Brookhaven College
Division of Science and Mathematics
Course Syllabus for
Biology 2401, section 21250
Fall 2019
Anatomy and Physiology I

Instructor of Record: Dr. Sokhansanj

Course Description
Biology 2401, Anatomy and Physiology I, is the first semester of a two-semester sequence in Human Anatomy and Physiology. This course presents the gross and microscopic anatomy, embryology, and physiology of the human organism in a systematic and integrated approach. Extensive use is made of Somso™ models, real and synthetic skeletons. This course assumes that you have completed some college science and mathematics courses and are ready to take on a more advanced and rigorous course. The prerequisite is Majors Biology, BIOL 1406, or its equivalent; however, if you have had another college level science course or have been working in a biomedical environment, this may suffice. If you do not have the stated prerequisite, then the instructor will make the final decision concerning your eligibility for the course.

Lecture Professor & Instructor of Record:
Dr. Sokhansanj. Email address is asokhansanj@dcccd.edu

Laboratory Professor:
Dr. Sokhansanj

Office hours: TBA
The division secretary in K-224 is also available to take messages at 972-860-4750, Monday through Thursday from 8:30am to 8:30pm or on Friday from 8:30am to 12:00pm. Calls will be returned on the same day they are received. Appointments may be made during office hours as posted at the beginning of the semester.

Texts and Manuals (required)

1. Human Anatomy and Physiology, 11th ed. w/ Modified Mastering, 2019, Marieb and Hoehn (Pearson).
4. Small dissection kit, a lab coat, goggles, and disposable gloves (available in the campus bookstore).
Activities:
1. We will meet for lecture/discussion one time per week to cover the basic concepts of the course. In addition, the objectives for that week will be reviewed. Lecture examinations will be given in class.
2. We will also meet for laboratory once each week and be tested each week by on line laboratory quizzes. Laboratory Exams are given four times during the semester. Laboratory practical exams, are graded by your laboratory instructor and the grades are given to your lecture professor.
3. All exams are written by the department and rewritten each semester.

Grading: The final course grade is determined by the lecture section professor, on the basis of points accumulated during the semester. Four types of evaluation instruments are given: lecture examinations, laboratory examinations, lab quizzes, and homework. Each lecture examination will be comprised of multiple choice questions and essay questions and is worth 100 points. The laboratory examinations are comprised of fill-in-the-blank questions - each exam is worth 100 points. A letter grade scale is applied to the point system based upon a percentage of the total possible points to be accumulated during the semester.

\[
\begin{align*}
90 - 100\% & = A; \\
80 - 89\% & = B; \\
70 - 79\% & = C; \\
60 - 69\% & = D
\end{align*}
\]

Five lecture exams @ 100 pts each  \__________-\__________500 pts.
Four laboratory exams @ 100 pts each\__________-\__________400
Ten Lab Quizzes @ 10 pts each \__________\__________100
\textit{Mastering A&P} homework\__________\__________100

\[\text{\textbf{Total \______________}-\__________1100 pts.}\]

Appeals concerning grades. All appeals shall be initiated with the section instructor. If further appeal is desired, the next level is the Dean of the Science/Mathematics division followed by the Vice President of Instruction.

Make-up Examinations: It is up to the discretion of the section instructor to permit a student to make up any type of course work missed during the semester. In most cases, make-up exams will not be given. All situations of this kind are handled and resolved individually between student and instructor.

Additional Information:
1. Please notify the instructor if you have been absent.
2. The instructor also reserves the right to drop students from the roll for poor performance, attendance, cheating, etc.
3. Please read the Brookhaven Code of Student Conduct in the school catalog.
4. The department reserves the right to change the syllabus at any time.
**Biology Resource Lab** (room: X-2030):
For many years we have run a Review/Tutoring laboratory in Biology for review of laboratory slides, models and dissections. This lab is staffed by a person who helps enrolled biology students with their laboratory review or by a qualified Biology tutor. This is a place where you may review the material you have studied during your regular laboratory session, with the exception of dissected specimens, which are not permitted in the BRC. The BRC does not take the place of the regular lab section meeting. Please do not bring your family members, especially children, to lab. The tutoring services will be available on a scheduled basis.

**Attendance:**
Students are expected to attend, on time, all classes in which they are enrolled. *Attendance will be taken during each class period (lecture and lab) and excessive absences will be treated with an administrative drop from the course.* You have the responsibility to attend class and to consult with the instructor when an absence occurs. Students who miss two lecture sessions or three laboratory sessions without an adequately documented explanation may be dropped from the course.

**Promptness.** Habitual tardiness to class is an affront to the instructor and your classmates who are in class on time. If there is a reason that you cannot attend class at the scheduled time, (e.g. work, health, family), you will need to rearrange your schedule to eliminate the conflicts or drop the course.

**Holidays.** Students desiring to observe a religious holy day which will result in a class absence, must notify their instructor in writing for each class no later than the 15th calendar day after the first class day of the semester in which the absence will occur. The student is required to complete any assignments or take any examinations which may have been missed within a reasonable time.

