Instructor: Erin Fore                                          Office: 207A; Office hour posted
Email: efore@jscc.edu                                      Phone: 731-424-3520 ext.50535

Course Overview:
An introductory course primarily designed for students in nursing and allied health programs; but, also applicable to
students in biology, nutrition and physical education programs. Topics include scientific methodology, limits of scientific
inquiry, fundamental biological chemistry, cellular structure and function, tissues and the integumentary, skeletal,
muscular and nervous systems.

You need access to Mastering AP online.
JSCC BIOL 2010 Human A and P I Lab Manuel (must be purchased at JSCC bookstore)

Student Learning Objectives
A. Communicate orally and in written form with a vocabulary conducive to the natural and physical sciences as related to
the specific course objectives.
B. Perform appropriate mathematical operations as they relate to the natural and physical sciences.
C. Demonstrate an understanding of the principles and concept of the sciences specifically related to the program.
D. Demonstrate knowledge of the scientific method, its strengths, limits, and interrelationship with society.
E. Gather, analyze, organize and interpret data in mathematical, written and/or verbal form.

Course objectives:
Upon successful completion of this course, students should be able to:

A. Demonstrate use of the scientific method and the limitations of science.
B. Examine the study of anatomy and physiology and how it relates to scientific processes.
C. Develop a vocabulary relevant to the structure and function of the human body.
D. Understand the organizational levels of life.
E. Discuss the characteristics of living things, emphasizing homeostasis and feedback mechanisms.
F. Develop a basic understanding of atomic structure and chemical bonding.
G. Understand the structure and functions of carbohydrates, lipids, proteins, and nucleotides.
H. Understand the characteristics and functions of enzymes.
I. Describe the components of cells and their structure and function, including membrane structure and
   transport.
J. Understand the central dogma of biology and the connection between syntheses of DNA, RNA, and
   proteins.
K. Classify the four primary body tissues. Identify a variety of tissues microscopically.
L. Comprehend the structure and functions of the integumentary system.
M. Comprehend the structure, formation, and functions of bone tissue.
N. Identify the bones of the skeletal system and significant features of each.
O. Demonstrate knowledge of the different types of articulations, their function, and locations in the body.
P. Comprehend the location and action of skeletal muscles.
Q. Understand characteristics, functions, mechanisms of action, and types of muscle tissues.
R. Understand membrane and action potentials.
S. Comprehend the sliding filament theory of muscle contraction.
T. Understand the properties of neurons and neuroglia and the events observed at a typical chemical synapse.
U. Identify the principle parts and functions of the brain, spinal cord, nerves, and neuronal pathways.
V. Understand the structural and functional differences of the somatic and autonomic nervous systems, and
   sensory structures.
Department Directives:

Grading: Course = 70% Lab = 30%.
Student must pass the laboratory component to pass the course.
No extra credit is to be offered throughout the course.

Course requirements
- Complete assigned text reading.
- Review lab assignments prior to the lab.
- Keep accurate notes in class as well as in lab.
- Attend and take part in all class activities; take all tests and quizzes as scheduled.
- Be in class on time and prepared to work.
- Do own work (refer to attached JSCC Academic Honesty Policy- see student handbook).

Course Outline
We will be covering the following topics and corresponding chapters in either lab or lecture.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter(s)</th>
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<tbody>
<tr>
<td>Intro to A and P</td>
<td>1</td>
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<tr>
<td>Chemistry Review</td>
<td>2</td>
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<tr>
<td>Exam 1</td>
<td>(100 points)</td>
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<tr>
<td>The Cell</td>
<td>3</td>
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<tr>
<td>Exam 2</td>
<td>(100 points)</td>
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<tr>
<td>Histology</td>
<td>4</td>
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<tr>
<td>Integumentary System</td>
<td>5</td>
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<tr>
<td>Exam 3</td>
<td>(100 points)</td>
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<tr>
<td>Bone and Bone tissue/ Articulations</td>
<td>6 &amp; 8</td>
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<tr>
<td>Muscle Tissue and Physiology</td>
<td>10</td>
</tr>
<tr>
<td>Exam 4</td>
<td>(100 points)</td>
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<tr>
<td>Nervous System</td>
<td>11-14</td>
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<tr>
<td>Exam 5/Final Exam</td>
<td>(150 points)</td>
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Policies:
A. Grading
Your grade will be based on both lecture (70%) and lab (30%). Your lecture grade will come from the following categories: (this is an estimate of the points for the semester)

4 major Exams 100 points each – 400 points
Weekly quizzes – 10 points each- 120 points
Online Homework assignments- ~30 points each
Attendance – 25 points
Comprehensive Final Exam – 150 points
Grading Scale: 100-90 A 89-80-B 79-70- C 69-60 D 59 -0 F

B. Description of major assignments
Major exams: There will be 4 major exams this semester. Exams will be given about every 2 chapters. Exams will be announced at least one week in advance and study guides will be posted on e-learn for all exams. There will be a comprehensive final exam at the end of the semester. The final exam will be on Tuesday April 30th at 8am.

