

Electives (ADE) a.y. 2025-2026

1st YEAR 1st SEMESTER

CHEMISTRY AND INTRODUCTION TO BIOCHEMISTRY

Teacher	Type of Elective	Subject	Credits	Hours
A.E. Miele G. Boumis	Laboratory practical	Res Blood Cells resistance to Osmotic stress	0,2	2
A.E. Miele B. Vallone G. Boumis	Laboratory practical	ED encounters with molecules	0,2	2
B. Vallone	Seminar	Biological Buffers	0,2	2

MEDICAL PHYSICS

Teacher	Type of Elective	Subject	Credits	Hours
L. De Sio	Seminar	Nanotechnology for precision Medicine	0,2	2
L. Digiacomo	Seminar	Exploitation of interactions between Nanomaterials and bodily fluids for emerging therapeutic and diagnostic applications in nanomedicine	0,2	2

BIOLOGY AND GENETICS (I)

Teacher	Type of Elective	Subject	Credits	Hours
C. Battistelli	Seminar	transcriptional and post transcriptional regulation of gene expression: the role of epigenetics and ncRNAs	0,2	2
C. Battistelli	Elective placement	Methods for analysing intercellular communication mechanisms in hepatocarcinoma	1	25
V. Silvestri V.Valentini A. Bucalo	Laboratory practical	DNA extraction and quantification	0,2	2

HUMAN ANATOMY (I)

Teacher	Type of Elective	Subject	Credits	Hours
L. Pannarale	Seminar	Contractility of the heart	0,2	2

1st YEAR 2nd SEMESTER

BIOCHEMISTRY (I)

Teacher	Type of Elective	Subject	Credits	Hours
D. De Biase	Seminar	Use of Expasy as Bioinformatic resources portal	0,2	2

HISTOLOGY AND EMBRYOLOGY

Teacher	Type of Elective	Subject	Credits	Hours
D. Coletti M. Sampaolesi	Seminar	Special histology: the tissues of the mouth and the teeth	0,2	2
D. Coletti M. Sampaolesi	Seminar	Development of stomatognathic system	0,2	2
D. Coletti M. Sampaolesi	Seminar	Histology lab: the stomatognathic system	0,2	2
D. Coletti M. Sampaolesi	Seminar	Hot topics in tissue engineering	0,2	2
D. Coletti M. Sampaolesi	Seminar	Muscle diseases: etiopathogenesis and treatment	0,2	2

BASIC MEDICAL SCIENTIFIC METHODS (II)

Teacher	Type of Elective	Subject	Credits	Hours
M. Conforti	Monographic course	Empathy, interpersonal and transcultural communication in the professional development of physicians	0,5	5

2nd YEAR 1st SEMESTER**BIOCHEMISTRY (II)**

Teacher	Type of Elective	Subject	Credits	Hours
M. Perluigi	Seminar	Free radicals in health and disease	0,2	2
M. Perluigi	Seminar	Insulin signaling in brain and its implication in aging and neurodegeneration	0,2	2
M. Perluigi	Elective placement	Molecular mechanisms of neurodegeneration	1	25

HUMAN ANATOMY (II)

Teacher	Type of Elective	Subject	Credits	Hours
S. Nottola	Seminar	Ultrastructural Anatomy of Gametes in Assisted Reproduction: from Oocyte to Blastocyst	0,2	2
E. Gaudio S. Nottola	Seminar	Dissection	0,2	2

HUMAN PHYSIOLOGY (I)

Teacher	Type of Elective	Subject	Credits	Hours
C. Limatola	Elective placement	Laboratory	1	25
C. Limatola	Seminar	Sport, higher education and child protection	0,3	3
F.Grassi	Seminar	Why do we smoke	0,2	2
M. Hartill	Seminar	Child Protection and Safeguarding in Sport	0,3	3

2nd YEAR 2nd SEMESTER

HUMAN ANATOMY (III)

Teacher	Type of Elective	Subject	Credits	Hours
E. Gaudio S. Nottola	Seminar	Dissection	0,2	2
E. Gaudio	Elective placement	Deepening in methods of Optical microscopy (4 students)	1	25
S. Nottola	Elective placement	Deepening in methods of Electron microscopy (4 students)	1	25

HUMAN PHYSIOLOGY (II)

Teacher	Type of Elective	Subject	Credits	Hours
F. Grassi	Seminar	Physiological adaptations to physical activity at high altitude	0,2	2
F. Grassi	Seminar	Physiological adaptations to physical exercise	0,2	2
F. Grassi	Seminar	Presentation by students of simple scientific papers related to core curriculum	0,2	2

