



GENERAL SURGERY II	
Anno immatricolazione	2017/2018
Anno offerta	2021/2022
Normativa	DM270
Dipartimento	DIPARTIMENTO DI MEDICINA MOLECOLARE
Corso di studio	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
Curriculum	PERCORSO COMUNE
Anno di corso	5°
Periodo didattico	Secondo Semestre (01/03/2022 - 03/06/2022)
Crediti	12
Lingua insegnamento	English
Prerequisiti	The student should know general Pathology and Anatomy.
Obiettivi formativi	<p>The Plastic Surgery body of knowledge is founded on solid biological and anatomical bases and involves a huge variety of clinical scenarios the health professional has to face in her/his everyday practice. The scope of the course is to build a solid knowledge that would allow the health professional to recognize and understand the wide spectrum of pathologies that require the Plastic Surgery expertise.</p>
Programma e contenuti	<ol style="list-style-type: none"><li>1 Wound healing and scar pathology</li><li>2 Techniques of suture</li><li>3 Grafts</li><li>4 Transplants</li><li>5 Implants</li><li>6 Advanced technologies in Plastic Surgery:<ol style="list-style-type: none"><li>a VAC therapy</li><li>b LASER and IPL</li><li>c Radiofrequencies</li><li>d Ultrasounds</li></ol></li><li>7 Skin tumours<ol style="list-style-type: none"><li>a Basal cell carcinoma</li><li>b Squamous cell carcinoma</li><li>c Melanoma</li></ol></li><li>8 Principles of oncological reconstructive surgery:</li></ol>

- a Breast reconstruction
- b Head and neck reconstruction
  - i. Scalp and forehead reconstruction
  - ii. Eyelid reconstruction
  - iii. Nose reconstruction
  - iv. Ear reconstruction
  - v. Lip reconstruction
  - vi. Reconstruction of the oral cavity
  - vii. Mandible reconstruction
- 9 Burns
- 10 Soft tissue trauma (compartment syndrome)
- 11 Soft tissue infectious diseases (necrotizing fasciitis)
- 12 Principles of hand surgery:
  - a Functional anatomy of the hand
  - b Nerve compression syndromes
  - c Tendon injuries
  - d Dupuytren disease
  - f Chronic tenosynovitis
  - g Hand reconstruction
- 13 Hemangiomas and vascular malformations
- 14 Facial reanimation
- 15 Difficult to heal wounds
- 16 Congenital pathology:
  - a Craniofacial malformations and syndromes (cleft lip and palate, craniosynostosis, craniofacial syndromes, craniofacial clefts)
  - b Congenital anomalies of the hand
  - c Genital malformations and reconstruction
- 17 Aesthetic surgery

#### Metodi didattici

The new course organization is based upon a solid pact between teachers and students and is founded on the mutually responsible interpretation of the University Credit, the unit of measurement of work students and teachers are required to undertake: teachers and students therefore actively work together for a common objective. The new on-line approach through the KIRO website provides the theoretical bases of the course.

The students are expected to study the topic prior to the lesson as the latter is conceived as an interactive development of the students' knowledge. Therefore, the University Credit starts with the students' contribution (individual preliminary study) and is then followed by the teacher's one (the interactive lesson).

#### Testi di riferimento

For the Plastic Surgery part:  
 Angela Faga. CHIRURGIA PLASTICA - RICOSTRUTTIVA ED ESTETICA. Third Edition. Elsevier-Masson.

Thorne C.H. Grabb and Smith's PLASTIC SURGERY. 7th edition.  
 Wolters Kluwer - Lippincott Williams & Wilkins

#### Modalità verifica apprendimento

The exam is oral and is based upon the whole program. When preparing the exam, the student should refer to both the lessons and the textbook. The oral dissertation is based on the effective approach to a clinical case, it should be organized with logical order moving from the

general to the particular and it should be supported by solid arguments, in a correct English language with the appropriate use of medical terminology.

The integrated exam score is the weighted mean score from the single parts with the roundings approved according to the unquestionable commission's judgement.

