

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: BSC 2020C

COURSE TITLE: Human Biology

PREREQUISITE(S): None

COREQUISITE(S): None

CREDIT HOURS: 4

CONTACT HOURS/WEEK: 5

CONTACT HOUR BREAKDOWN:

Lecture/Discussion: 3

Laboratory: 2

Other _____:

FACULTY WORKLOAD POINTS: 4.4

STANDARDIZED CLASS SIZE
ALLOCATION: 24

CATALOG COURSE DESCRIPTION:

This course is an introduction to the science of biology with emphasis on cells and tissues, body organization, homeostasis, body systems, regulation and integration of body parts, reproduction, development and heredity, disease and disorder.

SUGGESTED TEXT(S): Human Body in Health and Disease, 9th Edition. Cohen, Barbara Jason, Lippincott. Williams and Wilkins, 2000

Human Biology, 8th Ed. Mader, Sylvia S. McGraw-Hill, 2004.

IMPLEMENTATION DATE: Fall Term, 1997 (981)

REVIEW OR MODIFICATION DATE: Fall Term, 2002 (20031)
Fall Term, 2006 (20071)
Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Chemistry	3
II. Cell Biology	3
III. Skeletal System	3
A. Anatomy and Physiology of system B. Common Disorders	
IV. Muscular System	3
A. Anatomy and Physiology of system B. Common Disorders	
V. Integumentary System	3
A. Anatomy and Physiology of system B. Common Disorders	
VI. Cardiovascular System	3
A. Anatomy and Physiology of system B. Common Disorders	
VII. Lymphatic System	3
A. Anatomy and Physiology of system B. Common Disorders	
VIII. Respiratory System	3
A. Anatomy and Physiology of system B. Common Disorders	
IX. Urinary System	3
A. Anatomy and Physiology of system B. Common Disorders	
X. Nervous System	3
A. Anatomy and Physiology of system B. Common Disorders	

COURSE TOPICS (Continued)		CONTACT HOURS <u>PER TOPIC</u>
XI.	Special Senses	3
	A. Vision	
	B. Auditory	
	C. Olfaction	
	D. Gustation	
XII.	Endocrine System	3
	A. Anatomy and Physiology of system	
	B. Common Disorders	
XIII.	Digestive System	3
	A. Anatomy and Physiology of system	
	B. Common Disorders	
XIV.	Reproductive Systems	3
	A. Anatomy and Physiology of systems	
	B. Common Disorders	
XV.	Tests and Quizzes	3
	Total	Lecture 45 hours
XVI.	Laboratory	30
8 required labs (16 contact hours) to include the following:		
	A. Introduction to microscopy and identification of tissues	4
	B. Skeleton anatomy (using articulated and disarticulated skeletons)	2
	C. Muscles identification (using muscle models or cat dissection)	2
	D. Urinary system (e.g. kidney dissection, urinalysis, etc.)	2
	E. Nervous system (e.g. identification of cranial nerves, brain dissection, etc.)	2

COURSE TOPICS (Continued)

CONTACT HOURS
PER TOPIC

F. Special and general senses (e.g. eye dissection, taste discrimination, two-point threshold for touch sensitivity, etc.)	2
G. The heart (e.g. sheep heart or beef heart dissection)	2

For the remaining 7 labs (14 contact hours) an instructor may choose from the following:

- H. 2nd lab on skeleton
(e.g. having 1st lab on axial skeleton, and 2nd lab on appendicular skeleton)
- I. 2nd lab on muscles
(e.g. 1st lab on superficial muscles, 2nd lab on deep muscles)
- J. 2nd lab on urinary system
- K. 2nd lab on nervous system
- L. Lab on cardiovascular system
(e.g. blood pressure monitoring, EKG's, major systemic arteries and veins)
- M. Lab utilizing fetal pig or cat dissection for anatomy of various systems
(e.g. digestive, respiratory, urinary, reproductive, etc.)
- N. Lab on mitosis/meiosis
- O. Practical laboratory exam(s)
- P. Lab(s) utilizing instructor's expertise

