BSc in Nursing

Academic year 2026/2027

INTEGRATED COURSE (I.C.): MEDICINE AND SPECIALISED SURGERY
NUMBER OF CFU (ECTS credits): 7
SSD (Academic Discipline Code): MEDS-09/A, MEDS-05/A, MEDS-14/C, MEDS-06/A, MEDS-10/A, MEDS-10/B

COORDINATOR OF THE I.C.: RICCARDO CALAFIORE
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ONCOLOGY
NUMBER OF CFU (ECTS credits): 1
SSD (Academic Discipline Code): MEDS-09/A
LECTURER: GIUSEPPE DI LORENZO
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INTERNAL MEDICINE – SPECIALIST MEDICINE
NUMBER OF CFU (ECTS credits): 1
SSD (Academic Discipline Code): MEDS-05/A
LECTURER: RICCARDO CALAFIORE
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UROLOGY
NUMBER OF CFU (ECTS credits): 1
SSD (Academic Discipline Code): MEDS-14/C
LECTURER: PAVACCI VALDEMARO GIANMARIA
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GENERAL SURGERY – SPECIALIZED SURGERY
NUMBER OF CFU (ECTS credits): 2
SSD (Academic Discipline Code): MEDS-06/A
LECTURER: DOMENICO TRIPODI
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GASTROENTEROLOGY
NUMBER OF CFU (ECTS credits): 1
SSD (Academic Discipline Code): MEDS-10/A
LECTURER: GIANPIERO D'OFFIZI
e-mail:

INFECTIOUS DISEASE

NUMBER OF CFU (ECTS credits): 1

SSD (Academic Discipline Code): MEDS-10/B

LECTURER: AMBROGIO CURTOLO

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PREREQUISITE COURSES

- Not applicable — no formal prerequisite courses are set by the Degree Programme Regulations for this teaching.

PREREQUISITES

- Knowledge of the basic notions of human anatomy, physiology and pathology of the main diseases of medical interest.
- Basic knowledge on the anatomy and physiopathology of medical diseases and medical semiotics.
- Knowledge of the general principles of medical terminology.

LEARNING OBJECTIVES

Aim of the Teaching is:

- Provide knowledge on the main surgical pathologies and the main surgical techniques applied in elective and emergency contexts
- Provide knowledge on the possible complications and consequences of the main surgical procedures and on the pre- and post-operative management of surgical patients
- to provide the students with in-depth knowledge of main medical diseases and the related physiopathology. At the end of the course the student will be able to recognize medical diseases and understand the principle that guide the treatment.
- provide students with knowledge on developing expertise and good knowledge in the field of internal medicine nursing. In particular, she/he will develop advanced skills for nursing intervention in various disorders pertaining to Internal Medicine.
- provide students with knowledge on the predisposing conditions and the clinical characteristics of the various neoplastic diseases in order to define a diagnostic procedure. The knowledge of prognostic and predictive factors linked to the characteristics related to the neoplasm and to the patient, will help to understand the strategy for the management of different tumors, taking into account the therapeutic options available in the various phases of the disease and their side effects in a risk/benefit assessment perspective in order to achieve useful skills for collaboration with other health figures in multidisciplinary professional teams.
- provide students with knowledge of main infectious diseases with specific regard to the basic principles of epidemiology, pathogenesis, clinical diagnosis and therapy, as well as primary and secondary prevention tools.

- provide students with knowledge on physiopathological and diagnostic bases of pathologies of greater interest and internal frequency are essential goals. In this context the teaching of nursing practice and of the best and optimal approach to the patient with multi-factoriality of risk and multi-pathologies will be decisive.
- main concepts of anatomy, physiology and pathophysiology of the male urinary and genital apparatus
- devices of common use in urological patients and describe the assistance given to the person carrying urostomies, urinary derivations, catheters and urological drainages.
- diagnostic reasoning and care planning, referring to scientific evidence, in relation to nursing assistance in the pre-intra-post-operative phases of the main urological interventions

EXPECTED LEARNING OUTCOMES

DD1: Knowledge and Understanding

At the end of the course, the student will be able to:

- Recognize the main surgical conditions in elective and emergency contexts
- Be familiar with the main surgical techniques used in elective and emergency situations
- Be familiar with how to manage surgical patients in the pre- and post-operative periods
- Recognize the main signs and symptoms related to the digestive system/apparatus;
- Knowing the main pathologies connected with the gastroenterological system and also understand and recognize the clinical and therapeutic problems;
- To be able to define the symptoms in situations of clinical urgency, which require the doctor's intervention;
- Knowing the main diagnostic procedures, either invasive or non-invasive, in gastroenterology;
- Enhance patient care as well as collaborate with the medical specialists by providing the diagnostic and therapeutic gastroenterological procedures.
- Know the classification of the main bacterial, viral and protozoan infections
- Describe the epidemiological principles of diseases, with special attention to the different geographical contexts
- Explain infection transmission mechanisms
- Understand the diagnostics for pathogens and immune response
- Know and describe the main therapeutic classes for prevention and treatment
- Describe isolation and infection control measures
- Know all the main phases of the pathophysiology of the major and most frequent diseases of Internal Medicine.
- Know the criteria of clinical diagnosis of the major and most frequent diseases of Internal Medicine.
- Know the criteria for instrumental diagnosis of the major and most frequent diseases of Internal Medicine.