#### **Altre informazioni**

Optional interactive hands-on practical courses.  
Small group hands-on practical courses on the basic techniques of surgical practice.

#### **Obiettivi Agenda 2030 per lo sviluppo sostenibile**

#### **L'insegnamento è suddiviso**

501886 - **NEURORADIOLOGY**

501887 - **ONCOLOGY**

501872 - **ORTHOPAEDICS**

501890 - **PLASTIC AND RECONSTRUCTIVE SURGERY**

501884 - **RADIOLOGY**

501885 - **RADIOTHERAPY**

501873 - **REHABILITATION**



# UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

## NEURORADIOLOGY

<b>Anno immatricolazione</b>	2017/2018
<b>Anno offerta</b>	2021/2022
<b>Normativa</b>	DM270
<b>SSD</b>	MED/37 (NEURORADIOLOGIA)
<b>Dipartimento</b>	DIPARTIMENTO DI MEDICINA MOLECOLARE
<b>Corso di studio</b>	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
<b>Curriculum</b>	PERCORSO COMUNE
<b>Anno di corso</b>	5°
<b>Periodo didattico</b>	Secondo Semestre (01/03/2022 - 03/06/2022)
<b>Crediti</b>	1
<b>Ore</b>	8 ore di attività frontale
<b>Lingua insegnamento</b>	English
<b>Tipo esame</b>	ORALE
<b>Docente</b>	PICHIECCHIO ANNA - 1 CFU
<b>Prerequisiti</b>	The course is part of the basic neuroradiological training of medical students, to better follow the course they must have attended courses and have acquired the basic knowledge of physics and physiology.
<b>Obiettivi formativi</b>	The course aims to provide technical knowledge on basic and advanced diagnostics and their clinical applications, starting from general concepts and physical principles and deepening the main clinical-diagnostic indications, also with discussion of clinical cases.
<b>Programma e contenuti</b>	Radiological Anatomy of the Central Nervous System Computed tomography and magnetic resonance: physical principles, technical sequences (conventional and advanced) and clinical applications Radiological diagnosis and management of cerebral ischemia and brain tumors Inflammatory and infectious pathologies in neuroradiology

	Spinal and cranial trauma : neuroradiology Neuropaediatrics: basic concepts for imaging
<b>Metodi didattici</b>	Frontal lessons
<b>Testi di riferimento</b>	Neuroradiology: the requisites. Grossman and Youssef  Teacher slides provided to students
<b>Modalità verifica apprendimento</b>	oral exam with discussion of a clinical case/ Covid time: written exam with 16 multiple choice questions on a clinical case
<b>Altre informazioni</b>	oral exam with discussion of a clinical case/ Covid time: written exam with 16 multiple choice questions on a clinical case
<b>Obiettivi Agenda 2030 per lo sviluppo sostenibile</b>	



# UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

## ONCOLOGY

Anno immatricolazione	2017/2018
Anno offerta	2021/2022
Normativa	DM270
SSD	MED/06 (ONCOLOGIA MEDICA)
Dipartimento	DIPARTIMENTO DI MEDICINA MOLECOLARE
Corso di studio	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
Curriculum	PERCORSO COMUNE
Anno di corso	5°
Periodo didattico	Secondo Semestre (01/03/2022 - 03/06/2022)
Crediti	2
Ore	16 ore di attività frontale
Lingua insegnamento	English
Tipo esame	ORALE
Docente	LOCATI LAURA DEBORAH - 1 CFU SOTTOTETTI FEDERICO - 1 CFU
Prerequisiti	
Obiettivi formativi	
Programma e contenuti	
Metodi didattici	
Testi di riferimento	
Modalità verifica apprendimento	
Altre informazioni	
Obiettivi Agenda 2030 per lo	





