



Course Syllabus

Anatomy and Physiology I

BIOL 2401

<u>Semester</u>	Spring 2015
<u>(CRN)</u>	41813
<u>Instructor contact</u>	AUGUSTE NIOUPIN 8001 FULTON, Houston, TX 77022
<u>Phone Number:</u>	(713) 718-2443
<u>Email Address:</u>	auguste.nioupin@hccs.edu
<u>Office Location and Hours</u>	Northline Campus, Room 321 Fridays; 10:00 a.m. to 2:00 p.m.
<u>Course Location/Times</u>	Mondays: 11:00 a.m. to 2:00 p.m.; Room 309 (Lecture/ Lab) Wednesdays: 11:00 a.m. to 2:00 p.m.; Room 217 (Lecture)
<u>Course Semester Credit Hours (SCH)</u>	Credit Hours 4.00 Lecture Hours 3.00 (3 college credits) Laboratory Hours 3.00 (1 college credit)
<u>Total Course Contact Hours</u>	96.00
<u>Course Length</u>	16 weeks
<u>Type of Instruction</u>	In person, on campus.
<u>Course Description:</u>	Study of the structure and function of human cells, tissues, and organ systems including integumentary skeletal, musculature, and nervous systems. Core Curriculum course.
<u>Course Prerequisite(s)</u>	<ul style="list-style-type: none">• College-level reading (or take GUST 0342) and• College-level writing (or take ENGL 0310/0349)• BIOL 1406 IS STRONGLY RECOMMENDED

Instructional Materials

TEXTBOOK:

- TITLE: *Fundamentals of Anatomy & Physiology, 10th edition (2015)*
- AUTHORS: *Frederic H. Martini, Judi L. Nath, Edwin F. Bartholomew*
- PUBLISHERS: *Pearson Publishers*
- Student [companion site](#)

LAB MANUAL:

- TITLE: *Anatomy and Physiology I Laboratory Manual*
- AUTHORS: *Keating and Wiersema*
- Biology Lab [Study Pages](#)

Course Student Learning Outcomes (SLO):

1. Students will be able to understand and apply the principles of homeostasis and the importance of feedback loops.
2. Students will be able to evaluate information and make conclusions based on their knowledge of membrane transport.
3. Students will be able to apply their knowledge of muscle structure to explain how muscles function.
4. Students will be able to apply their knowledge of the structure of the skeletal system to its functions.
5. Students will be able to understand and apply their knowledge of changes in polarity on membrane potential.
6. Students will be able to apply and demonstrate their knowledge concerning reflex arcs

Learning Objectives

Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology.
Recognize the anatomical structures and explain the physiological functions of body systems and discuss the interactions of the systems.
Define and explain the principle of homeostasis and the use of feedback loops to control physiological systems in the human body.
Apply microscope to identify histological features of four basic tissue types in human body and establish the cell as the basic unit of structure and function in all body systems.
Demonstrate laboratory procedures used to examine anatomical structures and evaluate physiological functions of each organ system; be able to interpret graphs of anatomical and physiological data.

Instructional Methods

This course focuses on your textbook readings and instructor Power Point lectures. Course contents are heavily based on the topics covered in the required textbook, although certain details may be added from various easily accessible sources. It is the responsibility of the student to read the chapters assigned by the instructor with emphasis on the topics and concepts covered in class. Any of these topics can be included in lecture exams, although the main focus of these tests will be derived from the reviews.

Laboratory sessions will include exercises from the required laboratory manual. In most cases, "lab day" will be de facto lecture/lab exercise. Lab reports are due at the next **lecture** session immediately following "lab day". Lab reports must be turned in to your instructor no later than the **end** of that lecture session. Lab reports turned within 24 hours after the deadline will be assessed a 20% penalty. Anything turned in more than 24 hours after the deadline will earn you a **0 (zero!)**.

Student Assignments

Students are required to read assigned chapters. Announced or unannounced quizzes during lecture or lab may be conducted throughout the semester.

**Student
Assessment(s)**

EXAMINATIONS AND GRADES:

Students will be assessed via lecture and laboratory examinations, final lecture and lab examinations.

There will be a total of five examinations in all. These include 3 lecture exams, 1 laboratory exam and a final examination.

