



Information about the subject

Degree: Bachelor of Science Degree in Nursing

Faculty: Faculty of Medicine and Health Sciences

Code: 1211101 **Name:** Human and Functional Anatomy

Credits: 6,00 **ECTS Year:** 1 **Semester:** 1

Module: Common basic training

Subject Matter: Anatomy **Type:** Basic Formation

Field of knowledge: Health sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Common basic training

Subject Matter	ECTS	Subject	ECTS	Year/semester
Anatomy	6,00	Human and Functional Anatomy	6,00	1/1
Physiology	12,00	Human Physiology	6,00	1/2
		Physiopathology	6,00	2/1
Biochemistry	6,00	Clinical Biochemistry	6,00	1/1
Biostatistic	6,00	Biostatistics and Research Methodology	6,00	1/2
Psychology	6,00	Psychology of Care	6,00	1/1
Pharmacology	6,00	Pharmacology	6,00	2/1
Nutrition	6,00	Nutrition and Dietetics	6,00	2/1
ICT	6,00	ICT	6,00	3/1
English	6,00	English	6,00	1/2
Life support	6,00	Emergency Care and Life Support	6,00	4/1

Recommended knowledge

Prerequisites: None established.



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 That students are able to base nursing interventions on scientific evidence and available means.
- R2 That students know and identify the structure and function of the human body.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Students have demonstrated possession and understanding of knowledge in an area of study that is at the core of general secondary education, and is often at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the cutting edge of their field of study.	X			
CB2	Students are able to apply their knowledge to their work or vocation in a professional way and possess the skills usually demonstrated by developing and defending arguments and solving problems within their area of study.		X		
CB3	Students have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include reflection on relevant social, scientific or ethical issues.		X		
CB4	That students can convey information, ideas, problems and solutions to both specialized and non-specialized audiences.	X			
CB5	Students have developed those learning skills necessary to undertake further study with a high degree of autonomy.		X		
GENERAL		Weighting			
		1	2	3	4
CG0	Good Public Speaking.	X			
SPECIFIC		Weighting			
		1	2	3	4
1b	To know and identify the structure and function of the human body.				X



TRANSVERSAL		Weighting			
		1	2	3	4
6	To base interventions in nursing on scientific evidence and on the available means.				X



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	60,00%	Theoretical written exams
	40,00%	Practical tests and works
	0,00%	Attendance and active participation

Observations

In order to pass the course, a 50%-score must be obtained both in the THEORY and in the PRACTICE parts of the exam.

In the event that a student passes the theoretical part of the exam and not the practical part of the exam, the grade for the theoretical part will be saved for the second call, in which they will only have to take the practical part of the exam. The grade that will appear in the minutes will be the one corresponding to the grade of the practical exam out of 10.

In the event that a student passes the practical part of the exam and not the theoretical part of the exam, the grade for the practical part will be saved for the second call, in which they will only have to take the theoretical part of the exam. The grade that will appear in the minutes will be the one corresponding to the mark of the theoretical exam out of 10.

In the event that a student does not pass non of the two parts, in the second or successive calls they must take both parts. The grade that will appear in the minutes will be the one corresponding to the highest grade of the two exams out of 10.

MENTION OF DISTINCTION:

The mention of Distinction will be awarded to students who have achieved a score equal to or higher than 9.0. The number of Distinctions granted will not exceed 5% of students enrolled in a subject in the corresponding academic year unless enrolment is under 20, in which case only one Distinction may be granted. (Royal Decree 1125/2003).

It also depends on the lecturer's opinion. Correction of language use will be assessed. Spelling mistakes, grammatical inconsistencies and sms language will be penalized with a 0.1 point decrease per mistake.

ASSESSMENT CRITERIA:

1. EXAMINATION (80% of the value of the final grade)

80% of the subject will be assessed through ONE SINGLE EXAM, which will be as follows:



1a. Theoretical part of the exam (60% of the value of the final grade)

The theoretical evaluation will be carried out at the end of the course through a theoretical examination, which may consist of:

- Multiple choice questions (40% of the final grade): just one response is correct. The erroneous answers penalize according to the formula $A - (E / n - 1)$. Images may also be requested.
- Short answer questions (20% of the final grade). The student's ability to summarize the information and the contents of the subject is assessed. Images may also be requested.