MICROBIOLOGY

Teacher	Type of Elective	Subject	Credits	Hours
G. Antonelli	Seminar	Understanding the action of Interferons against viral infections	0,15	1,5
D. Modiano	Seminar	Genetics of susceptibility to Plasmodium falciparum malaria	0,15	1,5

3rd YEAR 1st SEMESTER

HUMAN PHYSIOLOGY (III)

Teacher	Type of Elective	Subject	Credits	Hours
P. Pani	Seminar	Neurophysiology approaches to cognitive function	0,2	2
S. Ferraina	Elective placement	Laboratory	1	25

IMMUNOLOGY AND IMMUNOPATHOLOGY

Teacher	Type of Elective	Subject	Credits	Hours
G. Palmieri (host)	Accademia Medica Seminar, Other institutional seminar.	Immunology topics	0.2	2
M. Cippitelli (host)	Seminar (Prof. A. Santoni)	Does innate immunity have memory?	0.2	2
M. Cippitelli (host)	Seminar (Prof. A. Santoni)	Immunosenescence.	0.2	2

S. Sozzani (host) Seminar (TBD) Tumor immunotherapy strategies. 0.2 2

ADE will be confirmed at the beginning of the semester

PATHOLOGY AND PATHOPHYSIOLOGY (I)

Teacher	Type of Elective	Subject	Credits	Hours
M.P. Felli	Elective placement	Molecular Pathology	1	25
E.De Smaele M. Moretti	Elective placement	Inflammation and disease	1	25
A. Po	Seminar	Animal models of human disease	0,2	2
M.P. Felli (host)	Seminar (Dr. L.Salvatori)	Oxygen sensing, homeostasis and disease	0,2	2
M.P. Felli (host) S. Cialfi	Seminar	The CRISPR/CAS9 system: the cure of human genetic diseases	0,2	2

3rd YEAR 2nd SEMESTER

CLINICAL SCIENTIFIC METHODS (II)

Teacher	Type of Elective	Subject	Credits	Hours
M.I. Bellini	Elective placement	Physical examination of the surgical patient	1	25

PATHOLOGY AND PATHOPHYSIOLOGY (II)

Teacher	Type of Elective	Subject	Credits	Hours
M. Muscolini	Seminar	Oncolytic Immunotherapy: Exploring the immune system for cancer treatment"	0.2	2
A. Po P. Infante	Monografic course	Emerging research areas in cancer: microRNAs and the ubiquitin system	0,5	5
G. Giannini	Seminar	New approaches in cancer therapy: target therapies	0,2	2
G. Canettieri L. Di Magno	Seminar	Targeting cancer metabolism: new drugs and dietary approaches	0,2	2
M. Crescenzi G. Giannini	Seminar	Human genome modifications (enhancing humans)	0,2	2
G. Giannini V.Veschi	Elective placement	Molecular Oncology I	1	25
G. Canettieri L. Di Magno	Elective placement	Molecular Oncology II	1	25
M. Petroni	Seminar	DNA damage in mitotic and post-mitotic neurons: from	0,2	2

neurodevelopmental disorders to age-associated Neurodegenerative diseases.

R. Bordone	Seminar	Autophagy, mitophagy and their targeting in cancer	0,2	2
M. Petroni	Elective placement	DNA damage and molecular neuroncology. (max. 3 students)	1	25
S. Coni	Seminar	Epigenetic alterations and their targeting in cancer	0,2	2

4th YEAR 1st SEMESTER

APPLIED PATHOLOGY I

Teacher	Type of Elective	Subject	Credits	Hours
C.Savoia	Elective placement	Cardiology Sant'Andrea Hospital (3 students)	1	25
C.Savoia	Monographic course	ECG interpretation	0,5	5
P. Severino	Seminar	From pathophysiology to clinical management of the heart failure syndrome	0,2	2
P. Severino	Seminar	Genetic susceptibility of ischemic heart disease	0,2	2
M. Bonini	Seminar	Cardiopulmonary exercise testing	0,2	2
M. Bonini	Seminar	Pulmonary function Test and Arterial Blood Gas interpretation	0,2	2
M. Bonini	Elective placement	Clinical Track in Pneumology (5 students)	1	25
C. Lavallo	Monographic theoretical-Practical course	So far yet so close: theory and practice of telecardiology (20 students)	0,5	5
C. Lavallo	Monographic theoretical-Practical course	Electroanatomic mapping system: new challenges in arrhythmias tracing and ablation (10 students).	0,5	5
W. Mansour	Elective placement	Diagnosis of vascular disease (4 students)	1	25
P. Severino	Elective placement	Clinical Cardiology (8 students)	1	25

