Universidad Rey Juan Carlos

TEACHING GUIDE

Human Morphology

GRADO EN INGENIERÍA BIOMÉDICA (INGLÉS) (1º y 2º curso)

ACADEMIC YEAR 2026-27

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I.-Subject Identification	
Type	OBLIGATORIA
Teaching period	1 course, 1Q semester
Nº of credits	6
Language in wich the subject is taught	English

II.-Presentation

The objective of this course is for students to know the basic concepts of biology related to the normal macroscopic (anatomical) structure of the human body, as well as its normal microscopic structure across different levels of organization, including the cellular, tissue, organ, and system levels. This knowledge will enable them to comprehend the fundamental principles underlying the structural and functional organization of the human body.

To acquire the competencies of this subject, students will engage in a variety of training activities that integrate both traditional learning methodologies, active learning strategies, and simulation-based learning. They will practice collaboratively with their peers, conduct various explorations and anatomical or histological identifications, and apply techniques for assessment, evaluation, and treatment relevant to human morphology and biomedical context. These activities may involve identifying parts of their own body or simulating pathological situations to reinforce learning outcomes. Practical sessions are compulsory and will be supervised at all times by faculty members. Participation in these sessions is essential to ensure the acquisition of the necessary competencies. Failure to attend or complete the required practical activities will prevent the student from acquiring the necessary learning outcomes and, consequently, they will not pass the subject.

III.-Learning outcomes

COM16. Ability to identify, formulate and solve engineering problems in their field of study; to select and apply relevant methods from established analytical, computational and experimental methods; to recognise the importance of non-technical ¿societal, health and safety, environmental, economic and industrial ¿ constraints. (EURACE 2.2)

CON05. Understand or acquire the principles of bioelectrical fundamentals, ana-tomy, physiology or pathophysiology needed to identify the most appropriate processing technolo-gies for a given problem in biomedical engineering.

CON11. Understand the principles of how an organism functions from the cellular level, through the tissue level, up to the biological system level.

CON12. Understand the functioning of the molecular bases of genetics and proteins, the concepts of microbiology, phar-macology, and proteomics, and their applications in biomedicine.

CON20. Knowledge and understanding of the mathematics, computation and other basic sciences underlying their engineering specialisation, at a level necessary to achieve the other programme outcomes. (EURACE 1.1)

- Key for degrees not adapted to RD 822/21: **CB** - basic competences, **CG** - generic competences, **CE** - specific competences, **CT** - transversal competences.
- Key for degrees adapted to RD 822/21: **CON** - knowledge, **COM** - competences, **HAB** - skills.

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IV.-Contents

IV.A.-Syllabus

1. THEORETICAL CONTENT

MODULE 1. HUMAN ANATOMY

I. INTRODUCTION TO THE HUMAN ANATOMY

Unit 1. Anatomy basics

-Definition of anatomy
-Anatomic terminology
-Anatomic position
-Body shafts and planes

II. NERVOUS SYSTEM

Unit 2. Introduction to the nervous system

-Introduction
-Definition
-Morphofunctional relationship

Unit 3. Brain

-Brain
-Diencephalon
-Brain stem
-Cerebellum
-Cranial nerves

Unit 4. Spinal cord

-Macroscopic anatomy
-Gray substance, dorsal and ventral horns
-White substance, dorsal, lateral and anterior cords

Unit 5. Nervous pathways

-Ascending tracts
-Descending tracks

Unit 6. Protection of the central nervous system

-Cerebrospinal fluid
-Ventricular system
-Meninges

Unit 7. Vascularization. Brain angiography

-Arterial Network
-Venous drainage

Unit 8. Autonomic and endocrine nervous system

-Sympathetic division
-Parasympathetic division

III. RESPIRATORY SYSTEM

Unit 9. Conducting portion

-Nose
-Pharynx
-Larynx
-Trachea, bronchi

Unit 10. Respiratory portion

-Lungs and pleura
-Bronchi, bronchioles and alveoli. Gaseous exchange
-Mediastinum: regions, boundaries and components