**Lateral transfers.** No lateral transfer will be granted without written documentation of need. Students who wish to complete a lateral transfer to another biology course must consult the instructor in the class in which they are enrolled. There will be no transfers after the second week of classes.

**Withdrawal.** If necessary, it is the responsibility of the student to withdraw from the course. This can be accomplished in the registrar’s office before the withdrawal date.

**Academic Dishonesty:**
Academic dishonesty is the unauthorized giving or receiving of assistance on any grade assignment. All students are encouraged to examine the *Brookhaven College Catalog* section on Academic Dishonesty available in the registrar’s office, the Admissions office or in the LRC. Cheating in any form will be grounds for a performance grade of F, removal from the course, a block placed on your transcripts, a record of the incident placed in your permanent file and Academic/Disciplinary suspension. In addition, your professor may seek further penalties. Academic dishonesty is interpreted as theft.

**Drop 6 Rule**
6 Drop Rule. **Stop Before You Drop.** For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop during their college career. You may drop no more than six (6) courses during your entire undergraduate career unless the drop qualifies as an exception. You campus counseling/advising center will give you
more information on the allowable exceptions. Remember that once you have accumulated six (6) non-
exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when
dropping courses in any Texas public institution of higher learning, including all seven of the Dallas
County Community Colleges. For more information, you may access: www1.dcccd.edu/coursedrops.

Student Learning Outcomes:
At the completion of the course the student will be able to:
1. Explain the basic physiological principles of the Cell, the Skin, the Skeletal system, the Muscular system, and
the Nervous system.
2. Recognize and identify the basic gross and microscopic anatomical structures associated with the Human
Tissue, Skin, Skeletal system, Muscular system and Nervous system.
3. Explain the interrelatedness of the major organ systems and how each organ system functions separately and
as part of the integrated whole organism to maintain homeostasis.

Fall 2019 - BIOL 2401- Lecture/Lab Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Topic/ Ch.</th>
<th>Lab Topic/Ch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/31</td>
<td>Chapter (1)</td>
<td>Microscope and Cells (3,4)</td>
</tr>
<tr>
<td>9/7</td>
<td>Chapter (4)</td>
<td>Tissues (6)</td>
</tr>
<tr>
<td>9/14</td>
<td>Integumentary (5)</td>
<td>Tissues (6); Integument (7)</td>
</tr>
<tr>
<td>9/21</td>
<td>*Lecture Exam 1</td>
<td>Lab Exam 1</td>
</tr>
<tr>
<td></td>
<td>Physiology of bone (6)</td>
<td></td>
</tr>
<tr>
<td>9/28</td>
<td>Physiology of Bone (6)</td>
<td>Osseous Tissue and Skeleton (8); Axial Skeleton (9)</td>
</tr>
<tr>
<td>10/5</td>
<td>Articulations (8)</td>
<td>Axial &amp; Appendicular Skeleton (9, 10)</td>
</tr>
<tr>
<td>10/12</td>
<td>Lecture Exam 2</td>
<td>Appendicular Skeleton &amp; Articulations (10,11)</td>
</tr>
<tr>
<td></td>
<td>Muscle Physiology (9)</td>
<td></td>
</tr>
<tr>
<td>10/19</td>
<td>Muscle Physiology (9)</td>
<td>Lab Exam 2</td>
</tr>
<tr>
<td>10/26</td>
<td>kinesiology (10)</td>
<td>Muscle Tissue and Organization (12); Muscles of Face &amp; Torso (13); Arm &amp; Leg (13)</td>
</tr>
<tr>
<td>11/2</td>
<td>Lecture Exam 3</td>
<td>Muscle continues</td>
</tr>
<tr>
<td></td>
<td>Neurophysiology (11)</td>
<td></td>
</tr>
<tr>
<td>11/9</td>
<td>Central Nervous system (12)</td>
<td>Lab Exam 3</td>
</tr>
<tr>
<td>11/16</td>
<td>Lecture Exam 4</td>
<td>Neural Tissue (15); Brain &amp; Cranial Nerves, Brain Dissection(17)</td>
</tr>
<tr>
<td>Date</td>
<td>Chapter(s)</td>
<td>Notes</td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>11/23</td>
<td>ch 1, 4 and 5</td>
<td>Spinal Cord &amp; Nerves (19); Autonomic Nervous System (20);</td>
</tr>
<tr>
<td></td>
<td>ch 6, 8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ch 9-10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ch 11-12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ch 13-15</td>
<td></td>
</tr>
<tr>
<td>11/30</td>
<td></td>
<td>Thanksgiving Holiday Special Senses (15)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Senses (22); Vision (23); Hearing (25); Smell &amp; Taste (26)</td>
</tr>
<tr>
<td>12/7</td>
<td>Lecture Exam 5 (not comprehensive)</td>
<td>Lab Exam 4</td>
</tr>
</tbody>
</table>

Exam 1: ch 1, 4 and 5
2: ch 6, 8
3: ch 9-10
4: ch 11-12
5: ch 13-15

** Thanksgiving Break - Nov. 28-29**