

General information

Absence percentage

20%	
Website	
Expected languages	
Italian, English	
Department	
Department of Medical Biotechnology (DBM)	
Teaching Contacts	
- Prof. Matteo Cameli - e-mail <u>matteo.cameli@unisi.it</u>	
- Dr. Giulia Elena Mandoli e-mail giulia.mandoli@unisi.it	
Support and agreement	
Support and agreement	
No support or convention	
Access qualifications	
Class Description	

Class	Description	Type Degree
Class LM-	41 Medicine and Surgery (new system pursuant to I	Ministerial Decree 270/04) LM
Class LS4	6 Medicine and surgery	LS
-	Medicine and surgery	V.O.
Legend of do	egree classes - L: bachelor's degree - LS: specialist degree - LM: ı iploma	master's degree - O.V. degree under the old system - DU:
Action on	patient	
No		
Mannequ	in alternative	
No		
Register	registration	
Yes		

Professional Register
Surgeons and Dentists
Professional qualification
Yes
Type of professional qualification
Surgeon
Specialization
No
Application for admission or enrolment
Admission procedures
Exhaustion
Minimum number of participants
5
Maximum number of subscribers
55
Application fees
Total amount in €
3000.00
First instalment amount in €
2000.00
Amount of the second instalment in €
1000.00
Second instalment deadline
Thursday 30 April 2026

Training

Teaching methods

Distance learning (online lessons in synchronous mode)

Internal venue

Cardiovascular Diagnostics Unit, Medical Biotechnology Department, UNISI

Area Title: STANDARD AND ADVANCED ECHOCARDIOGRAPHIC METHODS

Total ECTS area: 12

Professors in charge: Cameli Matteo - Mandoli Giulia Elena

Teaching activity: STRESS ECHOCARDIOGRAPHY

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: ECHOCARDIOGRAPHY SPECKLE TRACKING

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: TRANSESOPHAGEAL ECHOCARDIOGRAPHY

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: TRANSTHORACIC ECHOCARDIOGRAPHY

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: THREE-DIMENSIONAL ECHOCARDIOGRAPHY

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic activity: HANDS ON SESSION ON WORKSTATION

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Title Area: ECHOCARDIOGRAPHY IN CARDIOMYOPATHIES

Total credits area: 8

Professors in charge: D'Ascenzi Flavio - Focardi Marta

Educational activity: ADVANCED ECHOCARDIOGRAPHY AND EARLY DIAGNOSIS OF SUBCLINICAL CARDIAC

DYSFUNCTION
University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: ECHOCARDIOGRAPHY AND CARDIAC DAMAGE FROM CHEMOTHERAPY

University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

 ${\it Educational\ activity:} \ {\it ECHOCARDIOGRAPHY\ IN\ THE\ ATHLETE'S\ HEART\ AND\ DIFFERENTIAL\ DIAGNOSIS\ WITH$

CARDIOMYOPATHIES
University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: ECHOCARDIOGRAPHY IN CONGENITAL HEART DISEASE

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: ECHOCARDIOGRAPHY IN CARDIAC HYPERTROPHY

University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Educational activity: MULTIMODAL IMAGING IN CARDIOMYOPATHIES

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Area Title: ECHOCARDIOGRAPHY IN VALVULOPATHIES

Total credits area: 8

Professors in charge: Cameli Matteo - Lisi Matteo

Educational activity: ECHOCARDIOGRAPHY IN AORTIC VALVULOPATHY

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Teaching activity: ECHOCARDIOGRAPHY IN MITRAL VALVE DISEASE

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic activity: ECHOCARDIOGRAPHY IN COMBINED VALVULOPATHIES

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic activity: ECHOCARDIOGRAPHY IN VALVULOPATHIES OF THE RIGHT HEART

University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic training activity: TRANSESOPHAGEAL ECHOCARDIOGRAPHY AS AN ADJUNCT TOOL IN

INSTRUMENTAL INTERVENTIONAL

STUDIES University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Area Title: ECHOCARDIOGRAPHY IN HEART FAILURE

Total ECTS Area: 6

Professors in charge: Aboumarie Hatem Abdullah Soliman - Mandoli Giulia Elena

Teaching activity: ECHOCARDIOGRAPHY AND EVALUATION OF DIASTOLIC DYSFUNCTION

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic training activity: ECHOCARDIOGRAPHY IN THE CARDIAC TRANSPLANT PATIENT

University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic training activity: ECHOCARDIOGRAPHY IN PATIENTS WITH ADVANCED HEART FAILURE

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic training activity: ECHOCARDIOGRAPHY IN THE PRE- AND POST-LVAD PATIENT

University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Title Area: ECHOCARDIOGRAPHY IN THE MANAGEMENT OF THE PATIENT IN ACUTE AREA

Total credits: 7

Professors in charge: Cameli Matteo

Didactic activity: ECHOCARDIOGRAPHY IN SHORT-TERM VENTRICULAR ASSIST DEVICES

University credits: 1

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic activity: ECHOCARDIOGRAPHY IN CARDIOLOGY INTENSIVE CARE: TIPS AND TRICKS

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Didactic training activity: ECHOCARDIOGRAPHY IN PATIENTS WITH ACUTE HEART FAILURE

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Teaching activity: ECHOCARDIOGRAPHY IN THE EMERGENCY-URGENCY SETTING

University credits: 2

SSD code: MED/11 (DISEASES OF THE CARDIOVASCULAR SYSTEM)

Choice of internship/traineeship

TRAINING

Internship/traineeship procedures

Attendance at the outpatient clinics of the Cardiovascular Diagnostics Unit and the Clinical-Surgical Cardiology Unit (ICU) of the University of Siena (AOUS Le Scotte)

Carrying out structures

Cardiology Unit, AOUS

Credits awarded internship/traineeship

14

Internship/Internship Hours
350
Internship/traineeship end date
December 2026
Teachers in charge of internships/internships:
Cameli Matteo - Mandoli Giulia Elena
Intermediate verification tests (Modalities)
Colloquy
Assessment methods
Thesis or final paper, Interview aimed at verifying the knowledge acquired
Credits awarded to the final exam
5
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Collegial bodies
Teaching Board
Body composed of all area managers
Board of Directors
Yes