES (COURSE STUDENT LEARNING OUTCOMES)

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 growth 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, and 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, and culture.
 - ii. Nutritional Care & Teaching.
 - Weight gain of 25-35 lbs. (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 a 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. Physical 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

I. INTEGRATION OF SCIENCES

1. Anatomical, biochemical, physiopathological, and pathological changes that affect the integral functioning of the client: Female reproductive cycle, pregnancy; fetal physiology, changes in biochemical parameters, fluid and electrolyte homeostasis, acid-base changes, carbohydrate metabolism, calcium homeostasis, lipoprotein metabolism, and endocrine changes.
2. The microbiome: changes in the composition of the microbiota in a variety of body sites, including the gut, vagina, oral cavity, and placenta, during pregnancy, fetal development, and early childhood.
3. Microbial changes during pregnancy, childbirth, infancy, and maternal immunological contributions to the infant.

IV. LEARNING ACTIVITIES

1. Conferences
2. Assignments
3. Groups discussions
4. Case Scenarios
5. Modules
6. Cultural Case Studies

V. EVALUATION

Criteria	Scale	% Final Grade
3 partials exams	300	45
Final Exam	100	20
Assignments / 2 Short Test	100	20
ATI	100	5
Contact Hours	<u>100</u>	<u>10</u>
Total	700	100

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 Services to Students with Disabilities, Dr. María de los Angeles Cabello, located in the Counseling Program, Room 419, on the fourth floor of the John Will Harris Building, 787-250-1912, extension 2306.

B. Honesty, fraud, and plagiarism

Dishonesty, fraud, plagiarism, and other inappropriate conduct with academic work constitute major violations sanctioned by the General Student Regulations. Major offenses, 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 permanent expulsion from 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 any other program or function sponsored or controlled by a higher education institution, whether 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 a document that contains the institutional rules to direct any complaint that appears to be this type of allegation. This document is available on the Web site of the Interamerican University of Puerto Rico (www.inter.edu).

X. EDUCATIVE RESOURCES

Textbooks:

Lowdermilk, Cashion, Perry & Alden. (2019). *Maternity & Women's Health Care*. (12th ed.) Mosby. ISBN: 978-0275972264.

IX. BIBLIOGRAPHY (OR REFERENCES)

Lowdermilk, Cashion, Perry & Alden. (2019). *Study Guide for Maternity & Women's Health Care*. (12th ed.) Mosby. ISBN: 978-0323555265.

Engelkirk & Duben-Engelkirk (2018). *Burton's Microbiology for the Health Sciences*. 11th ed. ISBN 1496380460 / 978-0323528900. Jones & Bartlett Learning.

Patton & Belll (2022). *Anatomy and Physiology Laboratory Manual and E-Labs*. 11th ed. ISBN 0323791069 / 978-0323791069. Elsevier.

Patton & Thibodeau (2018). *Anatomy & Physiology*. 10th ed. ISBN 0323528902 / 978-0323528900. Mosby.

Silvestri & Silvestri (2022). *Saunders Comprehensive Review NCLEX-RN Examination*. 9th ed. ISBN 0323795307 / 978-0323795302. Saunders.

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>

Focus on National Institute on Minority Health and Health Disparities (NIMHD) <http://www.nimhd.nih.gov/>

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