- Know the criteria for laboratory diagnosis of the major and most frequent diseases of Internal Medicine.
- Know the pharmacological and therapeutic applications of the major and most frequent diseases of Internal Medicine.
- Know the combined nursing and medical management paths in the management of patients suffering from internal pathology.
- Know the main concepts of anatomy, physiology and pathophysiology of the male urinary and genital apparatus
- Knowing how to recognize the main male urological and genital pathologies, with particular attention to emergencies / emergencies
- Know the main urological surgical procedures and, consequently, have notions on pre-intra-post-operative nursing management
- Know the devices of common use in urological patients (urostomies, catheters, drainages etc)
- knowledge and understanding in this field of study that represents a post-secondary level and an aptitude to understand not only advanced textbooks, but also some cutting-edge themes in their own field of studies dealt with during the entire educational path, along with the more advanced research protocols.

DD2: Applying Knowledge and Understanding

At the end of the course the student will be able to:

- Describe the fundamental aspects of the pathological conditions envisaged by the program, in relation to the different clinical-assistance pathways.
- Make use of the acquired knowledge for further educational approaches in the gastroenterological field.
- Apply their knowledge and understanding in order to demonstrate a professional approach to their work, and possess adequate skills to both devise and support arguments and to solve problems in their field of study. In detail, students must be able to apply their knowledge with a scientific and experimental method to the study of oncological pathologies and to the proper application to working procedures and experimental protocols in full autonomy and in collaboration with the medical staff.
- In-depth study of aspects related to his/her future professional activity.
- Use the knowledge acquired for the in-depth study of aspects relating to the specific field to which the student will dedicate himself in the professional activity.
- recognize the main internal medicine-related disorders and manage them from a nursing care point of view in the hospital environment, long-term care and home care.

DD3: Making Judgements

At the end of the course the student must be able to:

- Assess the condition of a patient admitted to an Internal Medicine ward.
- Collect and interpret data deemed useful for integrating and applying knowledge to clinical reasoning related to the approach to the patient diagnosed with medical pathologies, and their complications,

formulating an independent judgment. This will make them independent even from the point of critical judgment on social, scientific or ethical issues related to them.

- Recognize the main urological pathologies and manage them, from a nursing point of view, in the hospital environment
- To make evaluations and demonstrate competence related to the arguments studied.

DD4: Communication Skills

At the end of the course the student must be able to:

- Communicate with the patient affected by diseases that require medical intervention, with adequate and appropriate knowledge.
- To use an accurate and proper scientific terminology.
- support specialist and patient by using a specific scientific language and understand the health information privacy law.
- At the end of the course, students should have acquired an independent critical judgment especially in labs and tests interpretation, in order to be able to report information, ideas and solutions to Colleagues, in a multidisciplinary fashion.
- Know and correctly use the specific scientific terminology for infectious diseases;
- Have knowledge of the procedures to inform patients, contacts on transmission risks; as well as health authorities for mandatory notifications of infectious diseases.

DD5: Learning Skills

The student will have acquired skills and methods of learning suitable for deepening and improving their competencies in the field of medicine and specialised surgery, also through consulting scientific literature.

SYLLABUS

Syllabus ONCOLOGY

- Epidemiology of cancer and prevention
- Prognostic and predictive risk factors
- Carcinogenesis, cancer growth and proliferation, cancer immune tolerance
- Assessment and investigations of patients with cancer, including history, physical examination, laboratory and imaging techniques. Performance Status Evaluation (Karnofsky and ECOG scores)
- Tumour staging
- Principles of therapy of oncological diseases and clinical effects of therapeutic approaches used: Surgery, radiotherapy, cytotoxic approach (neoajuvant, adjuvant, metastatic and palliatives approaches), target therapy and immune anti-cancer agents. Drug resistance
- Natural history of the most frequent tumours: breast, lung, prostate,
- Management of medical emergencies and complications resulting from cancer or its treatment

- Basis of clinical research

Syllabus INTERNAL MEDICINE – SPECIALIST MEDICINE

- - Main clinical signs and symptoms in Internal Medicine (fundamentals of Medical Semiotics)
- - Obesity and Diabetes Mellitus
- - Pulmonary edema
- - Stroke cerebri
- - Deep venous thrombosis
- - Anemias and classifications
- - Malabsorption
- - Rheumatic and degenerative bone diseases
- - Pathophysiologic aspects of each pathology will be covered with special interest in the clinical, instrumental, and laboratory diagnostic pathways for each pathology. Finally, the pharmacological and interventional therapeutic pathway for each pathology treated will be evaluated, as well as the function of the nurse in the per-course of care of the affected patient.