PATHOLOGICAL ANATOMY AND ASSOCIATIONS WITH CLINICAL ANATOMY

Teacher	Type of Elective	Subject	Credits	Hours
G. d'Amati C. Giordano A. Ascione	Elective placement	How is life in the Pathology lab? (6 students)	1	25
A. Ascione	Seminar	Digital pathology and artificial intelligence solutions: the future is here.	0,2.	2

APPLIED MEDICAL SCIENTIFIC METHODS

Teacher	Type of Elective	Subject	Credits	Hours
R. Gattuso	Elective placement	Clinical and diagnostic approach to the patient with atherosclerotic arterial disease	1	25 (3 students)
M. Maranghi	Elective placement	Approach to subjects with comorbidities (8 students)	1	25
P. Severino	Elective placement	Approach to patients with cardiovascular diseases (8 students)	1	25

APPLIED APPLIED PATHOLOGY II

Teacher	Type of Elective	Subject	Credits	Hours
S. Mazzaferro G. Franco	Multidisciplinary Seminar	Urolithiasis: clinical management	0,2	2
S. Mazzaferro	Multidisciplinary	Clinical assessment of the	0,2	2
A. Tubaro	Seminar	patient with hematuria		
S. Mazzaferro M. Pasquali	Elective placement	Nephrology (2 students) Policlinico	1	25
A. Tubaro G. Franco	Elective placement	Urology (4 students) <i>Sant'Andrea Hospital/ Policlinico Umberto I</i>	1	25

4th YEAR 2nd SEMESTER**APPLIED PATHOLOGY III**

Teacher	Type of Elective	Subject	Credits	Hours
F. Lombardo	Seminar	Disorders of pubertal development	0,2	2
A. Molinaro	Seminar	Microbiota and metabolic syndrome	0,2	2
S. Ginanni Corradini	Elective placement	Gastroenterology (for 10 students)	1	25
D. Alvaro	Elective placement	Gastroenterology (for 5 students)	1	25

PATHOLOGICAL ANATOMY AND ASSOCIATIONS WITH CLINICAL ANATOMY

Teacher	Type of Elective	Subject	Credits	Hours
G. d'Amati C. Giordano	Elective placement	How is life in the Pathology lab? (5 students)	1	25

PHARMACOLOGY (I) AND TOXICOLOGY

Teacher	Type of Elective	Subject	Credits	Hours
F. Nicoletti C. Grassi	Monographic Course (E-learning)	Tobacco Dependence part 1	0,5	6

DIAGNOSTIC IMAGING

Teacher	Type of Elective	Subject	Credits	Hours
N. Galea	Seminar	Imaging in acute chest pain	0,2	2
N. Landini	Seminar	Interstitial lung disease imaging	0,2	2
M. Pecoraro	Seminar	AI in genitourinary imaging	> 0,25	2
F. Galati	Seminar	Breast Imaging: multimodality approach	0,2	2
L. Manganaro	Seminar	Fetal MRI	0,2	2
S. Perotti	Seminar	Sports Imaging	0,2	2
P. Lucatelli	Seminar	HCC: From diagnosis to treatment	0,2	2
A. Laghi D. Caruso	Seminar	AI in diagnostic imaging: opportunities and challenges	0,2	2
A. Laghi M. Zerunian	Seminar	Case-based discussion of GI diseases	0,2	2

5th YEAR 1st SEMESTER

DISEASES OF THE NERVOUS SYSTEM

Teacher	Type of Elective	Subject	Credits	Hours
G. Fabbrini	Elective placement	Grand Rounds in the Neurological Ward (Monday morning from October to January)	1	20
G. Fabbrini	Seminar	Experience in a Video Electroencephalography lab (max 5 students)	0.2	2
M. Fiorelli	Seminar	Neuroimaging	0,2	2
F. Nardecchia	Seminar	Paediatric Neurology	0,2	2

APPLIED PATHOLOGY IV

Teacher	Type of Elective	Subject	Credits	Hours
I. Del Giudice	Seminar	Interpretation of a blood count	0,2	2
I. Quinti	Seminar	Diagnostic test for allergy in Vivo	0,2	2
F. Conti M. Bombardieri	Seminar	Sjogren's Syndrome: from bench to bedside	0,2	2

PHARMACOLOGY (II) AND TOXICOLOGY

Teacher	Type of Elective	Subject	Credits	Hours
F. Nicoletti C. Grassi	Monographic Course (E-learning)	Tobacco Dependence part 2	0,5	6
F. Nicoletti C. Grassi	Monographic Course (E-learning)	Tobacco Dependence part 3	0,5	6

