



Attachment 1: Course Syllabus Template

Degree Programme in Medicine and surgery *Academic Year 2026 /2027*

INTEGRATED COURSE (I.C.): Anatomic Pathology II

NUMBER OF CFU (ECTS credits): 8

SSD (Academic Discipline Code): MEDS-04/A

COORDINATOR OF THE I.C.: Prof. Sabrina Rossi

E-MAIL: sabrina.rossi@unicamillus.org

LECTURER: Prof. Eleonora Nardi

e-mail: eleonora.nardi@unicamillus.org

NUMBER OF CFU (ECTS credits): 4

LECTURER: Prof. Sabrina Rossi

e-mail: sabrina.rossi@unicamillus.org

NUMBER OF CFU (ECTS credits): 2

LECTURER: Prof. Angela Santoro

e-mail: angela.santoro@unicamillus.org

NUMBER OF CFU (ECTS credits): 1

LECTURER: Prof. Giulia Scaglione

e-mail: giulia.scaglione@unicamillus.org

NUMBER OF CFU (ECTS credits): 1

PREREQUISITE COURSES

None required.

PREREQUISITES

Although no prerequisites are formally required, a basic knowledge of chemistry, biology, anatomy, histology, microbiology, biochemistry, and general pathology is necessary.

LEARNING OBJECTIVES

- Knowledge of the role of **Pathological Anatomy** in all clinical settings.
- Knowledge of the procedures and instruments used to perform a **gross examination**.
- Understanding of the principles underlying **cytological and histological diagnosis**.

EXPECTED LEARNING OUTCOMES

Students are expected to work towards achieving the following learning outcomes by the end of the course:

DD 1: Knowledge and understanding

Students will be able to recognize morphological and functional differences between normal and diseased tissues and understand the different types of pathological lesions from a structural, morphological, and functional perspective..

DD 2: Applying knowledge and understanding

Students will be able to interpret data obtained from a histopathology laboratory and apply the principles of diagnostic pathology. Students will be able to recognize the morphological features of different pathological tissues and will be introduced to the modern concept of personalized medicine.

DD3: Making judgements

Students will be able to integrate pathological findings with the clinical manifestations of diseases and understand the mechanisms underlying the signs and symptoms of disease.

DD4: Communication skills

Students will become familiar with the essential terminology related to human diseases and with the concepts of disease etiology, pathogenesis, and morphological features.

DD5: Learning skills

Students will learn about the morphological and functional alterations that pathogens and aberrant stimuli can induce in molecules, cells, and tissues, their consequences for the organism as a whole, and the basic defense mechanisms involved in response to these alterations.

SYLLABUS

Cardiovascular pathology

Ischemic heart disease; Tumors of the heart; Myocarditis; Pericarditis; Endocarditis; Primary cardiomyopathies; General aspects of cardiac malformations; Atherosclerosis; Aneurysms; Arteritis

Central nervous system pathology:

Intracranial hypertension – Cerebrovascular disease – Trauma – Inflammation & infections – Demyelinating diseases – Primary neoplasms (glial, ependymal, embryonal, meningotheial) – Metastases. Clinical cases.

Pathology of the Upper and Lower Respiratory Tracts

Neonatal hyaline membrane disease; Pulmonary edema; Pulmonary embolism; Pulmonary emphysema; Pulmonary hypertension; Diffuse alveolar damage (DAD) and acute respiratory failure; Bacterial pneumonia and bronchopneumonia; Pulmonary tuberculosis; Interstitial pneumonias and pulmonary fibrosis; Bronchial asthma and extrinsic allergic alveolitis (hypersensitivity pneumonitis); Pulmonary neoplasms; Pneumoconiosis; Pleural diseases

Skin pathology

Dermatitides – infections – inflammatory and non-inflammatory bullous dermatitides (ultrastructural aspects) – maturation disorders (ultrastructural aspects) – vasculitides – panniculitides – benign and malignant epithelial, melanocytic (adult and pediatric), and mesenchymal neoplasms.

Breast pathology:

General overview – Non-neoplastic pathology – Proliferative breast disease – Breast carcinoma: macroscopic and microscopic types, screening methods, morphological and immunohistochemical prognostic factors.

Gynecologic Pathology:

Vulvar tumors (benign, malignant) – Cervical pathology (benign—infectious and neoplastic—malignant and neoplastic precursors) – Endometrial pathology (inflammatory and neoplastic, benign and malignant, molecular classifications of endometrial tumors) - Uterine mesenchymal tumors – Ovarian tumors – Neuroendocrine gynecological tumors.