You must provide ASAP a USB Flash drive with at least 1 gigabyte (1 GB) of available memory to your instructor to have a copy of lecture outlines, the reviews, the animations, and other useful documents.

The laboratory exam will be based on tissue slides and body parts models.

The final will include material from review 4, and a comprehensive element.

HCC Grading Scale

A = 100- 90	4 points per semester hour
B = 89 - 80:	3 points per semester hour
C = 79 - 70:	2 points per semester hour
D = 69 - 60:	1 point per semester hour
59 and below = F	0 points per semester hour
IP (In Progress)	0 points per semester hour
W(Withdrawn)	0 points per semester hour
I (Incomplete)	0 points per semester hour
AUD (Audit)	0 points per semester hour

IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses. To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.

For Health Science programs, see the Program/Discipline Requirements section for specific grading requirements.

**Instructor Grading
Criteria**

THE FINAL AVERAGE FOR THE COURSE IS CALCULATED AS FOLLOWS:

3 LECTURE EXAMS:	36% (12% each)
1 LABORATORY EXAM:	20%
ATTENDANCE:	5%
LAB REPORTS AVERAGE:	5%
FINAL EXAM:	34% (10% District-Wide Final)

**Instructor's
Requirements**

Basic requirements

Students should be on time for class and be prepared with required materials including textbook and lab manual. Full class attendance is required including lecture and lab portions. Full attention during lecture and lab is required.

NOTE:

This course requires basic level of computer skills such as **HCC Webmail, MS OFFICE 2007** or above (including **MS Word, MS PowerPoint, MS Excel**), **Windows XP** or above (including **Paint, Calculator, Notepad, WordPad, XPS viewer**, etc.), Current version of various **Web Browsers (Explorer, Firefox, Safari, Chrome, or Opera)**

ATTENDANCE POLICY

The Houston Community College System permits up to 4 absences during a regular semester. Beyond that, the student may be subject to administrative withdrawal at the discretion of the Instructor.

In this course, attendance will constitute 5% of the final grade

0 absences = 100%

1 absence = 90%

2 absences = 80%

3 absences = 70%

4 absences = 60%

More than 4 absences = 0

Note: Classes start on time, at the designated, officially scheduled start time. You have 15 minutes to come in. Past 15 minutes after the officially scheduled start of class the doors shall be “locked” regardless of your circumstances. Your next opportunity to come in would be at break time which should occur 1 hour and a half after the officially scheduled start of class. Break time lasts 15 minutes, after which doors will be “locked” again. Missing half the class causes you to be half absent (whether you came in at break time, or you left before class was dismissed). Of course half absences **do** add up to full absences. Be aware of that.

Phones/electronic devices

Absolutely no phone or other personal electronic devices are to be used during class (lecture and lab). This includes making or taking a call, reviewing messages, texting, playing games, checking email, surfing the web, anything that involves a phone or other personal electronic device. If your work or family situation requires that you be available via phone, your phone can be on vibrate mode and you can take the call during our regular scheduled breaks or you can exit the class to review the call. Notify your friends, family, employers, and anyone else who regularly contacts you that you will be in class and that you should be contacted only when necessary. The taking of calls during class is not only disruptive but it is also discourteous to classmates and the instructor.

Use of recording devices, including camera phones and tape recorders, is prohibited in classrooms, laboratories, faculty offices, and other locations where instruction, tutoring, or testing occurs. Students with disabilities who need to use a recording device as a reasonable accommodation should contact the Office for Students with Disabilities for information regarding reasonable accommodations.

HCC ADA Policy Statement:

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office of their respective college at the beginning of each semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office. For questions, contact Dr. Lee Rinker at 713-718-8069 or the Disability Counselor at your college.

Northeast Lead ADA Counselor – **Dr. Lee Rinker – 713-718-8069**

ADA website: <http://www.hccs.edu/hccs/future-students/disability-services>

Student Services Policies:

<http://hccs.edu/student-rights>

**EGLS3 –
Evaluation for
Greater Learning
Student Survey
System**

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time near the end of the term, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and department chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.

EGLS3 availability will be published later during the semester.

**ACADEMIC
HONESTY**

Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Disciplinary proceedings may be initiated by the College System against a student accused of scholastic dishonesty. Penalties can include a grade of "0" or "F" on the particular assignment, failure in the course, academic probation, or even dismissal from the College. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism and collusion.

