



UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: INTEGRATED MORPHOLOGY, STRUCTURE AND FUNCTION OF T

Type: CORE COURSE

Degree: 332 - UNDERGRADUATE DEGREE PROGRAMME IN MEDICINE

Center: 9 - FACULTY OF MEDICINE OF CIUDAD REAL

Year: 2

Main language: Spanish

Use of additional languages:

Web site:

Code: 34310

ECTS credits: 33

Academic year: 2023-24

Group(s): 20

Duration: AN

Second language: English

English Friendly: Y

Bilingual: N

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2. Pre-Requisites

According to the Table of Prerequisites and Incompatibilities of the Medical Degree Curriculum, in order to pass MORPHOLOGY, STRUCTURE AND INTEGRATED FUNCTION OF THE HUMAN BODY it is necessary to have passed the first year subjects BIOLOGY, BIOCHEMISTRY I, HISTOLOGY, HUMAN ANATOMY I, HUMAN ANATOMY II and PHYSIOLOGY.

Timetables can be consulted at: <https://www.uclm.es/es/ciudad-real/medicina/Grado/justificacion/planificaciondocente>

3. Justification in the curriculum, relation to other subjects and to the profession

The subject "Integrated Morphology, Structure and Function of the Human Body" belongs to Module I (Morphology, Structure and Function of the Human Body) and to Subject 1.2 (Development, Structure and Function of the Healthy Human Body at Tissue, Organ and Systems Level) of the Teaching Plan of Medicine. It is

a compulsory subject, with 33 ECTS and is taught throughout the second year.

The Study Plan of the Degree in Medicine is adapted to the requirements established in the Royal Decree 1393/2007, of October 29th (B. O. E. of October 30th, 2007), in the Order ECI/332/2008, of February 13th (B. O. E. of February 15th, 2008) and in the agreements adopted by the Medicine Degree Commission of May 28th, 2008 and June 30th, 2008. According to current legislation, the degree of Graduate in Medicine consists of 360 ECTS distributed over 6 academic years and structured in at least 5 modules, with defined competences, as the medical profession is a regulated profession. The five modules of common subjects are defined by the content of the subjects that include compulsory subjects for the Degree in Medicine. The sixth module has been defined according to the optional nature of the subjects that comprise it. In the first two years of the degree the necessary basic preclinical subjects are taught (Modules 1 and 2) that will provide students with the necessary elements for the foundation of the clinical knowledge and medical skills that they will acquire later (Modules 3, 4, 5 and 6), promoting the early insertion of students in health centers.

The subject therefore includes the study and knowledge of the different systems that make up the body and its functions in the state of health and is designed for medical students to acquire all those skills that enable them to understand the multiple forms of destabilization of the balance that we call health, to fall into the disease. But it also provides them with the skills they will need during their professional practice, not only to restore and maintain the balance through healing, but also to prevent and avoid pathological situations. And all this, from a basic approach, but in a context of cooperation and collaboration with professionals from different disciplines, within a scientific and clinical environment.

It is necessary to pass the subject of Integrated Morphology, Structure and Function of the Human Body to pass the following subjects:

- Human Pathology I (M3.2).
- Human Pathology II (M3.3)
- Pathologies of the Skin (M3.4)
- Ophthalmologic Pathologies (M3.5)
- Pathologies of the Ear, Nose and Throat (M3.6)
- Medical Semiology and Propaedeutics (M3.7)
- Maternal and Child Health, Reproduction and Gynecological Pathology (M3.8)
- Mental Health (M3.9)
- Physical Diagnostic and Therapeutic Procedures (M4.1)
- Pharmacological Diagnostic and Therapeutic Procedures (M4.2)
- Surgical Diagnostic and Therapeutic Procedures (M4.3)
- Anatomopathological Diagnostic and Therapeutic Procedures (M4.4)

