



**ASU**  
جامعة العلوم التطبيقية الخاصة  
APPLIED SCIENCE PRIVATE UNIVERSITY

AMMAN - JORDAN



المستوى الذهبي

جامعة كل العرب

**Course Syllabus**  
**Faculty of Arts and Science**

**Academic Department Basic Science and Humanities**

**Academic Year 2021 / 2022 Semester: Second**

|                            |   |
|----------------------------|---|
| <b>Course Title :</b>      | Anatomy   |
| <b>Course No. :</b>        | 1501158   |
| <b>Prerequisite :</b>      | None  |
| <b>Concurrent :</b>        | None  |
| <b>Department :</b>        | Basic Science and Humanities  |
| <b>Coordinator :</b>       | Msc. Hana' Al Mughrabi  |
| <b>Mode of Instruction</b> | <b><u>Blended Learning</u></b><br>- 2 hours in-class (Synonym) learning<br>- 1 hour online asynchronous learning using Edu-Gate |

**\* Instructor:**

| Lecturer          | Office Phone | Room No. | Office Hours | E-mail                       |
|-------------------|--------------|----------|--------------|------------------------------|
| Hana' Al Mughrabi | ----         | ----     | Thu 10 - 11  | <i>h_mughrabi@asu.edu.jo</i> |

**Course Description**

This course presents a systemic approach to the study of the human body. Course topics begin with an introduction of anatomical terminology and an overview of cellular processes and tissue classification. Students then are introduced to the gross and microscopic anatomy of the following systems: integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine.

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رمز النموذج: UF 28 / 2

رقم القرار 24 / 233

تاريخ الاعتماد 2021/10/18



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## Intended Learning Outcomes

Following the successful completion of this course, the student should be able to:

### *A. Knowledge and understanding:*

- A1. Identify different body tissues and correlate between tissue structure and location.
- A2. Understand and use the anatomical terminology.
- A3. Describe the components of each body system.

### *B. Subject specific skills:*

- B1. Recognize the interrelationships within and between different body systems.
- B2. Interpret graphs of anatomical and histological data.
- B3. Identify the characteristic features for each body part.

### *C. Cognitive and Intellectual skills:*

- C1. Synthesize ideas to make a connection between body structures and functions.
- C2. Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and histology.
- C3. Correlate between cells structure and tissue type.

### *D. Transferable Skills:*

- D1. Use of anatomical knowledge to predict functions of each system.
- D2. Develop appropriate anatomical terminology.

## Program Learning Outcomes (PLOs):

1. -----
2. -----
3. -----
4. -----
5. -----

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| Course Learning Outcomes Alignment Matrix |        |        |        |        |
|---|--------|--------|--------|--------|
|   | CLO. 1 | CLO. 2 | CLO. 3 | CLO. 4 |
| PLO.1:                                    | -      | -      | -      | -      |
| PLO 2:                                    | -      | -      | -      | -      |
| PLO.3:                                    | -      | -      | -      | -      |
| PLO.4:                                    | -      | -      | -      | -      |
| PLO. 5                                    | -      | -      | -      | -      |

Course Contents and Schedule

| Week | Day and Date     | Topics to be covered  | Method of instruction | CLOs                               | PLOs |
|------|------------------|---|-----------------------|------------------------------------|------|
| 1    | Sun. 6/3/2022    | <b>Introduction:</b> includes basic definitions in anatomy, directional terms, body planes, body cavities and cell structure.   | In-class lecture      | <b>A2, C2 &amp; D2</b>             | -    |
|      | Tues. 8/3/2022   |   | In-class lecture      |                                    |      |
|      | Thurs. 10/3/2022 |   |                       |                                    |      |
| 2    | Sun. 13/3/2022   | <b>Epithelial tissues:</b> classification and distribution of epithelial tissue, glandular epithelium structure and classification.   | In-class lecture      | <b>A1, B2 &amp; C3</b>             | -    |
|      | Tues. 15/3/2022  |   | In-class lecture      |                                    |      |
|      | Thurs. 17/3/2022 |   |                       |                                    |      |
| 3    | Sun. 20/3/2022   | <b>Connective tissue:</b> types, structure, and distribution.<br><b>Muscular tissue:</b> types of muscle tissue.<br><b>Nervous tissue:</b> structure of nerve tissue. Neuralgia of CNS and PNS. | In-class lecture      | <b>A1, B2 &amp; C3</b>             | -    |
|      | Tues. 22/3/2022  |   | In-class lecture      |                                    |      |
|      | Thurs. 24/3/2022 |   |                       |                                    |      |
| 4    | Sun. 27/3/2022   | <b>The integumentary system:</b> structure of   | In-class lecture      | <b>A3, B1, B2, B3, C1 &amp; D1</b> | -    |
|      | Tues. 29/3/2022  |   | In-class lecture      |                                    |      |