**COURSE
REPEATERS:**

"Students who repeat any college-level course for a third time or more at Houston Community College (HCC) will be assessed an extra fee of \$50 per credit hour. Please ask your instructor / counselor about opportunities for tutoring or other assistance prior to considering course withdrawal or if you are not receiving passing grades."

Faculty will **no** longer be able to "withdraw" students on their final semester roll sheets. The use of the **withdrawal form** must be used by students/faculty to withdraw students from coursework with appropriate boxes) checked. **If a student decides to withdraw from a class upon careful review of other options, the student can withdraw online prior to the deadline through their HCC Student Center, on PeopleSoft. Students should check HCC's Academic Calendar by Term for withdrawal dates and deadlines.**

The State of Texas has begun to impose penalties on students who drop courses excessively. For example, if you repeat the same course more than twice, you have to pay extra tuition. In 2007, the Texas Legislature passed a law limiting students to no more than **six** total course withdrawals throughout their academic career in obtaining a baccalaureate degree. There may be future penalties imposed.

To help students avoid having to drop/withdraw from any class, HCC has instituted an Early Alert process by which your instructor will "alert" you and HCC Student Services of the chance you might fail a class because of excessive absences and/or poor academic performance. You should visit with your Instructor, an HCC counselor, or HCC Online Student Services to learn about what, if any, HCC interventions might be offered to assist you – tutoring, child care, financial aid, job placement, etc. – to stay in class and improve your academic performance.

MAKE UP POLICY

A student **may** be allowed to make up an exam at the sole discretion of the instructor. Each situation will be evaluated on a case by case basis.

CALENDAR:

IMPORTANT DATES FOR SPRING 2015

Classes begin:	January 20 th .
1st lecture exam:	February, 18th (Review 1 on Feb 11 th , Questions are due Feb. 10 th , before 7:30p)
President's Day:	February 16 th .
Spring Break:	March 16 th through 22 nd .
Last Day to Drop (W):	March 24th. (4:30p)
2nd lecture exam:	March 25th (Review 2 on Mar. 11 th , Questions are due Mar. 10 th , before 7:30p)
Spring Holiday:	April 3 rd through April 5 th .
3rd lecture exam:	April 20th (Review 3 on Apr. 15 th , Questions are due Apr. 14 th , before 7:30p)
Lab Exam Review:	May 2nd. (9:00a to 11:00a, Room: TBA)
Laboratory Exam:	May 4th.
Final Examinations Week:	May 11th (See Official Schedule) (Review 4 on May 6 th ; Questions are due May 5 th , before 7:30p)
Grades available:	May 22 nd .

See the Instructor for exact time and date. Time and Dates may be changed on short notice.

**CHAPTERS
TO BE COVERED**

CH. 1	An Introduction to Anatomy and Physiology
CH. 2	The Chemical Level of Organization
CH. 3	The Cellular Level of Organization
CH. 4	The Tissue Level of Organization
CH. 5	The Integumentary System
CH. 6	Osseous Tissue and Bone Structure
CH. 7	The Axial Skeleton
CH. 8	The Appendicular Skeleton
CH. 9	Joints
CH. 10	Muscle Tissue
CH. 11	The Muscular System
CH. 12	Neural Tissue
CH. 13	The Spinal Cord, Spinal Nerves, and Spinal Reflexes
CH. 14	The Brain and Cranial Nerves
CH. 15	Sensory Pathways and the Somatic Nervous System
CH. 16	The Autonomic Nervous System and Higher- Order Functions
CH. 17	The Special Senses

- Lecture **Exam #1** *should* cover chapters 1, 2, 3, 4,
- Lecture **Exam #2** *should* cover chapters 5, 6, 7, 8
- Lecture **Exam #3** *should* cover chapters 9, 10, 11
- **Final Exam** *should* cover chapters 12, 13, 14, 17

This is a tentative schedule. See your Instructor for exact exam content. Content may be adjusted according to time constraints and/or unforeseen events

**LABORATORY
EXERCISES
TO BE COVERED**

Most lab exercises should be covered.

**LABORATORY
SAFETY RULES:**

Read the rules in your lab book, and sign the form provided by your Instructor. Each student is responsible for cleaning up after labs; this includes glassware, utensils, specimens/models and other material used during lab time.