4. Degree competences achieved in this course

Course competences

Code	Description
1.12	Embryonic development and organogenesis.
1.13	To know the morphology, structure and function of the skin, blood, circulatory, digestive, locomotor, reproductive, excretory and respiratory apparatus and systems; endocrine system, immune system and central and peripheral nervous system.
1.14	Growth, maturation and aging of the different apparatus and systems.
1.15	Homeostasis
1.16	Adaptation to the environment.
1.17	Handling basic laboratory material and techniques.
1.18	Interpret a normal blood test.
1.19	Recognize with macroscopic and microscopic methods and imaging techniques the morphology and structure of tissues, organs and systems.
1.20	Perform functional tests, determine vital parameters and interpret them.
1.21	Basic physical examination.
G07	Understand and recognize the normal structure and function of the human body, at the molecular, cellular, tissue, organic and system levels, in the different stages of life and in both sexes.
G11	Understand and recognize the effects of growth, development and aging on the individual and their social environment.
G36	To be able to formulate hypotheses, collect and critically evaluate information for problem solving, following the scientific method.
G37	To acquire the basic training for research activity.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Learning to design and organize the work. Acquiring habits of perseverance in the study.

Acquisition of oral and/or written presentation and communication skills.

Handle basic laboratory material and techniques. Interpret a normal blood test. Recognize with macroscopic and microscopic methods and imaging techniques the morphology and structure of tissues, organs and systems. Perform functional tests, determine vital parameters and interpret them. Basic physical examination.

6. Units / Contents

Unit 1: Nervous System I: General organization and sensory systems

Unit 2: Nervous System II: motor system, higher and integrative functions

Unit 3: Endocrine system

Unit 4: Cardiovascular system and lymphoid organs

Unit 5: Respiratory system
Unit 6: Digestive system I
Unit 7: Digestive system II
Unit 8: Excretory system
Unit 9: Male reproductive system
Unit 10: Female reproductive system

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities		3.3	82.5	Y	Y	
Class Attendance (theory) [ON-SITE]	Lectures		3.3	82.5	Y	Y	
Progress test [ON-SITE]	Assessment tests		0.44	11	Y	Y	
Final test [ON-SITE]	Assessment tests		0.66	16.5	Y	Y	
Project or Topic Presentations [ON-SITE]	Guided or supervised work		3.3	82.5	Y	Y	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises		2.2	55	Y	Y	
Writing of reports or projects [OFF-SITE]	Assessment tests		1.32	33	Y	N	
Study and Exam Preparation [OFF-SITE]	Self-study		14.08	352	Y	N	
Other off-site activity [OFF-SITE]	Self-study		4.4	110	Y	N	
Total:			33	825			
Total credits of in-class work: 13.2			Total class time hours: 330				
Total credits of out of class work: 19.8			Total hours of out of class work: 495				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Progress Tests	40.00%	0.00%	
Laboratory sessions	22.00%	22.00%	
Final test	30.00%	70.00%	
Assessment of active participation	8.00%	8.00%	
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

A student enrolled for the first time in a subject is entitled to two calls during the academic year:

1. Ordinary call: it comprises the continuous evaluation of all theoretical and practical activities reflected in the timetable attending to the conditions described in the teaching guide of the subject and the minimum attendance requirements to pass the subject.
2. Extraordinary call: It includes the evaluation exclusively of the failed part of the subject in the ordinary call. It consists of a theoretical exam and/or a practical exam. The rest of the marks of the practical part will be those obtained during the course in reports, seminars, presentations, assignments, participation and attitude.

In case of failing the course the first time it is taken, for the following academic year there will be two of this three options:

1. Ordinary call: within this call, two modalities can be chosen:

a. Attendance mode: It includes the continuous evaluation of all theoretical and practical activities reflected in the timetable, complying with the conditions described in the teaching guide of the subject, as if the subject was taken for the first time. Thus, the grades obtained in the previous year will not be taken into account.

b. Non-attendance mode: It includes the evaluation of only the failed part of the subject in the previous course through a theoretical exam and/or a practical exam per semester on the same date as the final exam of each semester. The marks for practical exams other than the practical exam will be kept from the previous course. This modality can only be chosen in the case of having taken the subject in the ordinary call in the previous academic year.

2. Extraordinary call: It includes the evaluation of only the failed part of the subject in the ordinary call either of the current academic year, if the student has chosen the ordinary on-site call, or of the previous academic year, in the rest of the cases. It will consist of a theoretical and/or a practical exam. The rest of the marks of the practical part will be those of the current or previous course. In the case of not having taken the ordinary on-site exam in the current or previous academic year, the grades of previous exams will not be taken into account, since only one course will be kept.