Syllabus UROLOGY

- Bases of anatomy of the urogenital apparatus and physiology of urination.
- Semeiotic bases of the urogenital system
- Symptoms and dysfunctions of the low urinary tract (retention and urinary incontinence)
- Complicated and uncomplicated urinary infections
- Urinary calculi, hydronephrosis.
- Main characteristics of tumors of the urogenital system
- Urological urgencies
- Bladder catheterization and other urinary drainages
- Urostomies: management and complications.

Syllabus GENERAL SURGERY – SPECIALIZED SURGERY

- Surgery: patient preparation, surgical instruments, laparotomy and minimally invasive surgery
- Postoperative complications
- Infections in general surgery (localized, generalized), gangrene, and ulcers
- Elements of traumatology (wounds and burns, wound healing)
- Shock (hypovolemic, cardiogenic, obstructive, distributive)
- Skin tumors
- Surgery of the upper digestive tract (esophagus, stomach, and duodenum)
- Hepatobiliary and pancreatic surgery (liver, gallbladder, bile ducts, and pancreas)

- Surgery of the lower digestive tract (small intestine, colon, and rectum) and of the anal region
- Surgery of abdominal hernia
- Breast surgery
- Surgery of the endocrine glands (thyroid, parathyroid, adrenal glands)
- Acute abdomen (intestinal obstruction, peritonitis, gastrointestinal bleeding, and hemoperitoneum)
- Solid organ transplantation
- Elements of gynecological surgery, thoracic surgery, vascular surgery, and cardiac surgery

Syllabus GASTROENTEROLOGY

- Physiology and anatomy of gastroenerological system
- Critical approach toward patients with symptoms and signs of
  - Abdominal pain
  - Dysphagia and other esophageal symptoms
  - Dyspepsia
  - Nausea and vomiting
  - Diarrhea
  - Fecal incontinence
  - Constipation
  - Gastrointestinal bleeding
  - Jaundice
- Esophagus
  - gastroesophageal reflux disease and its consequences
  - esophageal disorders caused by infection
- Stomach and duodenum
  - gastric and duodenal ulcer
  - hypertrophic pyloric stenosis
  - gastric neoplasms
- Pancreas
  - acute and chronic pancreatitis
  - tumors of the pancreas
- Biliary Tract
  - gallstones disease
  - sclerosing cholangitis and pyogenic cholangitis

- endoscopic and radiologic treatment of biliary disease (seminar)

- Liver
  - biochemical liver tests
  - infections of the liver
  - alcoholic liver disease
  - non-alcoholic liver disease
  - drug-induced liver diseaSE
  - cirrhosis and complications
  - liver tumors
  - liver transplantation
  - liver biopsy and diagnosis of fibrosis (seminar)
- Small and Large Intestine
  - gut microbiota
  - infectious diarrhea and intestinal protozoa
  - celiac disease
  - inflammatory bowel diseases
  - tumors of large intestine
  - gastrointestinal endoscopy procedure (seminar)
- Psycosocial Factors in gastrointestinal disease

Syllabus INFECTIOUS DISEASE

- General aspects on Infectious Diseases
- Infection and infectious disease
- The chain of transmission
- The body's defenses against infectious diseases
- Diagnostic procedure and guiding concepts of therapy, types of isolation
- Globalization and infectious diseases
- The Infectious syndromes (epidemiology, etiology, clinical, diagnostic and diagnostic and therapeutic aspects)
- Sepsis and endocarditis
- SIRS, sepsis, septic shock
- Acute respiratory syndrome
- Acute neurological syndrome

- Meningitis and infectious encephalitis
- Diarrheal syndrome
- Acute jaundice syndrome
- Febrile exanthematous syndromes
- Feverish syndromes returning from the tropics
- HIV infection / AIDS
- Viral hepatitis

COURSE STRUCTURE

The module of General and Specialized Surgery is structured in 28 hours of frontal/interactive lessons.

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The module of Gastroenterology is structured in 14 hours of face-to-face lectures that are divided in lessons of 2 hours based on academic timetable. The face-to-face lectures are theory lessons and seminars on the arguments discussed.

The module of Oncology is structured in frontal and interactive lessons with the aid of slides and continuous verification of knowledge, understanding and learning of the students.

The module of Infectious Disease is based on lectures with frontal teaching (14 hours), that includes theoretical lessons and supplementary seminars on the topics covered, working group, presentations of results of working groups.