ONLINE TUTORING

All BIOL students are encouraged to use HCC's online tutoring system for help with any BIOL class. Questions submitted to the ASK queue will be answered within 24 hours – and usually much before that. Tutors are on duty 7 days a week, 365 days a year. Online tutors will not do homework for you, but they will guide you in the right direction. To maximize the effectiveness of the system, be specific when you ask questions, and let the tutor know what class you are taking. Registering for online tutoring is easy. Go to www.hccs.askonline.net. Select a user name and password that you will remember. Use any e-mail address, and add your student ID number in the COMMENT box. It will probably take five minutes to set up your askonline account. After that, you can submit questions in seconds. Tutor responses are not e-mailed to you. To see the answers, log back in to the system and click the bright yellow NEW button.

Online tutoring is also available for chemistry, physics, math, English, and papers in all disciplines.

PLEASE NOTE!

- You need to purchase your textbook and lab manual as soon as possible.
- If you have any problem whatsoever with the class, speak to the instructor first. Together we can handle it.
- You may contact me any time via the email.
- Check my office hours for personal conferences.
- Check on your grades often and discuss your concerns with me. Don't wait till the end of the semester!
- The attendance roll rules: if you are not on the roll, you cannot attend class.
- Students are expected to conduct themselves as adults. Be courteous to your classmates and the instructor. Disruptive behavior or any behavior that interferes with any educational activity being performed by the instructor will not be allowed. No cursing is allowed in this class! You may have to walk... ☺ Additionally, no student may interfere with his/her fellow students' right to pursue their academic goals to the fullest in an atmosphere appropriate to a community of scholars. Disruptive behavior may result in removal from the class.
- Turn in reports and assignments when they are due. Late work will be penalized.
- **SHOW UP! SHOW UP!! SHOW UP!!!**
- **STUDY! STUDY!! STUDY!!!**

Fundamentals of Anatomy & Physiology helps you succeed in the challenging A&P course with an easy-to-understand narrative, precise visuals, and steadfast accuracy. Every chapter of the Tenth Edition includes one- and two-page Spotlight Figures that seamlessly integrate text and visuals to guide you through complex topics and processes. Fundamentals of anatomy and physiology Includes bibliographical references and index. ISBN-13: 978-0-321-90907-7 ISBN-10: 0-321-90907-0 I. Nath, Judi Lindsley, author. II. Fundamentals of Anatomy and Physiology for Nursing and Healthcare Students is a succinct Essentials of Anatomy and Physiology. 622 Pages 2007 24.25 MB 190,350 Downloads. A fifth edition of Essentials of Anatomy and Physiology is very gratifying, and Human anatomy Principles of Anatomy and Physiology [With A Brief Atlas of the Skeleton, Surface Anatomy,] 1,281 Pages 2008 78.84 MB 29,417 Downloads New! The new edition of Principles of Anatomy and Physiology maintains the superb balance between ... 1.1 Overview of Anatomy and Physiology . Chapter 5: The Integumentary System . 5.4 Diseases Anatomy & Physiology. 1,426 Pages 2016 38.39 MB 60,727 Downloads. Anatomy & Physiology . 1.1 Overview of Anatomy and Physiology . Anatomy and Physiology is a dynamic textbook for the two-semester human anatomy and physiology course for life science and allied health majors. The book is organized by body system and covers standard scope and sequence requirements. Its lucid text, strategically constructed art, career features, and links to external learning tools address the critical teaching and learning challenges in the course. The web-based version of Anatomy and Physiology also features links to surgical videos, histology, and interactive diagrams. We know that schools across the United States and throughout the world This new edition of Fundamentals of Anatomy and Physiology for Nursing and Healthcare Students will help you. It is a requirement of several programmes of study that lead to registration with a professional body that you demonstrate competence in a number of spheres, and this will include anatomy and physiology " for example, see The Standards for Pre-Registration Nursing Education (Nursing and Midwifery Council, 2010). Employing a fundamental approach with a sound anatomical and physiological understanding will provide healthcare students with an essential basis on which to provide care. Contributed by experienced lecturers, this indispensable text on anatomy and physiology covers the syllabus presented by the Malaysian Nursing Board and other allied health professionals or for biomedical science programmes in a thorough yet concise manner. The accompanying Practical Workbook can also be used for practical learning.