3. Special final exam: This includes the evaluation of only the failed part of the subject in the previous academic year. This call can only be requested in key

subjects. It will consist of a theoretical exam and/or a practical exam. The rest of the marks of the practical part will be those of the previous course. In the case of not having taken the ordinary on-site exam in the current or previous course, the grades of previous exams will not be taken into account since only one course will be kept.

These conditions will only be maintained in the academic year consecutive to the ordinary on-site call of a subject. The grade of the practical or theoretical part passed will only be kept if the minimum attendance requirements to pass the subject described in the electronic guide have been met.

If the subject is not passed in the second academic year, the same biannual cycle criteria described for the first and second year of enrollment will be followed in the third and successive odd numbered years of enrollment.

ORDINARY CALL:

Theoretical evaluation:

70% distributed in:

- 50% module exams: (M1: 5%, M2: 5%, M3: 5%, M4: 5%, M5: 5%, M6: 3%, M7: 3%, M8: 3%, M9: 3%, M10: 3%. Total 40 %)
- 20% final semester exams: M1-5 (20%) y M6-10 (10%).

To pass the course it will be necessary to obtain 40% of this 70%, which means, at least, 2.8 points in the theoretical part of the 10 total points of the course and to fulfill the requirements of the section "Evaluation criteria".

For the module exams (50% of the grade, i.e. 5 points) no minimum grade is established, so all grades obtained will be added together.

For the final exams (20% of the grade, i.e. 2 points) a minimum grade equal to 40% of the maximum grade to be achieved in each final exam is established. In order to favor the weight of the continuous evaluation in the final grade, not reaching the minimum grade established will not mean the impossibility to pass the course, but the points of that final exam will not be added to the rest of the points obtained.

Evaluation of practices, presentations, problems, assignments, participation and attitude:

30% valued jointly as follows for basic subjects:

- DISSECTION EXAMS: M2, 5, 7 and 10 (8 %; 2% each).

- PRACTICES AND PHYSIOLOGY SEMINARS (8 %). 2 exams: M1-5 (5%), M6-10 (3%).

The presentation of the practice notebook is essential for the completion of both exams.

- PRACTICE EXAMS FOR THE IDENTIFICATION AND DIAGNOSIS OF HISTOLOGICAL STRUCTURES (6%): M1, 3, 5, 7 y 10 (Total 3%) and final semester exams (2% first semester and 1% second semester).

- PARTICIPATION AND ATTITUDE (8 %).

To pass the course it will be necessary to obtain 40% of the 30%, which represents at least 1.2 points in the practical part of the 10 total points of the course and to fulfill the requirements of the section "Evaluation Criteria" that appears in the electronic guide.

EXTRAORDINARY CALL, SPECIAL FINAL CALL, ORDINARY NON-ATTENDANCE CALL:

Theoretical evaluation: exam with a weight of 70%. To pass the course it will be necessary to obtain 40% of this 70%, which means at least 2.8 points in the theoretical part of the 10 total points of the course and meet the requirements of the section "Evaluation criteria". In case of having passed the theoretical part of the course in the current or previous year, the grade obtained in the last exam will be maintained.

Practical evaluation: to pass the course it will be necessary to obtain 40% of the 30%, which means at least 1.2 points in the practical part of the 10 total points of the course and to fulfill the requirements of the section "Evaluation criteria". In case of having passed the practical part in the current or previous course, the grade obtained in the last exam will be maintained.

There will be a Practice Exam and the results obtained in the OSCE of the previous ordinary on-site exam, either of the current or previous year, will be taken into account.

Non-continuous evaluation:

See what is described in the previous point.

Specifications for the resit/retake exam:

See what is described in the previous point.