Oral cavity pathology:

Embryology and histology – aphthous ulcer – viral infections – candidiasis – benign and malignant neoplasms (epithelial and mesenchymal) – melanocytic lesions – proliferative fibrous lesions – leukoplakia and erythroplakia – tongue tumors – dental and periodontal disease – odontogenic cysts and tumors – role of immunohistochemistry in oral cavity lesions.

Soft tissue pathology:

Liposarcoma – fibroblastic/myofibroblastic tumors – Rhabdomyosarcoma.

Pathology of the digestive system:

Pathology of the esophagus - Non-neoplastic gastric pathology - Gastrointestinal polyps - Gastric tumors - Non-neoplastic intestinal pathology, with particular reference to inflammatory bowel diseases - Intestinal tumors - Appendix tumors - Acute and chronic hepatitis - Cholestatic and alcoholic liver disease - Cirrhosis and hepatocellular carcinoma -Pathology of the gallbladder and extrahepatic bile ducts - Non-neoplastic pancreatic pathology - Pancreatic tumors.

Head and neck pathology:

Inflammatory pathology of the nasal sinuses – benign and malignant tumors of the upper respiratory tract – neoplastic pathology of the ear – inflammatory, reactive, and neoplastic pathology of the larynx – benign and malignant salivary gland pathology – branchial cysts, thyroglossal duct cysts, and paraganglioma.

Peritoneal pathology:

Mesothelioma – Pseudomyxoma peritonei.

COURSE STRUCTURE

The course providing students with specific knowledge and understanding, as detailed below:

Knowledge of the role of Pathological Anatomy in clinical settings related to organ diseases.

Knowledge of the procedures and instruments used to perform gross examinations in the aforementioned clinical settings.

Knowledge of the pre-analytical and analytical procedures involved in the processing of specimens in the aforementioned clinical settings.

Understanding of the principles underlying histological and cytological diagnosis in the aforementioned clinical settings.

The course consists of 80 hours of classroom-based teaching, with 2.5 hours of practical exercises for each CFU (ECTS credit). Clinical cases and practical exercises will be integrated into the lectures and will not be delivered as separate dedicated sessions.

COURSE GRADE DETERMINATION

The course is structured around lectures covering selected topics and providing students with a systematic approach to the study of pathology, which they can also apply to their self-directed learning activities. Regular attendance at lectures and further study using a textbook of Systematic Pathology are strongly recommended.

Practical exercises will be integrated into the lectures and will cover topics in gross pathology and microscopic pathology, using photographic documentation of selected specimens. For selected topics, the lecturer will navigate through virtual slides to illustrate key diagnostic morphological and immunophenotypic features of selected neoplastic and non-neoplastic cases.

Students' knowledge and preparation will be assessed through a written examination followed by an oral examination. The written examination consists of 30 multiple-choice questions. Each correct answer is awarded one point. Students must obtain a minimum score of 18/30 to be admitted to the oral examination.

During the oral examination, the Examination Committee will assess the student's ability to apply the acquired knowledge and will verify that the student has achieved an adequate level of competence to correctly understand and apply the principles and methods of anatomical pathology.

The assessment will also consider the following Dublin Descriptors: making judgements, communication skills, and learning skills.

The final assessment will be based on the following weighting:

Knowledge and understanding: 40%

Applying knowledge and understanding: 40%

Making judgements: 20%

Example of an evaluation grid for an oral exam:

Fail	Significant gaps and/or inaccuracies in knowledge and understanding of the topics; limited analytical and synthesis skills; argumentation absent or frequently incorrect.
18–20	Barely sufficient knowledge and understanding of the topics, with possible imperfections; sufficient analytical, synthesis, and judgement skills.
21–23	Routine knowledge of the topics; correct analytical and synthesis skills with coherent logical argumentation.
24–26	Fair knowledge and understanding of the topics; good analytical and synthesis skills; rigorously expressed argumentation.
27–29	Complete knowledge of the topics; considerable analytical and synthesis skills; good independent judgement.
30–30L	Excellent level of knowledge and understanding. Considerable analytical, synthesis, and independent judgement skills. Original argumentation expressed with full command of specialized terminology.

OPTIONAL ACTIVITIES

Students may meet with the lecturer by appointment, upon request via email.

READING MATERIALS

ROBBINS AND COTRAN, Pathologic Bases of Disease, Eleventh Edition, Elsevier, 2025

ROBBINS AND COTRAN, Atlas of Pathology, Fourth Edition, Elsevier, 2015.

ROBBINS AND COTRAN, Review of Pathology, Fifth Edition, Elsevier, 2021.

Rubin's Pathology: Mechanisms of Human Disease, Eighth edition, Wolters Kluwer, 2019

Lippincott's Illustrated Q&A Review of Rubin's Pathology, Second edition, Wolters Kluwer, 2011