IV. CARDIO-CIRCULATORY SYSTEM

Unit 11. Heart. Cardiac angiology

-External anatomy

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-Internal anatomy. Cardiac cavities and valves
-Heart impulse conduction system
-Cardiac vascularization
Unit 12. Circulatory system
-Main arteries
-Deep and superficial venous networks
-Lymphatic system
V. DIGESTIVE SYSTEM
Unit 13. Anatomy of the gastrointestinal tract
-Mouth
-Salivary glands
-Esophagus
-Stomach
-Small intestine
-Large intestine
Unit 14. Glands attached to the digestive system
-Liver
-Gallbladder
-Pancreas
Unit 15. Vascularization of the digestive system. Peritoneum
-Mesenteric arteries and veins
-Hepatic portal circulation
-Peritoneum: parietal and visceral peritoneum
VI. GENITOURINARY SYSTEM
Unit 16. Urinary system
-Kidney
-Ureters
-Bladder
-Urethra
Unit 17. Male genital system
-Testicles and spermatozoids
-Ducts system
-Accessory glands
Unit 18. Female genital tract
-Ovaries and oocytes
-Uterus and uterine tubes
-Vagina and external genitalia
VII. LOCOMOTOR SYSTEM
Unit 19. Trunk
-Bones
-Joints
-Muscles
Unit 20. Upper limbs
-Bones
-Joints
-Muscles
Unit 21. Lower limbs
-Bones
-Joints
-Muscles

MODULE 2. CYTOLOGY AND HISTOLOGY
I. CELL BIOLOGY

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Unit 1. Cell biology techniques
Optical and electron microscopy. Cytological and histochemical techniques. Immunocytochemistry and histology. Cellular and organotypic cultures. Separative cellular and subcellular techniques.
Unit 2. Cell membrane
Functions and composition. Lipid rafts. Glycocalyx. Channel proteins. Passive and active transport. Receptors and signal transduction: cell signaling and cell communication. Action potentials. Proteins and adhesion complexes. Cell-cell and cell-substrate recognition and adhesion in tissue integrity. Key differences for movement and communication. Specializations of the plasma membrane.
Unit 3. Nucleus
Structure and dynamics. Nuclear envelope, nuclear pore complex and nucleocytoplasmic trafficking. Nucleoskeleton and its functions. Nucleolus. Organization of the chromatin fiber. Transcriptionally active and inactive chromatin. Histones and transcription regulation.
Unit 4. Cell cytoplasm I: from the nucleus to the cytoplasm
Translation in free and membrane-bound ribosomes. Fate of proteins. Maturation and protein degradation. Smooth endoplasmic reticulum, lipid synthesis, and cellular detoxification metabolism. Vesicular traffic. Functions and polarization of the Golgi apparatus.
Unit 5. Cell cytoplasm II: vesicular transport, cell digestion, cellular energy systems
Regulation of exocytosis, endocytosis, and transcytosis. Regulation of intracellular digestion and the role of lysosomes. Alternative routes of exocytosis (exosomes). Peroxisomes and mitochondria. Distribution within the cell. Synthesis of their components and growth.
Unit 6. Cytoskeleton
General structure and distribution of microfilaments, intermediate filaments, and microtubules. Polymerization. Concept of dynamic stability. Proteins associated with the cytoskeleton. Stabilizing drugs and destabilizing factors. Cortical cytoskeleton. Role of the cytoskeleton in cell motility and intercellular adhesiveness.
Unit 7. Cell cycle and cell life regulation
Cell cycle phases and control points. Mitosis. Cell senescence. Necrosis and apoptosis, and other forms of cell death. Mechanisms of apoptosis control. Features and consequences on tissues. Pathological consequences of deregulation. Cancer.
Unit 8. Cell differentiation and stem cells
Stem cells. Types of stem cells in embryonic and adult tissues.
II. FROM CELLS TO TISSUES
Unit 9. Basics of developmental biology
Meiosis and gametogenesis. Fertilization, pre-implantation development, and implantation stages. Post-implantation development. Derivatives of the three embryonic germ layers. Development of the body plan.
III. GENERAL HUMAN HISTOLOGY
Unit 10. Epithelial tissue I
General characteristics. Morphological and structural features of epithelial cells. Classification of epithelia. Cell renewal in epithelium.
Unit 11. **Epithelial tissue II**
Glandular epithelia. Classification of glands. Types and mechanisms of secretion. Exocrine and endocrine glands: classification, types, and structure.
Unit 12. **Connective tissue**
General concepts. Functions. Components: cells, fibers, and extracellular matrix. Classification: types and varieties. Concept of parenchyma and stroma.
Unit 13. Blood
General concepts. Blood plasma and cells. Structure and function of erythrocytes, leukocytes and platelets.
Unit 14. Adipose tissue
General characteristics. White adipose tissue. Brown adipose tissue. Impact on human pathology.
Unit 15 Cartilaginous tissue
General features. Cells. Matrix. Types of cartilaginous tissue. Growth and nutrition. Perichondrium.
Unit 16. Bone tissue
General features. Components: bone matrix and cells. Immature bone tissue. Types: compact and spongy bone tissue. Periosteum and endosteum. Osteogenesis: types of ossification (membranous and endochondral). Growth and remodeling of bone. Mechanisms of fracture repair.