Specifications for the second resit / retake exam:

See what is described in the previous point.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	82.5
Class Attendance (theory) [PRESENCIAL][Lectures]	82.5
Progress test [PRESENCIAL][Assessment tests]	11
Final test [PRESENCIAL][Assessment tests]	16.5
Project or Topic Presentations [PRESENCIAL][Guided or supervised work]	82.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	55
Writing of reports or projects [AUTÓNOMA][Assessment tests]	33
Study and Exam Preparation [AUTÓNOMA][Self-study]	352
Other off-site activity [AUTÓNOMA][Self-study]	110
Unit 1 (de 10): Nervous System I: General organization and sensory systems	
Group 20:	
Initial date: 12-09-2023	End date: 29-09-2023
Unit 2 (de 10): Nervous System II: motor system, higher and integrative functions	
Group 20:	
Initial date: 02-10-2023	End date: 19-10-2023
Unit 3 (de 10): Endocrine system	
Group 20:	

Initial date: 23-10-2023 End date: 10-11-2023	
Unit 4 (de 10): Cardiovascular system and lymphoid organs	
Group 20:	
Initial date: 13-11-2023 End date: 30-11-2023	
Unit 5 (de 10): Respiratory system	
Group 20:	
Initial date: 01-12-2023 End date: 22-12-2023	
Unit 6 (de 10): Digestive system I	
Group 20:	
Initial date: 29-01-2024 End date: 16-02-2024	
Unit 7 (de 10): Digestive system II	
Group 20:	
Initial date: 19-02-2024 End date: 08-03-2024	
Unit 8 (de 10): Excretory system	
Group 20:	
Initial date: 11-03-2024 End date: 05-04-2024	
Unit 9 (de 10): Male reproductive system	
Group 20:	
Initial date: 08-04-2024 End date: 26-04-2024	
Unit 10 (de 10): Female reproductive system	
Group 20:	
Initial date: 29-04-2024 End date: 17-05-2024	
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	82.5
Progress test [PRESENCIAL][Assessment tests]	11
Final test [PRESENCIAL][Assessment tests]	16.5
Project or Topic Presentations [PRESENCIAL][Guided or supervised work]	82.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	55
Writing of reports or projects [AUTÓNOMA][Assessment tests]	33
Study and Exam Preparation [AUTÓNOMA][Self-study]	352
Other off-site activity [AUTÓNOMA][Self-study]	110
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	82.5
Total horas: 825	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Snell, Richard S.	Neuroanatomía clínica (8ª Edición)	Wolters Kluwer		987-84-17602-10-9	2019	
Welsch, Ulrich	Histología	Editorial Médica Panamericana		978-84-9835-178-1	2010	
Young, Barbara	Wheater's histología funcional : texto y atlas en color	Harcourt		84-8174-499-9	2000	
Ross, Michael H.	Histología : texto y atlas : correlación con biología celular	Wolters Klumer,		978-84-16004-96-6	2015	
Drake, RL; Mitchell, A M.W., Wayne, A FAAA	Gray. Anatomía para estudiantes (4ª edición)	Elsevier		978-84-9113-608-8	2020	
Moore, Keith L.	Anatomía con orientación clínica (8ª edición)	Wolters Kluwer Lippincott Williams & Wilkins		978-84-17033-63-7	2018	
Purves, D.	Neurociencia /	Editorial Médica Panamericana,		978-84-9835-754-7	2016	
Rhoades, Rodney A.	Fisiología médica	LIPPINCOTT WILLIAMS & WILKINS		84-1541-963-5	2012	
Ross, Michael H.	Histología : texto y atlas color con biología celular y mole	Panamericana		978-950-06-0322-5	2013	
Sadler, T.W.	Langman embriologa médica (14ª edición)	Wolters Kluwer Lippincott Williams and Wilkins		978-84-17602-11-6	2019	
Bear, Mark F.	Neurociencia : la exploración del cerebro /	Wolters Kluwer Health España,		978-84-16353-61-3	2016	
Dauber, Wolfgang	Feneis nomenclatura anatómica ilustrada	Masson		978-84-458-1642-4	2008	
Gartner, Leslie P. (1943-)	Texto Atlas de Histología	McGraw-Hill		970-10-6651-0	2008	
Hall, John E.	Guyton & Hall : Tratado de fisiología médica /	Elsevier,		978-84-9113-024-6	2016	
Kierszenbaum, Abraham L.	Histología y biología celular : introducción a la anatomía p	Elsevier		978-84-8086-918-8	2012	
Silverthorn, Dee Unglaub	Fisiología humana : un enfoque	Editorial Médica		9786079356149	2014	

