SYLLABUS

DATE OF LAST REVIEW: 02/2013

CIP CODE: 24.0101

SEMESTER: DEPARTMENT SYLLABUS

COURSE TITLE: HUMAN ANATOMY AND LABORATORY

COURSE NUMBER: BIOL-0141

CREDIT HOURS: 4

INSTRUCTOR: DEPARTMENTAL SYLLABUS

OFFICE LOCATION: DEPARTMENTAL SYLLABUS

OFFICE HOURS: DEPARTMENTAL SYLLABUS

TELEPHONE: DEPARTMENTAL SYLLABUS

EMAIL: DEPARTMENTAL SYLLABUS

KCKCC-ISSUED EMAIL ACCOUNTS ARE THE OFFICIAL MEANS FOR ELECTRONICALLY COMMUNICATING WITH OUR STUDENTS.

PREREQUISITES: NONE

REQUIRED TEXT AND MATERIAL: Please check with the KCKCC bookstore, http://www.kckccbookstore.com for the required text for your particular class.

COURSE DESCRIPTION:
In a systematic study of the gross anatomical organizations of the human body, students examine the interrelationships of the structure of the human body and the general structure and functions of tissues, organs, and organ systems by means of models, skeletons, charts, and audio visual materials. Six hours lecture/integrated lab are required each week. This course is recommended for Life Science and Health Career majors only.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
The course outline is indicated below and is subject to change as course development dictates.

I. BODY ORGANIZATION: The major body plans and cavities along with pertinent anatomical terminology is emphasized. Topics covered include terms of direction, planes, cells, tissues, and division of the body into
II. SKELETON SYSTEM: Emphasizes the bones of the skull, vertebral column, and bones of the upper and lower limbs. Other topics include ossification, classification of bones, surface features, structure of bones, types of joints, and movements.

III. MUSCULAR SYSTEM: The major muscles of the body are learned, and the gross and microscopic structure of these muscles are discussed. The basic functional and histological differences of skeletal, smooth, and cardiac muscle are considered.

IV. CIRCULATORY SYSTEM: The basic structures of circulation are discussed. The components of the blood are considered, and the students trace blood flow through the heart and blood vessels of the body.

V. RESPIRATORY SYSTEM: The essential and accessory organs of respiration are studied. Other topics include gas exchange, external and internal respiration, vocalization, and breathing.

VI. URINARY SYSTEM: The gross and microscopic anatomy of the organs of the urinary system is studied. Size, location, structure, and function of the kidneys are studied.

VII. REPRODUCTIVE SYSTEM: Male and female reproductive structures are discussed. Topics covered include human embryology, pregnancy, homologous male and female structures, menstrual cycle, reproductive hormones, and the essential and accessory organs of male and female reproduction.

VIII. NERVOUS SYSTEM: Location and anatomical structure of the brain and spinal cord is studied. Other topics included are neuron anatomy, neuroglia, cranial and spinal nerves, autonomic nervous system and function of the brain.

IX. DIGESTIVE SYSTEM: The essential and accessory organs of the digestive system are studied. The concept of the digestive system as a tube within a tube is emphasized.

EXPECTED LEARNER OUTCOMES:
A. The student will know anatomical position and directions, body planes and regions, types of radiographic studies.
B. The student will know cell parts and functions and tissue types and functions.
C. The student will know integumentary system parts and functions.
D. The student will know skeletal system bones and functions.
E. The student will know movements and types of joints.
F. The student will know muscles and their functions.
G. The student will know nervous system parts and functions.
H. The student will know circulatory system parts and functions.
I. The student will know respiratory system parts and functions.
J. The student will know digestive system parts and functions.
K. The student will know urinary system parts and functions.
L. The student will know reproductive system parts and functions.

COURSE COMPETENCIES:
The student will know anatomical position and directions, body planes and regions, types of radiographic studies.
1. The students will name and describe the major body planes.
2. The students will name and describe the major body cavities.

The student will know cell parts and functions and tissue types and functions.
3. The students will define and describe cells, tissues, organs, and organ systems.

The student will know skeletal system bones and functions.
4. The students will diagram and describe the bones of the skull.
5. The students will diagram and describe the vertebrae column, upper and lower limbs.

The student will know movements and types of joints.
6. The students will name the types of joints and describe movements at joint locations. *The student will know muscles and their functions.*

7. The students will name all major skeletal muscles of the body.

8. The students will describe and draw all major skeletal muscles of the body.

9. The students will describe and illustrate features of skeletal, smooth, and cardiac muscle. *The student will know circulatory system parts and functions.*

10. The students will define and describe the organs of the cardiac system.

11. The students will draw pictures of the heart, arteries, veins, and capillaries.

12. The students will name the components in blood. *The student will know respiratory system parts and functions.*

13. The students will name all the organs of the respiratory system.

14. The students will define and describe all organs of the respiratory system.

15. The students will outline and list the steps involved in ventilation as outlined in class. *The student will know urinary parts and functions.*

16. The students will name and list the organs of the urinary system.

17. The students will describe the size and location of the kidneys.

18. The students will describe and draw the structural features of the kidney.

19. The students will define and describe the function of the kidney. *The students will know reproductive system parts and functions.*

20. The students will list and describe the structures of both the male and female reproductive systems.

21. The students will state in written form how hormones play a role in reproduction.

22. The students will write out the differences between the male and female reproductive systems. *The students will know nervous system parts and functions.*

23. The students will describe and list the parts of the brain.

24. The students will describe the functions of each part of the brain.

25. The students will label parts of the brain on a diagram.

26. The students will define and name the 12 pairs of cranial nerves.

27. The students will name the parts of a neuron and will define a nerve. *The students will know digestive system parts and functions.*

28. The students will name and define each organ that makes up the alimentary canal in the order presented in class.

29. The students will describe the function of each of these organs.

30. The students will label each digestive organ on a diagram.

**ASSESSMENT OF LEARNER OUTCOMES:**
Evaluation of student progress is based on attendance, class participation, oral examinations, and written and lab practical examinations.

The grading scale for this course will be:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Letter Grade</th>
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</thead>
<tbody>
<tr>
<td>90 – 100%</td>
<td>A</td>
</tr>
<tr>
<td>80 – 89%</td>
<td>B</td>
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<tr>
<td>70 – 79%</td>
<td>C</td>
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<tr>
<td>60 – 69%</td>
<td>D</td>
</tr>
<tr>
<td>0 – 59%</td>
<td>F</td>
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</tbody>
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**REQUIREMENTS FOR THE COURSE:**

1. Regular class attendance
2. Satisfactory completion of all assignments
3. Satisfactory completion of oral and written evaluations

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center, in Rm. 3354 or call at: 288-7670.