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Unit 17. Muscle
Skeletal striated muscle tissue. Cardiac muscle: striated tissue. Smooth muscle tissue. Structure. Histophysiology of contraction.
Unit 18. Nervous tissue
General organization of nervous tissue. Neurons: classification and structure. Synapses. Glial cells: astrocytes, microglial cells, oligodendrocytes, ependymal cells, Schwann cells, and satellite cells. Nerve fibers: myelinated and non-myelinated.
Unit 19. Introduction to Tissue Engineering
Fundamentals and applications.
Unit 20. General concepts of body organ systems
Integumentary system. Cardiovascular system. Respiratory system. Digestive system. Urinary system. Endocrine system. Male and female reproductive systems. Central nervous system. Lymphoid organs.

2. PRACTICAL CONTENT

I. Anatomy practical sessions.
Anatomical models.
II. Cytology and Histology practical sessions.
Guided observation and classification of histological preparations in the laboratory.

IV.B.-Training activities

Type	**Title**
Practical sessions	Practical sessions with anatomical models
Practical sessions	Lab practices on histological preparations
Theoretical sessions	Master classes
Test and/or exams	Theoretical and practical exams
Oral presentations	Short oral presentation, group assignment
Academic tutorials	Conveniently scheduled tutoring sessions

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V.-Student workload	
Theoretical sessions	30
Resolution of exercises, problems, case studies, etc.	14
Practical sessions in experimental, technological and clinical laboratories, fieldwork, etc.	13
Tests and/or exams	3
Academic tutorials	44
Related activities: conferences, seminars, etc.	4
Preparation of theoretical sessions and self-study	26
Preparation of practical tasks, exercises, case studies, projects, etc.	24
Preparation for tests and/or exams	22
Total student workload	180

VI.-Methodology and academic programme		
Type	**Period**	**Content**
Practical sessions	Week 3 to Week 6	Anatomy practical sessions, with anatomical models
Theoretical sessions	Week 7 to Week 14	Master classes on the Cytology and Histology module syllabus
Practical sessions	Week 12 to Week 14	Cytology and Histology practical sessions: Lab practical sessions on histological preparations
Active methodologies or innovative teaching	Week 10 to Week 14	Short oral presentations on topics related to human morphology applications in Biomedical Engineering
Theoretical sessions	Week 1 to Week 6	Master classes on the Anatomy module syllabus

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VII.-Assessment methods

The general assessment method is continuous as established in the *Regulation for the Assessment of Learning Outcomes* of Rey Juan Carlos University.
All the assessment systems established in the degree report must be employed, except for those that have a minimum weight of 0%, which can be used by professors in the academic years they consider relevant. Each assessment system may be applied through one or more assessment activities, consistent with the system. No assessment activity can exceed individually 60% of the overall grade for the subject.
The sum of non re-evaluable activities cannot exceed 40% of the overall grade for the subject and, in general, should not have an established minimum grade (except for practical activities in which, strictly speaking, the conditions of the ordinary call cannot be reproduced in the extraordinary call).
Those students who do not manage to pass the subject in the ordinary call, or do not attend this first call, may attend the extraordinary call only for failed re-evaluable assessment activities.
The distribution and characteristics of the assessment activities are described below.

VII.A.-Description and weight of the assessment activities

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The course comprises a theoretical part and a practical part, both of which must be passed separately to pass the course. Failure in one of the parts results in failure in the global grade of the entire course.

1. Assessment of the theoretical block

The theoretical component is divided into two modules: the Anatomy module, and the Cytology and Histology module.

- **First theoretical partial test** covers the whole Anatomy module and will be held during the term time.
- **Second theoretical partial test** covers the Cytology and Histology module and will be held during the ordinary examination period.