Total Lab 30 hours



**Florida State College
At Jacksonville**

**Course Learning Outcomes & Assessment
For All College Credit Courses**

NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: <u>BSC2020C</u>	SEMESTER CREDIT HOURS: <u>4</u>
COURSE TITLE: <u>Human Biology</u>	

<i>Section 2</i>
TYPE OF COURSE: (Click on the box to check all that apply)
<input type="checkbox"/> AA Elective <input type="checkbox"/> AS Required Professional Course <input type="checkbox"/> College Prep <input type="checkbox"/> AS Professional Elective <input type="checkbox"/> AAS Required Professional Course <input type="checkbox"/> Technical Certificate <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)

<i>Section 3 (If applicable)</i>
INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:
<input type="checkbox"/> Communications <input type="checkbox"/> Social & Behavioral Sciences <input type="checkbox"/> Mathematics <input checked="" type="checkbox"/> Natural Sciences <input type="checkbox"/> Humanities

<i>Section 4</i>
INTELLECTUAL COMPETENCIES:
<input checked="" type="checkbox"/> Reading <input checked="" type="checkbox"/> Speaking <input checked="" type="checkbox"/> Critical Analysis <input checked="" type="checkbox"/> Quantitative Skills <input checked="" type="checkbox"/> Scientific Method of Inquiry <input checked="" type="checkbox"/> Writing <input checked="" type="checkbox"/> Listening <input checked="" type="checkbox"/> Information Literacy <input checked="" type="checkbox"/> Ethical Judgment <input checked="" type="checkbox"/> Working Collaboratively

Section 5	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Explain and apply major concepts in human biology.	Written tests, reports and/or use of equipment to demonstrate student competency in field.
•	Demonstrate knowledge of scientific method.	Formulate problem, make observations, derive and test hypothesis and make conclusions.
•	Communicate scientific ideas through oral or written assignments.	Students use analytical reasoning skills to solve problems on written tests and/or laboratory work.
•	Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations.	Written reports of lab experiments and/or written tests demonstrate student competency in the application of scientific knowledge.
•	Demonstrate problem solving methods in situations that are encountered outside of the classroom.	Students use demonstrations, group discussions, written tests, laboratory reports, research projects and/or field experiences to illustrate competence in recognizing and evaluating various scientific processes.
•	Demonstrate proper laboratory technique including safety in the use and care of laboratory equipment and materials.	Results from laboratory work and experiments demonstrate student awareness of science and society.
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Section 6
Name of Person Completing This Form: <u>David Byres, Gary Hill</u> Date: <u>12/10/2004</u>

SECTION 7 MUST BE COMPLETED FOR ALL GENERAL EDUCATION COURSES ONLY (exclude AA electives)

<i>Section 7</i>	Primary	Secondary	N/A	VALUE	Primary	Secondary	N/A
KNOWLEDGE							
A. Global and Historical Knowledge & Understanding				Intellectual honesty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Comprehends a general knowledge of the nature, origins and contributions of major civilizations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Curiosity and openness to new ideas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Comprehends the workings and interrelations of personal, business and government economies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Recognition of one's own creative potential	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Comprehends political, social and economic systems and their effects upon society	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Acceptance of and respect for differences among people and cultures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Cultural and Aesthetic Knowledge and Understanding							
• Comprehends the contributions of the arts and humanities to the human experience on a personal, national or global level	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Civic Engagement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Comprehends the historical development of the arts and sciences	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lifelong Learning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Comprehends religious and cultural systems and their effects upon society	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
C. Human Awareness and Understanding							
• Comprehends the dynamics of human behavior and the process of increasing self-awareness, growth and development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
• Comprehends the stages of human development and the dynamics of human relationships in diverse cultures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
• Comprehends the factors that promote physical, mental and social well-being	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
D. Mathematics, Science and Technology							
• Comprehends the basic concepts and investigative processes of the natural sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
• Comprehends the breadth, significance and development of the mathematical sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
• Comprehends the ways science and technology have shaped and continue to reshape human cultures and the environment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Section 8

Name of Person Completing This Form: David Byres, Gary Hill Date: 12/10/2004