

Anatomy and Physiology Lecture Notes

Unit 7 – Circulatory System - The Heart

Approximately the size of a person's fist, the hollow, cone-shaped heart weighs less than a pound. The pointed **apex** is pointed toward the left hip and rests on the diaphragm, approximately at the level of the fifth intercostal space. Its broader posterosuperior aspect, the **base**, from which the great vessels of the body emerge, points toward the right shoulder and lies beneath the second rib.



The human heart essentially is two separate hearts enclosed in a membrane

called the **pericardium**. The pericardium surrounds the heart and secretes a fluid that reduces friction as the heart beats. Fibrous tissues in the pericardium protect the heart and anchor it to surrounding structures, such as the diaphragm and sternum.

The heart walls are composed of three layers:

- The **epicardium**, or *visceral pericardium*, is actually part of the pericardium.
- The **myocardium** consists of thick bundles of cardiac muscle, the layer that actually contracts.
- The **endocardium** is a thin, glistening sheet of endothelium that lines the heart chambers and helps blood flow smoothly through the heart. It is continuous with the linings of the blood vessels leaving and entering the heart.

The upper chambers of the heart, **right and left atria (atrium)**, receive blood returning to the heart. As a rule, they are not important in the pumping activity of the heart. Blood flows into the atria under low pressure from the veins and then continues on to fill the ventricles.

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A Gutmann



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Repatriation General Hospital (Concord, N.S.W.), 1949 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1978 Survey of Anatomy and Physiology David Brannigan, 2009-07-28 Anatomy and Physiology, 1979

Human Anatomy and Physiology Lecture Notes Susan Verscheure, 2004 *USMLE Step 1 Anatomy and Physiology Lecture Notes* Kaplan, Inc, 2001 *Respiratory Medicine* Stephen J. Bourke, Graham P. Burns, 2011-11-23

Providing a detailed overview of respiratory medicine in one short volume *Respiratory Medicine Lecture Notes* covers everything from the basics of anatomy and physiology through to information on a full range of respiratory diseases Whether approaching the topic for the first time starting a rotation or looking for a quick reference summary medical students specialist nurses technicians and doctors in training will find this book an invaluable source of theoretical and clinical information Anatomical and Physiological Note Book John Keats, 1934 **Media and the Mind** Matthew Daniel Eddy, 2023 A beautifully illustrated argument that reveals notebooks as extraordinary paper machines that transformed knowledge on the page and in the mind We often think of reason as a fixed entity as a definitive body of facts that do not change over time But during the Enlightenment reason also was seen as a process as a set of skills enacted on a daily basis How why and where were these skills learned Concentrating on Scottish students living during the long eighteenth century this book argues that notebooks were paper machines and that notekeeping was a capability building exercise that enabled young notekeepers to mobilize everyday handwritten and printed forms of material and visual media in a way that empowered them to judge and enact the enlightened principles they encountered in the classroom Covering a rich selection of material ranging from simple scribbles to intricate watercolor diagrams the book reinterprets John Locke s comparison of the mind to a blank piece of paper the tabula rasa Although one of the most recognizable metaphors of the British Enlightenment scholars seldom consider why it was so successful for those who used it Each chapter uses one core notekeeping skill to reveal the fascinating world of material culture that enabled students in the arts sciences and humanities to transform the tabula rasa metaphor into a dynamic cognitive model Starting in the home moving to schools and ending with universities the book reconstructs the relationship between media and the mind from the bottom up It reveals that the cognitive skills required to make and use notebooks were not simply aids to reason rather they were part of reason itself

Human Anatomy and Physiology 1 (Lecture Notes), 2025-03-11 *Biology Takes Form* Lynn K. Nyhart, 1995-10-15
Morphology the study of form is often regarded as a failed science that made only limited contributions to our understanding

of the living world Challenging this view Lynn Nyhart argues that morphology was integral to the life sciences of the nineteenth century *Biology Takes Form* traces the development of morphological research in German universities and illuminates significant institutional and intellectual changes in nineteenth century German biology Although there were neither professors of morphology nor a morphologists society morphologists achieved influence by colonizing niches in a variety of disciplines Scientists in anatomy zoology natural history and physiology considered their work morphological and the term encompassed research that today might be classified as embryology systematics functional morphology comparative physiology ecology behavior evolutionary theory or histology Nyhart draws on research notes correspondence and other archival material to examine how these scientists responded to new ideas and to the work of colleagues She examines the intertwined histories of morphology and the broader biological enterprise demonstrating that the study of form was central to investigations of such issues as the relationships between an animal s structure and function between an organism and its environment and between living species and their ancestors **British Medical Journal** ,1871 **Innovative**

Techniques for Large-group Instruction National Science Teachers Association,2002 Size does matter When you re faced with a class of 50 150 or even 250 college students it s tough to head off boredom much less promote higher order thinking and inquiry skills But it s not impossible thanks to the professor tested techniques in this collection of 14 articles from the *Journal of College Science Teaching* The book starts by examining what research shows about the effectiveness of popular teaching styles Surprise Lectures don t stimulate active learning From there the authors offer proven alternatives that range from small scale innovations to completely revamped teaching methods Suggested strategies include using quizzes in place of midterms and finals student forums interactive lectures collaborative groups group facilitators and e mail and computer technology *Anatomy and Physiology 2 (Lecture Notes)* ,2025-03-11 **Annual Register of the United States Naval Academy** United States Naval Academy,1908

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