Both exams are multiple-choice tests covering their respective theoretical contents. To pass each multiple-choice tests, students must achieve at least **70% correct answers**, corresponding to a minimum grade of 5 on a scale of 0 to 10. Incorrect answers do not deduct points. These theoretical tests are **re-assessable** in the extraordinary call. The partial test for the Anatomy module is weighted 35%, and the partial test for the Cytology and Histology module is weighted 45% towards the final course grade. Both exams will cover the entire syllabus of their respective modules. All evaluation tests will be conducted in person.

In addition, **three short continuous assessment tests (short tests)** will be conducted during the semester: one for the Anatomy module and two for the Cytology and Histology module. These tests **account for 5% of the final course grade, do not require a minimum passing grade**, and are **not re-assessable.**

2. Assessment of the practical block

The practical component of the course consists of sessions for both modules: Anatomy module, and Cytology and Histology module. Both practical parts will be held at the Alcorcón campus of Rey Juan Carlos University. Attendance at practical sessions is mandatory for all students, including both new students and students retaking the course.

- Anatomy practical sessions involve work with anatomical models. These practical sessions take place during the term time, with evaluation at their conclusion. The practical assessment weight is 5% of the total course grade.
- Cytology and Histology practical sessions involve guided observation and classification of histological preparations in the laboratory. These practical sessions will be carried out during the term time, and the evaluation will be conducted during the practical sessions. Assessment will be conducted through the completion of a laboratory notebook, in which students will record, organise and interpret their observations made during the practical sessions. The practical assessment weight is 5% of the total course grade.

Practical assessment for both parts of the course are **re-assessable activities** in the extraordinary call. Students must demonstrate having acquired the skills required in the subject during the preparation and development of the practical sessions, for which they must attend and pass the minimum grade in these evaluation activities.

3. Assessment of a short oral presentation

5% of the global grade will be allocated to a group oral presentation. In this assignment, students will explore and present a topic of scientific, technical, social, or cultural relevance that highlights the fundamental role and practical applications of concepts, tools and contents developed throughout this course within the field of Biomedical Enginering. The presentation will take place towards the end of the term time. This evaluation activity is cumulative, has **no minimum grade requirement** to pass it, and is **non re-assessable** in the extraordinary call.

Evaluation system	Evaluation activities	Modality	Weight	Minimum grade	Re-assessable in the extraordinary call	Content	Date
Written test, theoretical content (SE02)	Partial test 1, Anatomy	Individual	35%	5	Yes	Anatomy syllabus	Term time
	Partial test 2, Cytology and Histology	Individual	45%	5	Yes	Cytology and histology syllabus	Ordinary call
	3 short tests (1 Anatomy, 2 citology and histology)	Individual	5%	No (cumulative)	No	Anatomy, cytology and histology syllabus	Term time

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Evaluation of lab practices (SE05)	Lab practices on anatomical models	Individual	5%	5	Yes	Anatomical models	Term time
	Lab practices on histological preparations	Individual	5%	5	Yes	Lab practices on histological preparations	Term time
Short oral presentation (SE03)	Short presentation on a relevant topic related to human morphology in the field of biomedical engineering	Group assignment	5%	No (cumulative)	No	Current topics in human morphology applications in biomedical engineering	Term time

Calculation of the final or global grade

The **final** or **global grade** is calculated as the **weighted average** of the grades of all the evaluation activities. To pass the course, the global grade must be a 5 or higher, as long as the minimum grade indicated for each of the activities has been passed. If one or more evaluation activities have not been passed with the minimum grade, it will mean failure in the global grade of the whole course (the final grade of the course will be the average grade obtained among all the evaluation activities carried out, taking into account that it cannot exceed 4,9). If none of the evaluable activities have been taken, the final grade will be “No-show”.

Extraordinary call

The weighting and conditions of the assessment will remain the same in ordinary and extraordinary calls. In the extraordinary call, only the re-assessable activities which have not been passed may be taken. To calculate the final grade in the extraordinary call, both the grades of the evaluation activities obtained in the ordinary call and the grades obtained in the re-assessed activities will be used. The calculation of the final or global grade will be carried out as indicated in the previous section. The re-assessment of the evaluation activities will be carried out on the official date indicated for the extraordinary call.