## ORTHOPAEDICS

<b>Anno immatricolazione</b>	2017/2018
<b>Anno offerta</b>	2021/2022
<b>Normativa</b>	DM270
<b>SSD</b>	MED/33 (MALATTIE APPARATO LOCOMOTORE)
<b>Dipartimento</b>	DIPARTIMENTO DI MEDICINA MOLECOLARE
<b>Corso di studio</b>	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
<b>Curriculum</b>	PERCORSO COMUNE
<b>Anno di corso</b>	5°
<b>Periodo didattico</b>	Secondo Semestre (01/03/2022 - 03/06/2022)
<b>Crediti</b>	2
<b>Ore</b>	16 ore di attività frontale
<b>Lingua insegnamento</b>	English
<b>Tipo esame</b>	SCRITTO E ORALE CONGIUNTI
<b>Docente</b>	GRASSI FEDERICO - 1 CFU MOSCONI MARIO - 1 CFU
<b>Prerequisiti</b>	Knowledge of anatomy, physiology and pathology.
<b>Obiettivi formativi</b>	Knowledge of main topics in orthopaedics and traumatology of childhood and adulthood.
<b>Programma e contenuti</b>	1 Bone and cartilage histology and metabolism 2 Bone healing, fracture, non union, fixation and grafting 3 Systemic disorders, metabolic bone diseases, osteoporosis osteomalacia paget disease 4 Systemic disorders skeletal displasias Achondroplasia Pseudoachondroplasia Spondyloepiphyseal dysplasia



- 5 Systemic disorders -Multiple cartilaginous exostoses Larsen syndrome Mucopolysaccharidoses
- 6 Systemic disorders -Marfan syndrome, Marfan-like syndrome, Ehlers Danlos syndrome
- 7 Gout degenerative arthritis and bone necrosis
- 8 Infections: septic arthritis and osteomyelitis
- 9 Neuromuscular disorders and peripheral nerve lesions
- 10 Musculo skeletal neoplasm general concepts, staging biopsy
- 11 Musculo skeletal neoplasm bone cells tumors
- 12 Musculo skeletal neoplasm cartilage cells tumors
- 13 Musculo skeletal neoplasm eosinophilic granuloma, ewing sarcoma
- 14 Musculo skeletal neoplasm fibroma fibrosarcoma hemangioma angiosarcoma
- 15 Musculo skeletal neoplasm giant cells tumors
- 16 Soft tissue tumors
- 18 Soft tissue tumors
- 19 Bone metastasis
- 20 Pediatric orthopaedics DDS, Perthes, Epiphyseolysis (Legg Perthes Calvé disease)
- 21 Pediatric orthopaedics •Osteochondrosis and OCD
- 22 Pediatric orthopaedics Clubfoot and flatfoot
- 23 Pediatric traumatology Growth plate injuries
- 24 Upper extremity -Brachial plexus injury in children Fractures of clavicle, and humerus in children
- 25 Upper extremity trauma Scapula Clavicle Scapulo-thoracic dissociation
- 26 Upper extremity Proximal humerus and humeral shaft fractures
- 27 Upper extremity elbow fractures in children
- 28 Upper extremity elbow fractures in adults
- 29 Upper extremity forearm fractures and dislocations in children and

adults

30 Upper extremity: the shoulder

31 Upper extremity the elbow

32 Upper extremity: the hand

33 Upper extremity: the hand

34 Pediatrics traumatology lower limb fractures in children

35 Lower extremity: •Pelvic trauma Acetabular fractures Hip dislocation Hip fractures

36 Lower extremity:•FAI Osteonecrosis of the femoral head Prosthetic replacement

37 Lower extremity •Femoral shaft fractures Supracondylar fractures of the femur Tibial plateau fractures Tibial shaft fractures

38 Lower extremity •Ankle fractures foot trauma compartment syndrome

39 Lower extremity •Meniscal injuries ACL injuries PCL injuries

40 Lower extremity MCL injuries LCL injuries Combined injuries Prosthetic replacement

41 Lower extremity the hip

42 Lower extremity the knee

43 Lower extremity the ankle and the foot

44 Spine in children and adolescents

45 Disk pathology and radiculopathies

46 Degenerative spine

47 Spine trauma

**Metodi didattici**

Lectures.