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|    |                      |   |                       |                                   |   |
|----|----------------------|---|-----------------------|-----------------------------------|---|
|    | Thurs. 31/3/2022     | the skin, accessory structures in the skin, structural basis of skin and hair colors.<br><b>The skeletal system:</b> divisions of the skeletal system, types of bones, bone surface markings, bones of the axial skeleton.  |                       |                                   |   |
| 5  | Sun. 3/4/2022        | <b>The appendicular skeleton:</b> pectoral girdle and upper limbs, pelvic girdle and lower limbs, false and true pelvis, comparison of female and male pelvis.<br><b>Joints:</b> classification of joints, types of movements at synovial joints, types of synovial joints. | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|    | Tues.5/4/2022        |   |                       |                                   |   |
|    | Thurs. 7/4/2022      |   | In-class lecture      |                                   |   |
| 6  | Sun. 10/4/2022       | <b>Skeletal muscle:</b> microscopic anatomy of a skeletal muscle fiber, the neuromuscular junction, muscle attachment sites, principle skeletal muscles.  | In-class lecture      | <b>A3, B1, B2, B3, C1&amp;D1</b>  | - |
|    | Tues.12/4/2022       |   |                       |                                   |   |
|    | Thurs. 14/4/2022     |   | In-class lecture      |                                   |   |
| 7  | Sun. 17/4/2022       | The nervous system: organization of the nervous system, spinal cord and spinal nerves, external and internal anatomy of the spinal cord, distribution of spinal nerves.   | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|    | Tues. 19/4/2022      |   |                       |                                   |   |
|    | Thurs. 21/4/2022     |   | In-class lecture      |                                   |   |
| 8. | <b>MID Term Exam</b> |   |                       |                                   |   |
| 9  | Sun. 1/5/2022        | <b>The brain anatomy:</b> brain organization, protection and blood supply, cerebrospinal fluid circulation, brain stem, the   | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> |   |
|    | Tues. 3/5/2022       |   |                       |                                   |   |
|    | Thurs. 5/5/2022      |   | Online (Asynchronous) |                                   |   |



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|----|------------------|--|-----------------------|-----------------------------------|---|
|    |                  | diencephalon, the cerebrum, and cerebellum.  |                       |                                   |   |
| 10 | Sun. 8/5/2022    | <b>Cranial nerves:</b> classification of cranial nerves, origin and innervations of each cranial nerve.<br><b>The special senses:</b> olfaction, gestation, vision, hearing and equilibrium.   | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|    | Tues. 10/5/2022  |  | Online (Asynchronous) |                                   |   |
|    | Thurs. 12/5/2022 |  |                       |                                   |   |
| 11 | Sun. 15/5/2022   | <b>The cardiovascular system:</b> anatomy of the heart, heart valves and coronary circulation, the cardiac conduction .system<br>Blood vessels: structure of blood vessels, the aorta and its branches, main veins of the systemic circulation, types of capillaries.                                      | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|    | Tues. 17/5/2022  |  | Online (Asynchronous) |                                   |   |
|    | Thurs. 19/5/2022 |  |                       |                                   |   |
| 12 | Sun. 22/5/2022   | <b>The lymphatic system:</b> lymphatic capillaries, lymph trunks and ducts, primary and secondary lymphoid organs, structure of the lymph nodes, spleen and thymus gland.<br><b>The respiratory system:</b> anatomy of the nose, pharynx, trachea, bronchi, and lungs. Microscopic anatomy of the alveoli. | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|    | Tues. 24/5/2022  |  | Online (Asynchronous) |                                   |   |
|    | Thurs. 26/5/2022 |  |                       |                                   |   |
| 13 | Sun. 29/5/2022   | <b>The digestive system:</b> parts of the digestive system, layers of the GI tract, neural innervations of   | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|    | Tues. 31/5/2022  |  | Online (Asynchronous) |                                   |   |
|    | Thurs. 2/6/2022  |  |                       |                                   |   |



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|     |                   |   |                       |                                   |   |
|-----|-------------------|---|-----------------------|-----------------------------------|---|
|     |                   | the GI tract, gross and microscopic anatomy of each part in the GI accessory tract digestive organs: gross and microscopic anatomy of the pancreas, liver, and gallbladder. |                       |                                   |   |
| 14  | Sun. 5/6/2022     | <b>The urinary system:</b> anatomy and histology of the kidneys, microscopic anatomy of the nephron, anatomy and histology of ureters and urinary bladder.                  | In-class lecture      | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|     | Tues. 7/6/2022    |   | Online (Asynchronous) |                                   |   |
|     | Thurs. 9/6/2022   |   |                       |                                   |   |
| 15  | Sun. 12/6/2022    | <b>The endocrine system:</b> hypothalamus and pituitary gland, thyroid glands, parathyroid glands, adrenal glands, pineal and thymus glands.                                | Assignment            | <b>A3, B1, B2, B3, C1&amp; D1</b> | - |
|     | Tues. 14/6/2022   |   | Online (Asynchronous) |                                   |   |
|     | Thurs. 16/6/2022  |   |                       |                                   |   |
| 16. | <b>Final Exam</b> |   |                       |                                   |   |

**Grading Plan and Assessment Tools**

| Assessment Tools      | Weights | Due date |
|-----------------------|---------|----------|
| Mid-term              | 30%     | -        |
| Assignments           | -       | -        |
| Quizzes               | 20%     | -        |
| Inter active lectures | -       | -        |
| Group Work            | -       | -        |
| Presentation          | -       | -        |
| Reports               | -       | -        |
| Project               | 10%     | -        |
| Case-Study            | -       | -        |
| Final Exam            | 40%     | -        |



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## Supplementary Reading

### **Textbook:**

1. Principles of Human Anatomy:  
Gerard J. Tortora. 14 th ed.2017. John Wiley and Sons Inc.

### **References:**

- 1- Human anatomy and physiology: Marieb E.N. and Hoehn K. N.: Benjamin Cummings, 8th Edition. 2010.
- 2- Anatomy & Physiology: The Unity of Form and Function: Saladin K.: McGraw-Hill; 6 edition 2011.



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|                              |                   |                  |
|------------------------------|-------------------|------------------|
| Subject Coordinator          | Hana' Al Mughrabi | Signature: ----- |
| Head of Curriculum Committee | Husam Miqdad      | Signature: ----- |
| Department Head              | Husam Miqdad      | Signature: ----- |
| Faculty Dean                 | Hadeel Alsaed     | Signature: ----- |

**Copy to:**

- Department Head.
- Head of Curriculum Committee.
- Course File.

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