Anticipated call

The anticipated call will be governed by the provisions of article 19 of the Regulation on the Assessment of Learning Outcomes at Rey Juan Carlos University, approved on June 12, 2024. Students who request an anticipated call must contact the professor responsible for the subject as soon as possible to receive the necessary information and/or materials for the evaluation. The evaluation method used for this call will be the same as that previously described.

Other observations or clarifications

The faculty may make use of automatic plagiarism detection tools. All the submitted works must be original, so productions made by other people than those reflected in the authorship of the work cannot be used without crediting the source. Teachers reserve the right to require a defense in person of all or part of the authors of the work if they deem it necessary.

It is also reminded that, according to article 8.g). of the Coexistence Regulations at Rey Juan Carlos University (https://www.urjc.es/images/Universidad/Presentacion/normativa/normativa%20convivencia%20universitaria.pdf), academic fraud in any evaluation activity is considered a very serious offense. The sanctions for such offenses, according to Article 11 of the aforementioned regulations, are temporary expulsion from the University, and the loss of enrollment rights, if applicable.

Taking photographs, recording videos or making voice recordings during classes is strictly prohibited without prior notice and the professor’s approval.

For the evaluation activities, students must come with pencils, pen and tippex.

VII.B. Assessment of students with academic exemption from class attendance

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Having Academic Exemption from Class Attendance (DAAC) does not imply that students are automatically exempt from participating in the continuous assessment activities or in the training activities of compulsory attendance as established in the teaching guide. Once the exemption has been granted, students must contact the subject's teaching staff, who will propose the adaptations he/she may consider relevant, as long as they guarantee the acquisition and adequate assessment of the learning goals established. Students must maintain adequate communication with the teaching staff so that they may provide information on the dates for training and assessment activities, if these are not established in the programme and available for students at the time of achieving the exemption.
Subject with possibility of academic exemption: Yes.

VII.C. Review of assessment activities

In accordance with the Regulation for the Assessment of Learning Outcomes of Rey Juan Carlos University.

VII.D.-Students with a disability or special educational needs

In order to guarantee equal opportunities, non-discrimination, universal accessibility and academic success, students with disabilities or especial education needs may request curricular adaptations to follow their studies. These adaptations will be provided by the Unit of Attention to People with Disabilities of Rey Juan Carlos University, in accordance with the regulation which regulates the service for the Attention of People with Disabilities at the University. This Unit will issue a report for curricular adaptations, so that students with disabilities or special education needs must contact the service (at e-mail discapacidad.programa@urjc.es) in order to provide relevant information for different educational alternatives.

VII.E.-Academic behaviour, academic integrity and honesty

Rey Juan Carlos University is fully committed to the highest standards of academic integrity and honesty, so studying at the URJC means assuming and subscribing to the values of integrity and academic honesty set out in the University's Ethical Code. To support this process, the University has Rey Juan Carlos University's Academic Conduct Regulation as well as different tools (anti-plagiarism, supervision...) that offer a collective guarantee for the full development of these essential values.

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VIII.-Teaching resources and materials

Basic bibliography

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https://www.histology-world.com/
https://mmegias.webs.uvigo.es/
https://www.anatomyatlases.org/MicroscopicAnatomy/MicroscopicAnatomy.shtml (Universidad Iowa)
https://www.pathologylive.com/practicas-histologia/index.html (Universidad Complutense de Madrid)

IX.-Professors

Name and surname	JOSÉ DELCÁN GIRÁLDEZ
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Department	Ciencias Básicas de la Salud
Campus	Fuenlabrada

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Category	Profesor/a Contratado/a Doctor/a
Academic degree	Doctor
Person responsible for the subject	No
Tutorial timetable	Para consultar las tutorias póngase en contacto con el/la profesor/a a través de correo electrónico
Number of quinquennia	4
Number of sexennia	1
No. of positive evaluations by Docentia	0
Name and surname	LIDIA MARTÍNEZ FERNÁNDEZ DE SEVILLA
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Department	Ciencias Básicas de la Salud
Campus	Fuenlabrada
Category	Profesor/a Permanente Laboral
Academic degree	Doctor
Person responsible for the subject	Yes
Tutorial timetable	Para consultar las tutorias póngase en contacto con el/la profesor/a a través de correo electrónico
Number of quinquennia	1
Number of sexennia	1
No. of positive evaluations by Docentia	1

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