**Testi di riferimento**

AAOS essentials in musculoskeletal care.

**Modalità verifica apprendimento**

Oral and written exams.

**Altre informazioni**

No.

**Obiettivi Agenda 2030 per lo sviluppo sostenibile**



### PLASTIC AND RECONSTRUCTIVE SURGERY

<b>Anno immatricolazione</b>	2017/2018
<b>Anno offerta</b>	2021/2022
<b>Normativa</b>	DM270
<b>SSD</b>	MED/19 (CHIRURGIA PLASTICA)
<b>Dipartimento</b>	DIPARTIMENTO DI MEDICINA MOLECOLARE
<b>Corso di studio</b>	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
<b>Curriculum</b>	PERCORSO COMUNE
<b>Anno di corso</b>	5°
<b>Periodo didattico</b>	Secondo Semestre (01/03/2022 - 03/06/2022)
<b>Crediti</b>	2
<b>Ore</b>	16 ore di attività frontale
<b>Lingua insegnamento</b>	English
<b>Tipo esame</b>	ORALE
<b>Docente</b>	NICOLETTI GIOVANNI (titolare) - 2 CFU TRESOLDI MARCO MARIO - 0 CFU
<b>Prerequisiti</b>	The student should know general Pathology and Anatomy.
<b>Obiettivi formativi</b>	The Plastic Surgery body of knowledge is founded on solid biological and anatomical bases and involves a huge variety of clinical scenarios the health professional has to face in her/his everyday practice. The scope of the course is to build a solid knowledge that would allow the health professional to recognize and understand the wide spectrum of pathologies that require the Plastic Surgery expertise.
<b>Programma e contenuti</b>	1 Wound healing and scar pathology 2 Techniques of suture 3 Grafts 4 Transplants 5 Implants 6 Advanced technologies in Plastic Surgery:

- a VAC therapy
- b LASER and IPL
- c Radiofrequencies
- d Ultrasounds
- 7 Skin tumours
  - a Basal cell carcinoma
  - b Squamous cell carcinoma
  - c Melanoma
- 8 Principles of oncological reconstructive surgery:
  - a Breast reconstruction
  - b Head and neck reconstruction
    - i. Scalp and forehead reconstruction
    - ii. Eyelid reconstruction
    - iii. Nose reconstruction
    - iv. Ear reconstruction
    - v. Lip reconstruction
    - vi. Reconstruction of the oral cavity
    - vii. Mandible reconstruction
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- 11 Soft tissue infectious diseases (necrotizing fasciitis)
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  - a Functional anatomy of the hand
  - b Nerve compression syndromes
  - c Tendon injuries
  - d Dupuytren disease
  - f Chronic tenosynovitis
  - g Hand reconstruction
- 13 Hemangiomas and vascular malformations
- 14 Facial reanimation
- 15 Difficult to heal wounds
- 16 Congenital pathology:
  - a Craniofacial malformations and syndromes (cleft lip and palate, craniosynostosis, craniofacial syndromes, craniofacial clefts)
  - b Congenital anomalies of the hand
  - c Genital malformations and reconstruction
- 17 Aesthetic surgery

#### Metodi didattici

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#### Testi di riferimento

Angela Faga. CHIRURGIA PLASTICA - RICOSTRUTTIVA ED ESTETICA. Third Edition. Elsevier-Masson.

Thorne C.H. Grabb and Smith's PLASTIC SURGERY. 7th edition.  
Wolters Kluwer - Lippincott Williams & Wilkins

**Modalità verifica  
apprendimento**

The exam is oral and is based upon the whole program. When preparing the exam, the student should refer to both the lessons and the textbook. The oral dissertation is based on the effective approach to a clinical case, it should be organized with logical order moving from the general to the particular and it should be supported by solid arguments, in a correct English language with the appropriate use of medical terminology.

**Altre informazioni**

Optional interactive hands-on practical courses.  
Small group hands-on practical courses on the basic techniques of surgical practice.

**Obiettivi Agenda 2030 per lo  
sviluppo sostenibile**



### RADIOLOGY

<b>Anno immatricolazione</b>	2017/2018
<b>Anno offerta</b>	2021/2022
<b>Normativa</b>	DM270
<b>SSD</b>	MED/36 (DIAGNOSTICA PER IMMAGINI E RADIOTERAPIA)
<b>Dipartimento</b>	DIPARTIMENTO DI MEDICINA MOLECOLARE
<b>Corso di studio</b>	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
<b>Curriculum</b>	PERCORSO COMUNE
<b>Anno di corso</b>	5°
<b>Periodo didattico</b>	Secondo Semestre (01/03/2022 - 03/06/2022)
<b>Crediti</b>	2
<b>Ore</b>	16 ore di attività frontale
<b>Lingua insegnamento</b>	English
<b>Tipo esame</b>	ORALE
<b>Docente</b>	PREDA LORENZO - 2 CFU
<b>Prerequisiti</b>	Good knowledge of the general pathology.
<b>Obiettivi formativi</b>	Application of different diagnostic exams according to the various diseases and with reference to the different anatomical districts involved. Basic information on the radioprotection of the population and workers.
<b>Programma e contenuti</b>	Study of the different methods according to the clinical questions and the results obtained with other methods. Optimization of imaging protocols based on the diagnostic question and the patient's pathology.
<b>Metodi didattici</b>	Frontal lessons. Practical exercises with simulated cases.
<b>Testi di riferimento</b>	Lesson's slides Learning Radiology, Recognizing the Basics (With STUDENT

CONSULT Online Access), 2nd Edition (Inglese)

**Modalità verifica  
apprendimento**

OSCE Station

**Altre informazioni**

.

**Obiettivi Agenda 2030 per lo  
sviluppo sostenibile**



# UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

## RADIOTHERAPY

<b>Anno immatricolazione</b>	2017/2018
<b>Anno offerta</b>	2021/2022
<b>Normativa</b>	DM270
<b>SSD</b>	MED/36 (DIAGNOSTICA PER IMMAGINI E RADIOTERAPIA)
<b>Dipartimento</b>	DIPARTIMENTO DI MEDICINA MOLECOLARE
<b>Corso di studio</b>	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
<b>Curriculum</b>	PERCORSO COMUNE
<b>Anno di corso</b>	5°
<b>Periodo didattico</b>	Secondo Semestre (01/03/2022 - 03/06/2022)
<b>Crediti</b>	1
<b>Ore</b>	8 ore di attività frontale
<b>Lingua insegnamento</b>	English
<b>Tipo esame</b>	ORALE
<b>Docente</b>	FILIPPI ANDREA RICCARDO - 1 CFU
<b>Prerequisiti</b>	Good knowledge of the general pathology
<b>Obiettivi formativi</b>	Application of different diagnostic exams according to the various diseases and with reference to the different anatomical districts involved.
<b>Programma e contenuti</b>	Study of the different methods according to the clinical questions and the results obtained with other methods. Optimization of imaging protocols based on the diagnostic question and the patient's pathology.
<b>Metodi didattici</b>	Frontal lessons. Practical exercises with simulated cases.
<b>Testi di riferimento</b>	Lesson's slides Learning Radiology, Recognizing the Basics (With STUDENT CONSULT Online Access), 2nd Edition (Inglese)



**Modalità verifica  
apprendimento**

OSCE Station

**Altre informazioni**

.