APPLIED PATHOLOGY V

Teacher	Type of Elective	Subject	Credits	Hours
M. Lichtner	Elective placement	Study of residual immune activation in HIV	1	25
M.A. Zingaropoli M.Antinozzi P. Pasculli				
M. Lichtner A. Oliva- S. Di Bari	Seminar	Infection control and antimicrobial stewardship: from theory to practice	0,2	2

5th YEAR 2nd SEMESTER**PSYCHIATRY AND CLINICAL PSYCHOLOGY**

Teacher	Type of Elective	Subject	Credits	Hours
L. Tarsitani	Seminar	Communication and De-escalation in Psychiatry	0,2	2
L. Tarsitani	Elective placement	Psychiatric intensive care unit (max 10 students)	1	25
L.Ballesio	Seminar	Sleep disorders, health, and disease	0,2	2
L.Ballesio	Seminar	Psychoneuroimmunology of depression	0,2	2

DISEASES OF THE SENSORY ORGANS

Teacher	Type of Elective	Subject	Credits	Hours
V. Valentini	Elective placement	Oncological and Reconstructive Maxillo - Facial Surgery Unit	1	25

ORTHOPAEDICS, TRAUMATOLOGY AND RHEUMATOLOGY

Teacher	Type of Elective	Subject	Credits	Hours
F. Coluzzi	Monographic Course	Pain chronification and management in degenerative diseases	0.5	5

INTERNAL MEDICINE AND GENERAL SURGERY I

Teacher	Type of Elective	Subject	Credits	Hours
F. Coluzzi	Monographic Course	Early Palliative Care in Cancer Patient Management	0.5	5

DERMATOLOGY AND PLASTIC SURGERY

Teacher	Type of Elective	Subject	Credits	Hours
M. Sorotos	Seminar	Otoplasty	0.2	2
F. Santanelli di Pompeo	Seminar	Breast Augmentation with Tissue Preservation	0.2	2
G. Firmani	Seminar	Blepharoptosis	0.2	2

6th YEAR 1st SEMESTER

INTERNAL MEDICINE AND GENERAL SURGERY II

Teacher	Type of Elective	Subject	Credits	Hours
M. Del Ben	Elective Placement	Clinical Approach and Management of chronic metabolic diseases (max. 2 students, Day Service di Medicina Interna e Malattie Metaboliche, 8 a.m.-1 p.m.)	1	25

MEDICAL SCIENTIFIC METHODS X- PUBLIC HEALTH

Teacher	Type of Elective	Subject	Credits	Hours
V. Baccolini A. Sciurri	Seminar	Artificial Intelligence in Healthcare: Opportunities and Risks	0.2	2
V. Baccolini L. Maria Siena	Seminar	Innovation in Clinical Trial Design: How We Study New Treatments Today	0.2	2
A. Rosso	Seminar	Health of Migrant Populations: Epidemiology and Intervention Strategies	0.2	2

PAEDIATRICS

Teacher	Type of Elective	Subject	Credits	Hours
F. Midulla	Seminar	Paediatric endoscopy of respiratory Airways	0,2	2
F. Midulla	Elective placement	Paediatric emergency	1	25
F. Midulla	Elective placement	Diagnostic examination in paediatric pulmonology	1	25
F. Nardecchia	Elective placement	Semeiology and diagnosis of movement disorders in childhood	1	25

6th YEAR 2nd SEMESTER**EMERGENCY MEDICINE AND SURGERY**

Teacher	Type of Elective	Subject	Credits	Hours
G. Brachini	Elective Placement	How's life in the ER? (15 Students)	1	25

5th- 6th YEAR**PILLS OF FUTURE: HELPING YOUR CHOICE AFTER GRADUATION**

Teacher	Type of Elective	Subject	Credits	Hours
G. d'Amati D. Coletti M. Maranghi D. De Biase.	Monographic Course	Various	0.5	5

General (not associated with a specific year/course)

BLENDING INTENSIVE PROGRAMME (BIP) CIVIS

Teacher	Type of Elective	Subject	Credits	Hours
To be defined	Seminar	Various	3	Duration of specific Conference >25

CERTIFYING TRAINING TO BECOME A SKILL LAB TUTOR

Teacher	Type of Elective	Subject	Credits	Hours
Prof. R. Lubrano Prof. G. d'Amati	Elective Placement	Learning to be a Skill lab Tutor	1	25

IT IS ALL ABOUT US! THE ROLE OF STUDENTS IN THE QUALITY ASSURANCE PROCESS

Teacher	Type of Elective	Subject	Credits	Hours
Prof. G. d'Amati D. De Biase C. Giordano	Monographic Course	Various	0.5	5
