UNITE UNIVERSITÀ DEGLI STUDI DI TERAMO

▪**DEGREE PROGRAM IN BIOTECHNOLOGY**
A.Y. 2025–2026- II SEMESTER

▪**1st Year**

▪INTEGRATED COURSE
STRUCTURE AND FUNCTION OF ORGANISMS
(11 ECTS)

▪**Module – ANATOMY (5 ECTS)**
Prof. Annunziata Mauro

▪**Module – GENERAL PHYSIOLOGY (4 ECTS)**
Prof. Alessia Peserico

▪**Module –ANATOMY LABORATORY (1 ECTS)**
Prof. Annunziata Mauro

▪**Module – GENERAL PHYSIOLOGY LABORATORY (1 ECTS)**
Prof. Alessia Peserico

COURSE OBJECTIVES AND AIMS

The Integrated Course provides students, through lectures and laboratory practice, theoretical knowledge and skills necessary to comprehend the basic mechanisms of organization and function of organs and tissues.

Students must understand the fundamental principles behind cellular and systemic phenomena responsible for physiological signals, integrating knowledge from previous courses (cytology, histology, and cellular physiology).

Additionally, the course aims to enable students to identify the cause-effect relationships between biological processes that determine homeostasis and the effects of control systems on these processes in mammalian models

UNIVERSITÀ DEGLI STUDI DI TERAMO

- **DEGREE PROGRAM IN BIOTECHNOLOGY**

A.Y. 2025–2026- II SEMESTER

- **1st Year**

- **Module – ANATOMY (5 ECTS)**

- **Module –ANATOMY LABORATORY (1 ECTS)**

- Prof. Annunziata Mauro

UNIVERSITÀ DEGLI STUDI DI TERAMO

UNITE

COURSE ANATOMY and ANATOMY LAB.

OBJECTIVES AND AIMS

The Anatomy course provides students with a comprehensive and detailed theoretical framework of the anatomical structures of living organisms, analyzing the similarities and morphological differences among the major animal classes.

Lectures focus on understanding the anatomical foundations of different species, both at the level of individual organs and within complex systems. In particular, students will explore how these structures have adapted to various physiological functions in different environments

EXPECTED LEARNING OUTCOMES

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

- Critically apply experimental methodologies in the biotechnological field, fostering a deeper understanding of the implications of anatomical choices in practical applications.

- Understand experimental methodologies and approaches used in biotechnology for the study of comparative anatomy and its practical implications.

- Have achieved a level of professional, decision-making, and operational autonomy such as to ensure, at the end of the training program, full mastery of all necessary skills and their immediate applicability in the workplace.

COURSE ORGANIZATION

-LECTURES in the classroom
(March 2–31, 2026)

PRACTICAL LESSONS at the Microscopy Teaching Laboratories
(May , 2026)

The practical lessons are carried out under the guidance of the instructor, supported by technical and scientific staff, in teaching laboratories equipped to host students in individual workstations. This allows students to develop a direct and independent approach.

CLASS ATTENDANCE

Attendance is STRONGLY RECOMMENDED.

Enrollment in the Course is encouraged, on a voluntary basis and in compliance with privacy regulations, by providing postal and e-mail addresses on the E-learning Platform.

Attendance in the Teaching Laboratory is permitted only after completion of the enrollment process and successful completion of the Safety Course.

ASSESSMENT METHOD

- **WRITE ASSESSMENTS (generally one week before the Official exam):**

Tests with multiple-choice questions through a computerized procedure, booked via the Reservation Form on the E-LEARNING PLATFORM.

FINAL ASSESSMENT: Students who have successfully passed the Intermediate Assessment may access the OFFICIAL FINAL EXAM.
OFFICIAL BOOKING THROUGH THE ONLINE STUDENT OFFICE USING UNITE CREDENTIALS

During the Official Exam session, the student may:
register the grade obtained in the Intermediate Assessment, or take an oral exam to improve the final score (to be indicated when booking the official exam).

The oral exam will focus on theoretical knowledge, ability to apply concepts in practical contexts, methodological and instrumental skills, awareness of critical issues in different operational contexts, and the ability to communicate using appropriate scientific language.

ASSESSMENT METHOD

A STUDENT FAILS THE FINAL EXAM

They may access the subsequent scheduled final assessments within the exam session period.

Otherwise, the student must repeat the computerized intermediate assessment.

EXAM PROGRAM

Course Catalogue
https://unite.coursecatalogue.cineca.it/insegnamenti/2025/7817-4/2025/9999/10421?coorte=2025&schemaid=1128&adCodRadice=A000711

Module's Books

Pawlina W, "Histology A Text and Atlas - With Correlated Cell and Molecular Biology" IX 2023, Editor Lippincott Williams, ISBN 9781975181574

Anatomy and Physiology of Domestic Animals, by R. Michael Akers, D. Michael Denbow. Editor: John Wiley and Sons Ltd, EAN: 9781118356388

The Anatomy Coloring Book, Autori: Kapit, Wynn; Elson, Lawrence M. ISBN 13: 9780064550161.

Contacts

Teacher	**Prof. Annunziata Mauro**
EMAIL	amauro@unite.it
Phone office	0861.266888
Receiving Students	Monday, 12:00–1:00 PM, by appointment via email

Enrollment in the e-learning platform course:in order to consult the teaching materials and receive all related organizational information.