**Obiettivi Agenda 2030 per lo  
sviluppo sostenibile**



# UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

## REHABILITATION

<b>Anno immatricolazione</b>	2017/2018
<b>Anno offerta</b>	2021/2022
<b>Normativa</b>	DM270
<b>SSD</b>	MED/34 (MEDICINA FISICA E RIABILITATIVA)
<b>Dipartimento</b>	DIPARTIMENTO DI MEDICINA MOLECOLARE
<b>Corso di studio</b>	MEDICINA E CHIRURGIA (IN LINGUA INGLESE)
<b>Curriculum</b>	PERCORSO COMUNE
<b>Anno di corso</b>	5°
<b>Periodo didattico</b>	Secondo Semestre (01/03/2022 - 03/06/2022)
<b>Crediti</b>	2
<b>Ore</b>	16 ore di attività frontale
<b>Lingua insegnamento</b>	English
<b>Tipo esame</b>	SCRITTO E ORALE CONGIUNTI
<b>Docente</b>	NARDONE ANTONIO - 1 CFU PAVESE CHIARA - 1 CFU
<b>Prerequisiti</b>	The student must know the basis of anatomy, physics, physiology and pathophysiology
<b>Obiettivi formativi</b>	Aims of the course are to teach the basic principles of Physical Medicine and Rehabilitation, to describe the organization of the relevant facilities and of the interprofessional team. The student will learn to evaluate and treat some diseases frequently causing disability and requiring rehabilitation.
<b>Programma e contenuti</b>	Definition of impairment, disability, handicap. WHO classification: ICIDH-1, ICIDH2 o ICF. Measurement of impairment: pain, muscle trophism and strength, dynamometry, goniometry. Measurement of disability: Barthel Index, global mobility tests, IADL ed EADL, FIM. Measurement of handicap: PDQ-39. Definition of rehabilitation, rehabilitative diagnosis, individual rehabilitative project and program,

phases of intervention. Rehabilitation team.  
 Therapeutic exercise. Sources of energy during muscle contraction.  
 Muscle strengthening exercise. Aerobic Exercise. Training Parameters.  
 Borg Rate of Perceived Exertion.  
 Primary and secondary hip arthrosis. Elective hip arthroprosthesis. Hip arthroprosthesis and femur osteosynthesis after medial and lateral fractures of the proximal end of the femur. Complications of hip replacement surgery that may affect rehabilitation. Individual rehabilitation project and program. Prevention of prosthesis dislocation. Walking training.  
 Knee arthrosis and total knee prosthesis. Complications after surgery. Individual rehabilitation project and program after knee prosthesis.  
 Passive and active range of motion recovery.  
 Anatomico-physiology of the lumbar spine. Low back pain: classification based on duration and etiology. Symptoms and signs. Therapy.  
 Anatomico-physiology of the cervical spine. Causes of cervicalgia.  
 Degenerative and inflammatory pathology of the cervical spine. Physical examination in neck pain. Physical and pharmacological therapy.  
 Whiplash syndrome: pathophysiology and treatment.  
 Shoulder: anatomy and physiology. Physical examination. Rotator cuff disease. Shoulder instability. Glenohumeral osteoarthritis. Adhesive capsulitis. Diagnosis, medical treatment and surgery.  
 Rehabilitation of insertional tendinopathy.  
 Spinal cord injury: pathophysiology and rehabilitation.  
 Peripheral facial palsy.  
 Introduction to Stroke. SPREAD Guidelines. Spasticity, changes in posture, balance and gait. Verbal communication disorders, swallowing, sphincter continence. Complications and comorbidity. Rehabilitation: muscle strengthening, aerobic exercise, equilibrium and walking training. Use of treadmill with body weight support and robot for recovery of locomotion. Occupational Therapy in Stroke.  
 Dizziness and falls. Berg Balance scale. Timed Up & Go test.

**Metodi didattici**

The course is based on lectures given with PowerPoint presentations, projected on screen. Practice is not part of the course.

**Testi di riferimento**

1. Cifu DX et al., Braddom's Physical Medicine and Rehabilitation, 6th edition, Elsevier Inc., 2021. ISBN: 978-0-323-62539-5
2. <http://emedicine.medscape.com/rehabilitation>
3. <http://www.ncbi.nlm.nih.gov/bookshelf/br.fcgi?book=physmedrehab>

**Modalità verifica apprendimento**

Written exam made of 15 questions with multiple choice answers. Only one possible answer is correct. The total score ranges from 0 to 30. Correction is made just after the test and immediately communicated to the students.

**Altre informazioni**

N/A

**Obiettivi Agenda 2030 per lo sviluppo sostenibile**