



UNICAMILLUS

## DEGREE IN MIDWIFERY

### **Integrated Teaching: MATERNAL CHILDCARE OBSTETRICS**

SSD: MED/03, MED/38, MED40, MED/47, M-PSI/08

Credits: 9

Responsible Professor: Veronica Ricciuto

E-mail: [veronica.ricciuto@unicamillus.org](mailto:veronica.ricciuto@unicamillus.org)

MODULES: Obstetrical-gynaecological nursing sciences

SSD: MED/47

Number of Credits: 2

Professor: Maria Bordoni

CFU: 1

E-mail: [maria.bordoni@unicamillus.org](mailto:maria.bordoni@unicamillus.org)

Professor: Veronica Ricciuto

CFU: 1

E-mail: [veronica.ricciuto@unicamillus.org](mailto:veronica.ricciuto@unicamillus.org)

MODULE: Medical Genetics

SSD: MED/03

Number of Credits: 1

Professor: Cinzia Ciccacci

E-mail: [cinzia.ciccacci@unicamillus.org](mailto:cinzia.ciccacci@unicamillus.org)

MODULO: Gynaecology and Obstetrics

SSD: MED/40

Number of Credits: 2

Professor: Giuseppina Liuzzi

E-mail: [giuseppina.liuzzi@unicamillus.org](mailto:giuseppina.liuzzi@unicamillus.org)

MODULO: General and Specialised Paediatrics

SSD: MED/38

Number of Credits: 2

Professor: Arianna De Martino

E-mail: [arianna.demartino@unicamillus.org](mailto:arianna.demartino@unicamillus.org)

MODULO: Clinical Psychology

SSD: M-PSI/03

Number of Credits: 2

Professor: Donatella Marazziti

E-mail: [donatella.marazziti@unicamillus.org](mailto:donatella.marazziti@unicamillus.org)

## **PREREQUISITES**

The pre-requisites for the students are knowledge of: anatomy and physiology of the female reproductive system; physiological changes during pregnancy.

## **LEARNING OBJECTIVES**

At the end of this course, students will be able to describe the main affections of neonatal age, and childhood, explaining their prevention, diagnosis, and treatment. Moreover, the students will



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be able to describe the main infections during pregnancy, with particular reference: to the prevention of the same, to the interpretation of the laboratory results and to the possible diagnostic-therapeutic pathways and the main concepts on the inheritance of genetic diseases and basic elements of prenatal and postnatal diagnosis.

By the end of this course learners will be able to describe the scope of perioperative midwifery practice and the prevention, diagnosis, and treatment of the main perineal disorders in childbearing age and menopause.

Finally, students will achieve ability to use cognitive and intervention tools aimed at prevention, diagnosis and rehabilitation and psychological support activities and they will acquire advanced level skills to establish relevant characteristics of people, families, and groups.

## **LEARNING OUTCOMES**

The specific learning outcomes of the program are coherent with the general provisions of the Bologna Process and the specific provisions of EC Directive 2005/36/EC. They lie within the European Qualifications Framework (Dublin Descriptors) as follows.

At the end of this teaching, students will be able to:

### Knowledge and Understanding

- describe the characteristics of the anatomy and function of pelvic floor
- describe the methods for the prevention, diagnosis, and treatment of the main perineal disorders
- describe the importance of breathing techniques for the prevention and treatment of the perineovaginal disorders
- describe the procedures of Gynaecological and Obstetrics Emergencies management in perioperative practice
- explain the main inheritance models of non mendelian disorders: mitochondrial diseases, multifactorial diseases
- describe the main biological mechanisms that cause hereditary diseases
- describe genetic counselling, prenatal and postnatal testing
- explain the major kinds of genetic testing and their proper use
- describe the importance of infections in pregnancy and in the pre and perinatal period
- explain the methods of prevention, diagnosis, and possible treatment regarding the main infections during pregnancy
- describe information on bacterial, viral, and fungal infections
- describe information on vaccinations during pregnancy
- describe all problems related to neonatal age and childhood from a preventive and diagnostic point of view

### Applying Knowledge and Understanding

- apply the principles of midwifery to selected cases, problems, and a variable range of situations



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-use the tools, methodologies language and conventions of midwifery to test and communicate ideas and explanations

### Communication Skills

-present the topics orally in an organized and consistent manner  
-use a proper scientific language coherent with the topic of discussion

### Making Judgements

-recognize the importance of an in-depth knowledge of the topics consistent with a proper education  
-identify the importance of a proper theoretical knowledge of the topic in the clinical practice

## **COURSE SYLLABUS**

### MIDWIFERY

Gynaecological and Obstetrics Emergencies management in theatre

Anatomy and function of the pelvic floor

Pelvic floor disorders: urinary incontinence, prolapse, sexual dysfunction

Prevention and treatment of cystitis

Breathing techniques for prevention and treatment of some perineovaginal disorders

Pelvic floor exercises

### GENETICS

Genomic Imprinting

Mitochondrial inheritance: mitochondrial DNA, pattern of inheritance

Multifactorial inheritance: polymorphisms, susceptibility genes, gene-environment interaction, association studies

Pharmacogenomics and Personalised Medicine

Genetic tests and Counselling. Prenatal and postnatal testing

Diagnosis of genetic diseases: some examples

Epigenetics and nutrigenetics. Outlines

### INFECTIOUS DISEASES

Importance of infections during pregnancy

Infections of the foetus: pathogenesis, efficiency of transmission of microorganism from mother to foetus, diagnosis of infection in the pregnant woman, diagnosis of infection in the newborn infant

Obstetric factors associated with infections in the foetus and newborn infant



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Bacterial infections in pregnancy  
Viral infections  
Protozoan and fungal infections in pregnancy  
PROM and infections  
Neonatal sepsis  
Benefit and risks of human milk  
Clinical pharmacology of anti-infective drugs in pregnancy  
Vaccinations in pregnancy

### PEDIATRICS

Prenatal care for the mother and baby. Congenital and connatal infections. The newborn in the delivery room: assistance and routine. Hospitalization with the mother: rooming in and breastfeeding. The postnatal course and discharge. Baby care at home. Neonatal growth. Practical neonatal pathology (jaundice, hypoglycemia, neonatal growth, the low-weight infant, the child of a diabetic mother). The premature newborn and the main pathologies. Notes on complementary nutrition. Vaccinations. Maternal immunization. The sleep of the newborn. Main pediatric diseases (bronchiolitis, cystic fibrosis, celiac disease). Newborn Screenings.

### PSYCHOLOGY

Historical and epistemological foundations of psychology  
Developmental psychology in the life cycle/Evolutionary psychopathology  
Psychopathology and cognitive-behavioural clinical psychology  
Integrated psychophysiology of human behaviour  
Applied neuropsychology  
Genetics, neuropsychopharmacology and clinical psychiatry  
Social and communication psychology  
Psychology of rehabilitation and psychosocial interventions

## **COURSE STRUCTURE**

The course consists of 126 hours of classroom teaching, composed of frontal lessons, working groups and interactive learning activities.

## **COURSE GRADE DETERMINATION**

The final exam will be oral and it will be communicated at the beginning of the lessons together the didactic materials necessary to the preparation for the final evaluation.



The oral exam will focus on the program and will assess the student's knowledge and mastery of specific scientific language.

The evaluation criteria considered will be: acquired knowledge, independent judgment, communication skills and learning skills. The exams will be assessed according to the following criteria:

<b>&lt; 18 Fail</b>	The candidate possesses an inadequate knowledge of the topic, makes significant errors in applying theoretical concepts, and shows weak presentation skills.
<b>18-20</b>	The candidate possesses a barely adequate and only superficial knowledge of topic, limited presentation skills, and only an inconsistent ability to apply theoretical concepts.
<b>21-23:</b>	The candidate possesses an adequate, but not in-depth, knowledge of the topic, a partial ability to apply theoretical concepts, and acceptable presentation skills.
<b>24-26</b>	The candidate possesses a fair knowledge of the topic, a reasonable ability to apply theoretical concepts correctly and present ideas clearly.
<b>27-29</b>	The candidate possesses an in-depth knowledge of the topic, a sound ability to apply theoretical concepts, good analytical skills, clear argumentative clarity and an ability to synthesize.
<b>30-30L</b>	The candidate possesses an in-depth knowledge of the topic, an outstanding ability to apply theoretical concepts, a high level of argumentative clarity, as well as excellent analytical skills, and a well-developed ability to synthesize and establish interdisciplinary connections.

## OPTIONAL ACTIVITIES

Students can request optional workshops to deepen some specific topics.

## READING MATERIALS

- Ragusa, Crescini; Urgenze ed Emergenze in Sala Parto; Piccin; October 2016
- Infezioni in gravidanza di Nicola Rizzo e Gianluigi Pilu 2012
- Elementi Essenziali di Pediatria per i corsi di laurea triennali - G.V. Zuccotti – Edizioni Esculapio
- Fisiologia della nascita. R. Spandrio, A. Regalia, G. Bestetti. Carocci Faber editore
- Klaus - Fanaroff' s. Cure del Neonato ad Alto Rischio. Editore Delfino 2020
- Didactic material (lessons in pdf, papers, etc.) delivered by the Professors