Weekly quizzes: Each week you will be responsible for taking an online quiz through e-learn. These quizzes will help you test your knowledge and prepare for exams. Quizzes will be available at the end of class on Thursdays and must be completed by 11:59pm on that same Saturday. Students are not allowed to use textbooks to complete quizzes. These will be timed. I will drop the lowest quiz score at the end of the semester. If you are not in class you are still expected to complete the quiz.
Homework assignment: Homework assignments will be come from Mastering A&P and handouts. You can expect about 1 per chapter. Assignments will be about 30-35 points.

C. Attendance and Tardiness: I expect you to attend all labs and lectures. It is extremely hard to be successful in class if you are not in regular attendance. If you miss a class you are responsible for obtaining all information that was covered during your absence, including any homework assigned, which can be found on e-learn or Mastering A&P. Excessive absences and tardiness will not be tolerated. Students who miss or are late to class more than 4 times will have points deducted from their attendance grade.

D. Make-ups: I will allow each student one make-up exam. There are no make-up quizzes as these are online. If you know you are going to miss an exam please make arrangements with me beforehand to work out an alternate time. I drop the lowest quiz grade at the end of the semester. I do understand that sometimes there are extenuating circumstances, please contact me as soon as possible in these cases (phone or email) and we will work these out on an individual basis.

E. Online materials: I will post all lecture outlines, homework, and study guides on e-learn. You can find grade updates and announcements there as well. If class were to be cancelled it would be posted on e-learn and j-web. Check e-learn often. We will be using Mastering A &P for many homework assignments. This site has an abundance of resources for you for both lecture and lab. Take advantage of them even if they are not required for points. Each chapter I will post a study module that is intended for practice. These are not required but another useful study tool.

F. Students with Disabilities: Students with diagnosed disabilities will be provided reasonable and necessary academic accommodations if they are determined eligible by the college’s Disability Resource Center (DRC) staff. The instructor must receive a “Special Accommodations Agreement Form” signed by the DRC staff before granting disability related accommodations in this course. It is the student’s responsibility to initiate contact with the DRC and follow established procedures to be allowed accommodations by the instructor. All information about a student’s actual disability(ies) is kept confidential by the DRC. The DRC is located in the Counseling and Career Services Office in the Student Union Building. Please contact the Dean of Students, Linda Nickell, at 731-424-3520 x50354 or at lnickell@jscc.edu. Information also is available on the JSCC website at: http://www.jscc.edu/about-jackson-state/student-services/disabled-student-services.html.

G. Electronics: Turn your cell phones off and put them away during class. Students with excessive cell phone use will begin to lose attendance points. Cell phones and other electronic devices are not allowed during exams or quizzes, if you are seen using these during an assessment you will receive a zero, no questions asked. You may use your laptops, tablets etc. for note-taking and class activities only. Playing around on the internet/texting is a distraction to your fellow classmates, professor, and a waste of your time and money.

H. Cheating: Cheating will NOT be tolerated. If anyone is suspected of or caught cheating they will receive a zero on the assessment. Chronic cheating will result in referral to Academic Affairs and possible dismal from the class. Bottom-line – Don’t cheat, it is not worth it!!!

I. Extra Help: I am always happy to help you in any way that I can. I have an open door policy, if I am in my office don’t hesitate to stop by and chat. You can always reach me via email efore@jscc.edu. I do not check e-learn on the weekends. There is free tutoring available at the Academic Assistance center on campus. I can help set you up with a tutor if you would like.

J. Honors: If you are interested in taking this course as an honors course, learning more about, or applying to the JSCC honors program I would love to chat with you. Email me or come see me.

K. Email: Please check you JSCC email account regularly.
Dates of relevance
Jan. 14 – classes begin
Jan. 16 – last day to register late or add a class
Jan. 21 – MLK School Closed
Mar. 4-10 – Spring Break – NO classes
Mar. 25 – last day to drop a class or withdraw
Apr. 1st – priority registration for spring
Apr. 22nd – open registration
Apr. 26th – final day of classes
Apr. 30th- 8 am Final Exam in this class