



**University of Benghazi**  
**Faculty of Medicine**



**Anatomy and Embryology Course (1101)**

**Overview**

The Anatomy and Embryology course is one of the basic requirements of the human medical program, it is taught in the first year. The number of study hours in the first year is 179 hours.

The objective of the course is to let the undergraduate medical students learn human Anatomy and with successive passing the first-year study, second year program depends on the basics and understanding of first year module, so by the end of the course the student should be able to:

1. Acquire comprehensive knowledge, and skills on general anatomy, general embryology, anatomy and development of upper limbs as applied to systemic surface and radiological anatomy.
2. Acquire comprehensive knowledge, and skills anatomy and development of lower limbs as applied to systemic surface and radiological anatomy.
3. Acquire comprehensive knowledge, and skills on anatomy and development of thorax as applied to systemic surface and radiological anatomy.
4. Acquire self-directed, lifelong learning skills, and team dynamics.

**Learning outcomes**

**Knowledge and understanding**

1. Discuss general anatomy, general embryology and basic structure and function of bones, muscles, nerves and vessels of the upper limbs.
2. Describe the basic structure and function of bones, muscles, nerves and vessels of lower limbs.
3. Discuss the structure and function of bones, muscles, nerves and vessels of the thorax along with anatomy of cardiovascular and respiratory systems.
4. Identify the concepts of self-directed, lifelong learning skills, and team dynamics.

## **Intellectual skills**

1. Determine the anatomical site of different bones origin and insertion of muscles and the course of nerves and vessels of upper limb.
2. Distinguish between the origin and insertion of different muscles anatomical landmarks of lower limb bones, and the course of its nerves and vessels.
3. Determine the anatomical landmarks of different bones, and organs of thorax along with the course of their nerves and vessels.
4. Analyze their roles and responsibilities inside their teams.

## **Practical and professional skills**

1. Determine the position and course of internal structures of upper limb in cadaver and normal anatomical structures on radiographs.
2. Recognize the different internal structures of lower limb in cadaver and normal anatomical structures on radiographs.
3. Identify the different internal structures of thoracic cavity in cadaver and normal anatomical structures on radiographs.
4. Conduct self and lifelong learning strategies throughout the course.

## **General and learning methods**

1. Communicate effectively with their colleagues and teachers.
2. Manage time appropriately.
3. Demonstrate ethical consideration in dealing with cadavers.

## **Teaching and learning methods**

1. Interactive lectures.
2. practical sessions.
3. Blended learning .
4. Team based learning (TBL)

## **Student Assessment Methods:**

1. MCQs and Written short notes essay.
2. TBL.

3. OSPE and slide examination to assess laboratory skills.
4. Structured viva .

## **References**

1. Richard L Drake, A.Wayne Vogl, Adam W M Mitchell. Gray's anatomy for Students. 4<sup>th</sup> edition 2020 Elsevier.
2. Lawrence E. Wineski. Snell's Clinical Anatomy By Regions. 10<sup>th</sup> edition. 2019 Wolters Kluwer.
3. Sadler T. W. Langman's Medical Embryology. 14th Edition. 2019 Wolters Kluwer.