1b. Practical part of the exam (20% of the value of the final grade)

Practical workshops will be held throughout the development of the subject (will be indicated properly by the lecturer). The practical evaluation will be carried out through a practical examination that will deal with the contents explained in those workshops. The practical exam will be done on the same day as the theoretical one. At the end of the theoretical exam, several photographs of the anatomical models will be projected.

2. ACTIVITIES (20% of the value of the final grade)

20% of the subject will be assessed through activities requested by the teacher in the classroom. These activities will only be taken into account in case the student passes separately the theoretical part and the practical part of the examination. The student who does not deliver these activities will lose 20% of the value of the final grade (2 points out of 10), or the proportional part.

DEVELOPMENT OF THE SUBJECT IN SECOND AND SUBSEQUENT REGISTRATION:

There will be a specific group for non-first-year students and a teacher in charge of that group. An ordinary group will be formed if there are 40 or more students enrolled in second or successive enrolments. In the event that the number of students is lower, 6 teaching sessions will be planned. The responsible teacher will contact the students through the virtual campus, in order to indicate the day and time of those sessions.

In order to pass the course, a 50%-score must be obtained both in the THEORY and in the PRACTICE parts of the exam.

In the event that a student passes the theoretical part of the exam and not the practical part of the exam, the grade for the theoretical part will be saved for the second call, in which they will only have to take the practical part of the exam. The grade that will appear in the minutes will be the one corresponding to the grade of the practical exam out of 10.

In the event that a student passes the practical part of the exam and not the theoretical part of the exam, the grade for the practical part will be saved for the second call, in which they will only have to take the theoretical part of the exam. The grade that will appear in the minutes will be the one corresponding to the mark of the theoretical exam out of 10.



In the event that a student does not pass non of the two parts, in the second or successive calls they must take both parts. The grade that will appear in the minutes will be the one corresponding to the highest grade of the two exams out of 10.

The assessment criteria are detailed below:

1.- EXAMINATION (80% of the value of the final grade)

80% of the subject will be assessed through ONE SINGLE EXAM, which will be as follows:

1a. Theoretical part of the exam (60% of the value of the final grade)

The theoretical evaluation will be carried out at the end of the course through a theoretical examination, which may consist of:

- Multiple choice questions (40% of the final grade): just one response is correct. The erroneous answers penalize according to the formula $A - (E / n - 1)$. Images may also be requested.
- Short answer questions (20% of the final grade). The student's ability to summarize the information and the contents of the subject is assessed. Images may also be requested.

1b. Practical part of the exam (20% of the value of the final grade)

The practical evaluation will be carried out through a practical exam that will deal with images related to contents explained.

2. ACTIVITIES (20% of the value of the final grade)

20% of the subject will be assessed through activities requested by the teacher in the classroom. These activities will only be taken into account in case the student passes separately the theoretical part and the practical part of the examination. The student who does not deliver these activities will lose 20% of the value of the final grade (2 points out of 10), or the proportional part. The deadline to delivery these activities will be the last day of class.

DEVELOPMENT OF THE SUBJECT FOR PUPILS OF INTERNATIONAL MOBILITY (MUNDUS, ERASMUS):

The pupil of international mobility will have to talk with the responsible lecturer in order to inform him/her about this circumstance. The evaluation of contents will be carried out in the special examination concentrated calendar for this subject.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.



Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Exposition of contents by the teacher, analysis of competencies, explanation and demonstration of abilities, skills and knowledge in the classroom.
- M2 Group work sessions supervised by the teacher. Case study, diagnostic analysis, problems, field study, computer room, visits, data search, libraries, network, Internet, etc. Significant construction of knowledge through student interaction and activity.
- M3 Supervised monographic sessions with shared participation.
- M4 Application of interdisciplinary knowledge.
- M5 Activities developed in spaces and with specialized equipment.
- M6 Personalized attention and in small groups. Period of instruction and/or orientation carried out by a tutor with the objective of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc.
- M7 Set of oral and/or written tests used in the initial, formative or summative evaluation of the student.
- M8 Student study: Individual preparation of readings, essays, problem solving, seminars, papers, memoirs, etc. To expose or deliver in the theoretical classes, practical classes and/or small group tutorials. Work done on the university platform (www.plataforma.ucv.es).
- M9 Group preparation of readings, essays, problem solving, papers, memoirs, etc. To present or deliver in the theoretical classes, practical classes, seminars and/or small group tutorials. Work done on the university platform (www.plataforma.ucv.es).