The module of Internal Medicine is structured in 14 hours of lectures divided into lessons of 2 to 4 hours based on the academic calendar. Lectures will include theoretical lessons and supplementary seminars on the topics COVERED

The module of Urology includes 14 hours of lectures, divided into 2 or 4 hour lessons based on the academic calendar.

COURSE GRADE DETERMINATION

The exam of the Teaching of Medicine and Specialized Surgery is comprised of a written and oral exam of the modules of GENERAL AND SPECIALIZED SURGERY, GASTROENTEROLOGY, ONCOLOGY, INFECTIOUS DISEASE, INTERNAL MEDICINE, UROLOGY, whose mark is an integral part of the Integrated Course exam evaluation. The exam will cover the main topics of the teaching modules and will be considered passed if the student scores a final mark of 18/30.

The knowledge and ability to understand, the ability to apply knowledge and understanding, the autonomy of judgment and the communication skills of the student will weigh in the final score as follows 30%, 30%, 30% and 10%, respectively.

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:

< 18 insufficient	The candidate possesses an inadequate knowledge of the topic, makes significant errors in applying theoretical concepts, and shows weak presentation skills.
18 - 20	The candidate possesses a barely adequate and only superficial knowledge of topic, limited presentation skills, and only an inconsistent ability to apply theoretical concepts.
21 – 23	The candidate possesses an adequate, but not in-depth, knowledge of the topic, a partial ability to apply theoretical concepts, and acceptable presentation skills.
24 – 26	The candidate possesses a fair knowledge of the topic, a reasonable ability to apply theoretical concepts correctly and present ideas clearly.
27 - 29	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
30 - 30L	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.

Students with disabilities or certified Specific Learning Disorders (SLD/DSA) are entitled to compensatory tools and dispensatory measures (e.g., extra time, concept maps, equivalent assessment formats), to be agreed in advance with the lecturer and the relevant University office, without prejudice to achieving the same expected learning outcomes.

OPTIONAL ACTIVITIES

- the student will mandatory take part in seminars that will be subject of the exam as indicated in the course syllabus.
- option to attend research internships, department internships and monographic courses.
- The topics of the activities are not subject to examination. Acquisition of the hours allocated occurs only with a mandatory frequency of 100% and suitability is provided.

READING MATERIALS

Reading materials for ONCOLOGY

- Oncology Nursing Society (ONS), Brant, J.M. (2019). Core Curriculum for Oncology Nursing-E-Book. Saunders; 6th edition

- Scientific articles published in international journals on the topics will be made available from time to time.

Reading materials for INTERNAL MEDICINE – SPECIALIST MEDICINE

- Wing JE, Schiffman FJ (2021) Cecil's Essentials of Medicine, Elsevier
- Jameson, J.L., Dennis, L.K., Longo, D.L., Fauci, A.S., Hauser, S.L., Loscalzo, J. (2021). Harrison. Principi di medicina interna. Casa Editrice Ambrosiana. Distribuzione esclusiva Zanichelli; 20 edizione.
- Scientific articles published in international journals on the topics will be made available from time to time.

Reading materials for UROLOGY

- Bassi, P. (2008). Urologia. Cortina Padova Libreria Internazionale
- Carrieri, G. (2010). Manuale di Urologia ed Andrologia. Pacini Editore.
- Lajiness, M., Quallich, S. (2016). The nurse practitioner in urology. Springer; 1st ed.
- Scientific articles published in international journals on the topics will be made available from time to time.

Reading materials for GENERAL SURGERY – SPECIALIZED SURGERY

Bhat, P., Dretler, A., Gdowski, M., Ramgopal, R., & Williams, D. (2016). The Washington manual of medical therapeutics. Lippincott Williams & Wilkins.

- Evers, B. M., & Mattox, K. L. (2004). Sabiston textbook of surgery: the biological basis of modern surgical practice (Vol. 1). Elsevier Brasil.
- Friedman, M.D., Lawrence, J., Brandt, M.D. (2010). Sleisenger and Fordtran's Gastrointestinal and Liver Disease. Saunders; 9° edizione.
- Scientific articles published in international journals on the topics will be made available from time to time.

Reading materials for GASTROENTEROLOGY

- Unigastro. (2019). Malattie dell'apparato digerente. Edra – Masson
- Scientific articles published in international journals on the topics will be made available from time to time.

Reading materials for INFECTIOUS DISEASE

- WHO-EU. Infections and infectious diseases A manual for nurses and midwives in the WHO EuropeanRegion. WHO 2001 Disponibile gratis all'indirizzo: http://www.euro.who.int/__data/assets/pdf_file/0013/102316/e79822.pdf
- Scientific articles published in international journals on the topics will be made available from time to time.