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Face-to-face class M1	R1, R2	33,00	1,32
Laboratory M5, M6	R2	23,00	0,92
Tutorial M6	R1, R2	2,00	0,08
Evaluation M7	R1, R2	2,00	0,08
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Student's self-employment M3, M6	R2	80,00	3,20
Group work M3, M6	R1, R2	10,00	0,40
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
GENERAL CONCEPTS	Item 0. Human Embryology. Item 1. Human Histology. Item 2. General concepts of Anatomy. Organization and human body levels. Organs and systems. Positions and anatomical planes.
MUSCULOSKELETAL SYSTEM	Item 3. Musculoskeletal system: the concept. Skeleton and joints. Item 4 Spine. Ribcage. Back muscles, chest and abdominal wall. Item 5. Upper limb: bones, muscles, vasculature and nerves. Item 6. Lower limb: bones, muscles, vasculature and nerves.
ANATOMY OF THE THORAX	Item 7. Anatomy of the heart. Layers and Cavities. Item 8. Large arterial vessels: structure, classification, location and general distribution. Item 9. Large venous and lymphatic vessels: Structure and general distribution. Item 10. Anatomy of respiratory system. Lungs.
ANATOMY OF THE ABDOMEN	Item 11. Upper digestive tract: General Survey, vascularization. Mouth, esophagus, stomach and duodenum. Digestive Tract: Small intestine, thick and straight. Annexes to the digestive system: salivary glands, liver, biliary tract, pancreas and spleen.
ANATOMY OF THE PELVIS	Item 12. Renal System: Kidney and renal pelvis Excretory system, ureter, bladder and urethra. Item 13. Female genital system: Ovary, Fallopian tubes, uterus, vagina and external genitalia. Male genital system: Testis and covers. Seminal tract. External genitalia.



NERVOUS AND ENDOCRINE SYSTEMS

Item 14. Neuroendocrine system: Pituitary, Thyroid, Parathyroid and Adrenal glands. Item 15. Nervous system concept. Classification. Autonomic nervous system. Study of the Spinal Cord and the Brainstem, Cerebrum and Cerebellum ascending and descending pathways.

SPECIAL SENSES

Special Senses: Touch, Smell, Taste Vision and Hearing.

PRACTICES

Practice 1

Bones and muscles of the head. Bones of the spine and the rib cage. Musculature of the back, thorax and abdominal wall.

Practice 2

Bones, muscles, vascularization and innervation of the upper limb. Bones, muscles, vascularization and innervation of the lower limb.

Practice 3

Cardiac chambers. Vascularization and innervation of the heart. Location of the great arterial and venous vessels.

Practice 4

Location and distribution of the upper and lower airways. Location and distribution of the digestive system. Vascularization.

Practice 5

Location and distribution of the renal and excretory system. Vascularization. Location and distribution of the female genital system. Vascularization. Location and distribution of the male genital system. Vascularization.

Practice 6

Location and distribution of the Central Nervous System. Location and distribution of the endocrine glands. Organs of the senses: description



Temporary organization of learning:

Block of content	Number of sessions	Hours
GENERAL CONCEPTS	2,00	4,00
MUSCULOSKELETAL SYSTEM	3,50	7,00
ANATOMY OF THE THORAX	3,00	6,00
ANATOMY OF THE ABDOMEN	3,00	6,00
ANATOMY OF THE PELVIS	2,00	4,00
NERVOUS AND ENDOCRINE SYSTEMS	3,00	6,00
SPECIAL SENSES	2,00	4,00
PRACTICES	11,50	23,00

References

Netter. Human Anatomy. 7 edición. 2019. Elsevier. Sobotta. Human Anatomy. 24 edición. 2018. Elsevier.

Clinically Oriented Anatomy Keith L. Moore, Arthur F. Dalley, A. M. R. Agur. Lippincott Williams & Wilkins (2009).

Essential Clinical Anatomy. Moore and Agur. Lippincott Williams & Wilkins (2007)

Langman's Medical Embryology, T.W. Sadler, 8th edition, Lippincott, Williams & Wilkins, 2000.

Tortora, G. y Derrickson, B. (2018) *Principles of Anatomy and Physiology*. (15ªed.). Editorial Médica Panamericana.



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☐ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒

Microsoft Teams

☐

Kaltura

Explanation about the practical sessions:



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: