



REID STATE TECHNICAL COLLEGE
SPRING SEMESTER 2017

I. BIO201 – HUMAN ANATOMY AND PHYSIOLOGY I

- Theory 3 credit hours
- Lab 1 credit hour
- Clinical 0 credit hours
- Total 4 credit hours
- Total contact hours - 5

II. CLASS MEETING DATES/TIMES/LOCATION

ATMORE:

BIO201 AN – THURSDAY, 12:50 - 5:20PM
ROOM 107

III. CLINICAL DATES/TIMES/LOCATION (None)

IV. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

Mr. James J. Ashcraft
Office: Library/Second Floor, Rm. 218
Office Phone Number: (251) 578-1313 EXT#244
Email: jashcraft@rstc.edu
Office Hours will be posted on office door

V. COURSE DESCRIPTION:

This course is an overview of two complimentary branches of science: anatomy and physiology. These branches will provide students with critical concepts that will help them understand the structure and function of the human body. This course will cover orientation of the human body, basic principles of chemistry, histology, metabolism, joints, the integumentary, skeletal, muscular, nervous system, and the senses.

VI. PREREQUISITE(S)/CO-REQUISITE(S)

PREREQUISITE COURSES

BIOLOGY 103 IS HIGHLY RECOMMENDED.

CO-REQUISITE COURSES

None

VII. TEXTBOOK(S) AND OTHER LEARNING RESOURCES

*Scanlon, Valerie C. and Sanders, Tina. Essentials of Anatomy and Physiology, 7th edition. F.A. Davis Company. 2011

* Scanlon, Valerie C. and Sanders, Tina. Student Workbook for Essentials of Anatomy and Physiology, 7th edition. F. A. Davis Company. 2011

You will need to purchase latenitelabs from either the bookstore, **BEFORE THE 14th**, or from the website (www.latenitelabs.com). Section Code: 32108571

***MANDATORY**

VIII. PROFESSIONAL COMPETENCIES/OBJECTIVES

MODULE A – BODY STRUCTURE AND FUNCTION

- A1.1.1 Define terms associated with the structure and function of the body.
- A1.1.2 List organizational levels of the body in order of increasing complexity.
- A1.1.3 Explain anatomical position.
- A1.1.4 List anatomical directions.
- A1.1.5 Explain anatomical directions.
- A1.1.6 Explain the relationship of anatomical directional terms to the body.
- A1.1.7 Identify planes or body sections.
- A1.1.8 Explain planes or body sections.
- A1.1.9 Identify body cavities and subdivisions of each.
- A1.1.10 Identify body regions and subdivisions of each.
- A1.1.11 Explain mechanisms to maintain homeostasis.
- A1.1.12 Relate medical terminology to the structure and function of the body.

MODULE B – CHEMISTRY OF LIFE

- B1.1.1 Define terms associated with the levels of chemical organization.
- B1.1.2 Identify three kinds of particles within an atom.
- B1.1.3 Differentiate between ionic bonds and covalent bonds.
- B1.1.4 Differentiate between organic and inorganic compounds.
- B1.1.5 Explain the difference between solvent and solute.
- B1.1.6 Explain the concept of pH.
- B1.1.7 Explain the difference between acid and base.
- B1.1.8 Explain the structure and function of carbohydrates, proteins, lipids, and nucleic acids.
- B1.1.9 Relate medical terminology to chemistry of life.

MODULE C – CELLS AND TISSUES

- C.1.1.1 Define terms associated with cells and tissues.
- C.1.1.2 Identify the parts of a cell.
- C.1.1.3 Explain the structure and functions of organelles.
- C.1.1.4 Identify the processes that move substances through cell membranes.
- C.1.1.5 Compare the passive and active transport processes.
- C.1.1.6 Explain the flow of fluids through the cell membrane.
- C.1.1.7 Explain factors that affect tonicity.
- C.1.1.8 Explain cellular reproduction.
- C.1.1.9 Identify types of tissues.

MODULE D – INTRODUCTION TO ORGAN SYSTEMS

- D1.1.1 List the major organ systems.
- D1.1.2 Explain the structure of each system.
- D1.1.3 Explain the function of each system.
- D1.1.4 Relate medical terminology to organ systems.

MODULE E – INTEGUMENTARY SYSTEM AND BODY MEMBRANES

- E1.1.1 Define terms associated with the integumentary system.
- E1.1.2 Identify types of body membranes.
- E1.1.3 Describe the structure of the skin.
- E1.1.4 Describe the function of the skin.
- E1.1.5 Identify appendages of the skin.
- E1.1.6 Relate medical terminology to the integumentary system.

MODULE F – SKELETAL SYSTEM

- F1.1.1 Define terms associated with the skeletal system.
- F1.1.2 Explain the functions of the skeletal system.
- F1.1.3 Identify types of bones.
- F1.1.4 Identify the anatomical structures found in long bones.
- F1.1.5 Explain the microscopic structure of bone and cartilage.
- F1.1.6 Explain bone formation and growth.
- F1.1.7 Identify the two divisions of the skeletal system.
- F1.1.8 List the bones found in the two divisions of the skeletal system.
- F1.1.9 Differentiate between male and female skeletal structures.
- F1.1.10 Identify types of joints.
- F1.1.11 Differentiate the movements allowed by different types of joints.
- F1.1.12 Relate medical terminology to the skeletal system.

MODULE G – MUSCULAR SYSTEM

- G1.1.1 Define terms associated with the muscular system.
- G1.1.2 Identify types of muscle tissue.
- G1.1.3 Explain the structure of skeletal muscles.
- G1.1.4 Explain the functions of skeletal muscles.
- G1.1.5 Explain how muscles utilize energy.
- G1.1.6 Explain the role of other body systems in movement.
- G1.1.7 Explain innervations to muscle tissue.
- G1.1.8 Identify types of skeletal muscle contractions.
- G1.1.9 Identify selected muscle groups.
- G1.1.10 Explain the function of selected muscle groups.
- G1.1.11 Explain movements produced by skeletal muscle contractions.
- G1.1.12 Relate medical terminology to the muscular system.

MODULE H – NERVOUS SYSTEM

- H1.1.1 Define terms associated with the nervous system.
- H1.1.2 Identify the organization of the nervous system.
- H1.1.3 Identify types of cells of the nervous system.
- H1.1.4 Explain the function of neurons and glia cells.
- H1.1.5 Identify the reflex pathways of the nervous system.
- H1.1.6 Explain propagation of nerve impulses.
- H1.1.7 Identify components of the central nervous system.
- H1.1.8 Explain the function of the components of the central nervous system.
- H1.1.9 Identify components of the peripheral nervous system.
- H1.1.10 Explain the function of the components of the peripheral nervous system.
- H1.1.11 Differentiate between somatic and autonomic nervous systems.
- H1.1.12 Relate medical terminology to the nervous system.

MODULE I – SENSORY

- I1.1.1 Define terms associated with the senses.
- I1.1.2 Identify the general sense organs.
- I1.1.3 Explain the function of the general sense organs.
- I1.1.4 Identify special sense organs.
- I1.1.5 Identify the structure of the special sense organs.
- I1.1.6 Explain the function of the special sense organs.
- I1.1.7 Relate medical terminology to the senses.

IX. OUTLINE OF TOPICS AND CHAPTERS

- Chapter 1: Organization of the human body
- Chapter 2: The chemical basis of life
- Chapter 3: Anatomy and Physiology of cells
- Chapter 4: Tissues and membranes Tissue identification
- Chapter 5: Anatomy and Physiology of integumentary system
- Chapter 6: Anatomy and Physiology of the skeletal system, Bone identification; bone names and landmarks, Articulations
- Chapter 7: Anatomy and Physiology of the muscular system, Muscle identification
- Chapter 8: Anatomy and Physiology of the nervous system
- Chapter 9: Special senses

X. EVALUATION AND ASSESSMENT

| Assignment | Total Points |
|--|--------------------|
| 3 Lecture Exams (100pts ea.) | 300 points |
| 10 Laboratory/Daily Grades (10pts ea.) | 100 points |
| 3 Lab Exams (100 pts ea.) | 300 points |
| 3 Vocabulary Quizzes (50 pts ea.) | 150 points |
| Final Exam (1/3 Cumulative; 2/3 new content) | 150 points |
| Total Points for Bio 201 | 1000 points |

GRADING SCALE

| GRADE | PERCENTAGE |
|-------|------------|
| A | 89.5-100% |
| B | 79.5-89.4% |
| C | 69.5-79.4% |
| D | 59.5-69.4% |
| F | 0-59.4% |

A grade of “D” or “F” is not acceptable in any course in the practical nursing curriculum, including math, English, and biology. A student must maintain a “C” or better to progress.

XI. MAKE-UP WORK REQUIREMENTS

Make-up exams will be permitted given the PRIOR permission of the instructor or a WRITTEN Doctor’s excuse. Sending an email or leaving a voicemail does NOT constitute permission. All make-up exams will be given the following week. The format of the make-up exam is at the instructor’s discretion. Labs must be made up provided the student receives prior permission or provides a written doctor’s excuse. The student will receive a deadline date from the instructor, and it is the student’s responsibility to set up a date and time with the instructor to make up the lab. If the lab is not made up by this deadline the student will receive a grade of zero for that lab unless a written doctor’s excuse is provided.

XII. CLASSROOM REQUIREMENTS

Classroom etiquette: When in lecture and lab please put all cell phones and electronics on silent or turn them off. **No texting in class.** Please refrain from talking to other students during class. Asking questions and participating in teacher-facilitated discussion is encouraged. If you are tardy to a lecture please come in and sit quietly in a desk near to the door as to not disrupt the instructor or other students. If you would like to bring a recorder to class, please ask permission of the instructor before doing so.

Conflicts in the classroom: If you find at any time during the semester that a conflict arises please notify me (the instructor) immediately. Examples of conflicts include problems with another student, problems with content or subject matter, direct problems with the instructor. I hope that in any of these circumstances you, the student, can feel comfortable enough to come to me to discuss this matter.

XIII. ATTENDANCE

All students are expected to attend all class meetings. Attendance will be taken every day at the beginning of each class period. If a student misses either 3 class meetings in a row or 5 class meetings for the semester, without any notification, an unofficial withdrawal form will be submitted by the instructor and the student will be withdrawn from the course. Missed exams and assignments will be allowed to be made up provided a reasonable excuse is provided. All missed labs and exams must be made up on the following class meeting, unless special permission is given by the instructor ahead of time.

XIV. STATEMENT ON DISCRIMINATION/HARASSMENT

The College and the Alabama Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

XV. AMERICANS WITH DISABILITIES

The Rehabilitation Act of 1973 (Section 504) and the American with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. **Please contact Dr. Purifoy at tpurifoy@rstc.edu or extension 151**

**XVI. COURSE CALENDAR
BIO201**

Tentative Schedule:

| | |
|----------------|---|
| WEEK 1 | Go over Syllabus and Chapter 1 |
| WEEK 2 | Chapter 2 |
| WEEK 3 | Vocabulary Quiz 1 , Chapter 3 |
| WEEK 4 | Chapter 5 |
| WEEK 5 | Exam 1 , Begin chapter 4, Begin tissue slide (epithelium) |
| WEEK 6 | Finish Chapter 4, add more tissue slide (connective tissue) |
| WEEK 7 | Tissue Identification Test , Begin Chapter 6, work on skull bones |
| WEEK 8 | Vocabulary Quiz 2 , Finish chapter 6, work on axial skeleton |
| WEEK 9 | Exam 2 , Begin chapter 7, work on appendicular skeleton |
| WEEK 10 | Continue chapter 7, review bones |
| WEEK 11 | Bone Identification Test , Finish Chapter 7, begin muscle identification |
| WEEK 12 | Exam 3 , Begin Chapter 8, continue muscle identification |
| WEEK 13 | Vocabulary Quiz 3 , Finish Chapter 8, Chapter 9, review muscle ID |
| WEEK 14 | Muscle Identification Test , Review for Final |
| WEEK 15 | Final Exam |

XVII. STUDENT ACKNOWLEDGEMENT FORM

This is to verify that I have received a copy of my BIO 201 syllabus and understand the content therein. I agree to abide by all rules and policies set forth in this syllabus and by the college.

This is a tentative syllabus. the instructor has the right to alter any material listed in this syllabus, but will announce any changes to students at least one week in advance of the change.

Student Printed Name: _____

Student Signature: _____

Email address: _____

Date: _____



REID STATE TECHNICAL COLLEGE
SPRING SEMESTER 2017

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- Total contact hours - 5

II. CLASS MEETING DATES/TIMES/LOCATION

EVERGREEN:

BIO201 EN – TUESDAY, 7:50 - 12:20PM
NURSING BUILDING – ROOM 202

III. CLINICAL DATES/TIMES/LOCATION (None)

IV. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

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PREREQUISITE COURSES

BIOLOGY 103 IS HIGHLY RECOMMENDED.

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- B1.1.1 Define terms associated with the levels of chemical organization.
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MODULE C – CELLS AND TISSUES

- C.1.1.1 Define terms associated with cells and tissues.
- C.1.1.2 Identify the parts of a cell.
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- C.1.1.8 Explain cellular reproduction.
- C.1.1.9 Identify types of tissues.

MODULE D – INTRODUCTION TO ORGAN SYSTEMS

- D1.1.1 List the major organ systems.
- D1.1.2 Explain the structure of each system.
- D1.1.3 Explain the function of each system.
- D1.1.4 Relate medical terminology to organ systems.

MODULE E – INTEGUMENTARY SYSTEM AND BODY MEMBRANES

- E1.1.1 Define terms associated with the integumentary system.
- E1.1.2 Identify types of body membranes.
- E1.1.3 Describe the structure of the skin.
- E1.1.4 Describe the function of the skin.
- E1.1.5 Identify appendages of the skin.
- E1.1.6 Relate medical terminology to the integumentary system.

MODULE F – SKELETAL SYSTEM

- F1.1.1 Define terms associated with the skeletal system.
- F1.1.2 Explain the functions of the skeletal system.
- F1.1.3 Identify types of bones.
- F1.1.4 Identify the anatomical structures found in long bones.
- F1.1.5 Explain the microscopic structure of bone and cartilage.
- F1.1.6 Explain bone formation and growth.
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MODULE G – MUSCULAR SYSTEM

- G1.1.1 Define terms associated with the muscular system.
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MODULE H – NERVOUS SYSTEM

- H1.1.1 Define terms associated with the nervous system.
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- I1.1.5 Identify the structure of the special sense organs.
- I1.1.6 Explain the function of the special sense organs.
- I1.1.7 Relate medical terminology to the senses.

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|-------|------------|
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**XVI. COURSE CALENDAR
BIO201**

Tentative Schedule:

| | |
|----------------|---|
| WEEK 1 | Go over Syllabus and Chapter 1 |
| WEEK 2 | Chapter 2 |
| WEEK 3 | Vocabulary Quiz 1 , Chapter 3 |
| WEEK 4 | Chapter 5 |
| WEEK 5 | Exam 1 , Begin chapter 4, Begin tissue slide (epithelium) |
| WEEK 6 | Finish Chapter 4, add more tissue slide (connective tissue) |
| WEEK 7 | Tissue Identification Test , Begin Chapter 6, work on skull bones |
| WEEK 8 | Vocabulary Quiz 2 , Finish chapter 6, work on axial skeleton |
| WEEK 9 | Exam 2 , Begin chapter 7, work on appendicular skeleton |
| WEEK 10 | Continue chapter 7, review bones |
| WEEK 11 | Bone Identification Test , Finish Chapter 7, begin muscle identification |
| WEEK 12 | Exam 3 , Begin Chapter 8, continue muscle identification |
| WEEK 13 | Vocabulary Quiz 3 , Finish Chapter 8, Chapter 9, review muscle ID |
| WEEK 14 | Muscle Identification Test , Review for Final |
| WEEK 15 | Final Exam |

XVII. STUDENT ACKNOWLEDGEMENT FORM

This is to verify that I have received a copy of my BIO 201 syllabus and understand the content therein. I agree to abide by all rules and policies set forth in this syllabus and by the college.

This is a tentative syllabus. the instructor has the right to alter any material listed in this syllabus, but will announce any changes to students at least one week in advance of the change.

Student Printed Name: _____

Student Signature: _____

Email address: _____

Date: _____



REID STATE TECHNICAL COLLEGE
SPRING SEMESTER 2017

I. BIO202 – HUMAN ANATOMY AND PHYSIOLOGY II

- Theory 3 credit hours
- Lab 1 credit hour
- Clinical 0 credit hours
- Total 4 credit hours
- Total contact hours - 5

II. CLASS MEETING DATES/TIMES/LOCATION

ATMORE:

BIO202 AN – MONDAY, 7:50 - 12:20PM
ROOM 107

III. CLINICAL DATES/TIMES/LOCATION (None)

IV. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

Mr. James J. Ashcraft
Office: Library/Second Floor, Rm. 218
Office Phone: (251) 578-1313 EXT#244
Email: jashcraft@rstc.edu
Office Hours will be posted on office door

V. COURSE DESCRIPTION:

Human Anatomy and Physiology II covers the structure and function of the human body. Included is a study of basic nutrition, basic principles of water, electrolytes, acid-base balance, the endocrine, respiratory, digestive, excretory, cardiovascular, lymphatic, and reproductive systems. Dissection, histological studies, and physiology are featured in the laboratory experience.

VI. PREREQUISITE(S)/CO-REQUISITE(S)

PREREQUISITE COURSES

BIOLOGY 201 IS HIGHLY RECOMMENDED.

CO-REQUISITE COURSES

None

VII. TEXTBOOK(S) AND OTHER LEARNING RESOURCES

*Scanlon, Valerie C. and Sanders, Tina. Essentials of Anatomy and Physiology, 7th edition. F.A. Davis Company. 2011

* Scanlon, Valerie C. and Sanders, Tina. Student Workbook for Essentials of Anatomy and Physiology, 7th edition. F. A. Davis Company. 2011

***MANDATORY**

VIII. PROFESSIONAL COMPETENCIES/OBJECTIVES

MODULE J – ENDOCRINE SYSTEM

- J1.1.1 Define terms associated with the endocrine system.
- J1.1.2 Identify types of hormones.
- J1.1.3 Explain functions of hormones.
- J1.1.4 Explain the mechanism of hormone secretion.
- J1.1.5 Identify types of glands.
- J1.1.6 Explain the function of selected glands.
- J1.1.7 Identify hormones secreted by selected glands.
- J1.1.8 Explain the function of hormones secreted by selected glands.
- J1.1.9 Relate medical terminology to the endocrine system.

MODULE K – BLOOD

- K1.1.1 Define terms associated with blood.
- K1.1.2 Explain the composition of blood.
- K1.1.3 Explain the function of blood components.
- K1.1.4 Differentiate between normal and abnormal blood values.
- K1.1.5 Explain the steps involved in blood clotting.
- K1.1.6 Describe blood type based on Rh and ABO.
- K1.1.7 Relate medical terminology to blood.

MODULE L – CIRCULATORY SYSTEM

- L1.1.1 Define terms associated with the circulatory system.
- L1.1.2 Identify the structures of the circulatory system.
- L1.1.3 Explain the functions of the circulatory system.
- L1.1.4 Trace the path of blood through the circulatory system.
- L1.1.5 Explain the physiology of blood pressure.
- L1.1.6 Identify factors that influence blood pressure.
- L1.1.7 Explain variations in blood pressure.
- L1.1.8 Identify pulse points.
- L1.1.9 Relate medical terminology to circulatory system.

MODULE M – LYMPHATIC SYSTEM AND IMMUNITY

- M1.1.1 Define terms associated with the lymphatic system.
- M1.1.2 Identify structures of the lymphatic system.
- M1.1.3 Explain immunity as a function of the lymphatic system.
- M1.1.4 Differentiate between specific and nonspecific immunity.
- M1.1.5 Identify the immune system molecules.
- M1.1.6 Explain the function of immune system molecules.
- M1.1.7 Identify immune system cells.
- M1.1.8 Explain the function of immune system cells.
- M1.1.9 Relate medical terminology to the lymphatic system and immunity.

MODULE N – RESPIRATORY SYSTEM

- N1.1.1 Define terms associated with the respiratory system.
- N1.1.2 Identify structures of the respiratory system.
- N1.1.3 Explain functions of the respiratory system.
- N1.1.4 Explain the mechanics of respiration.
- N1.1.5 Explain mechanisms that regulate respiration.
- N1.1.6 Relate medical terminology to the respiratory system.

MODULE O – GASTROINTESTINAL SYSTEM

- O1.1.1 Define terms associated with the gastrointestinal system.
- O1.1.2 Identify the structures of the upper gastrointestinal tract.
- O1.1.3 Explain functions of the upper gastrointestinal tract.
- O1.1.4 Identify the structures of the lower gastrointestinal tract.
- O1.1.5 Explain functions of the lower gastrointestinal tract.
- O1.1.6 Identify the structure of accessory organs.
- O1.1.7 Explain functions of accessory organs.
- O1.1.8 Explain types of digestion.
- O1.1.9 Relate medical terminology to the gastrointestinal system

MODULE P – NUTRITION AND METABOLISM

- P1.1.1 Define terms associated with nutrition and metabolism.
- P1.1.2 Explain the metabolic function of the liver.
- P1.1.3 Explain nutrient metabolism.
- P1.1.4 Explain the role of nutrition and metabolism on body temperature.
- P1.1.5 Explain factors that affect metabolic rate.
- P1.1.6 Relate medical terminology nutrition and metabolism.

MODULE Q – URINARY SYSTEM

- Q1.1.1 Define terms associated with the urinary system.
- Q1.1.2 Identify structures of the urinary system.
- Q1.1.3 Explain functions of the urinary system.
- Q1.1.4 Explain the process of urine formation.
- Q1.1.5 Relate medical terminology to the urinary system.

MODULE R – FLUID AND ELECTROLYTE BALANCE

- R1.1.1 Define terms associated with fluid and electrolyte balance.
- R1.1.2 Identify body fluid compartments.
- R1.1.3 Identify sources of fluids.
- R1.1.4 Identify common electrolytes.
- R1.1.5 Explain the function of fluids and electrolytes.
- R1.1.6 Describe mechanisms that maintain fluid and electrolyte balance.
- R1.1.7 Relate medical terminology to fluid and electrolyte balance.

MODULE S – ACID-BASE BALANCE

- S1.1.1 Define terms associated with acid-base balance.
- S1.1.2 Explain the concept of pH.
- S1.1.3 Explain pH of body fluids.
- S1.1.4 Identify normal arterial blood gas values.
- S1.1.5 Identify the mechanisms that control pH of body fluids.
- S1.1.6 Explain the mechanisms that control pH of body fluids.
- S1.1.7 Identify the difference between normal and abnormal acid-base values.
- S1.1.8 Relate medical terminology to acid-base balance.

MODULE T – REPRODUCTIVE SYSTEM

- T1.1.1 Define terms associated with the reproductive system.
- T1.1.2 Identify structures of the male reproductive system.
- T1.1.3 Explain functions of the male reproductive system.
- T1.1.4 Identify structures of the female reproductive system.
- T1.1.5 Explain functions of the female reproductive system.
- T1.1.6 Explain functions of male and female reproductive hormones.
- T1.1.7 Relate medical terminology to the reproductive system.

IX. OUTLINE OF TOPICS AND CHAPTERS

- Chapter 10: Endocrine system
- Chapter 11: Blood
- Chapter 12: Cardiovascular/Circulatory system anatomy
- Chapter 13: Cardiovascular/Circulatory system physiology
- Chapter 14: Lymphatic system
- Chapter 14: Immune system
- Chapter 14: Stress
- Chapter 15: Anatomy of respiratory system
- Chapter 15: Physiology of respiratory system
- Chapter 16: Anatomy of digestive system
- Chapter 16: Physiology of digestive system
- Chapter 17: Nutrition
- Chapter 18: Anatomy and physiology of the urinary system
- Chapter 19: Fluid and electrolyte balance
- Chapter 19: pH balance
- Chapter 20: Anatomy and physiology of male reproductive system
- Chapter 20: Anatomy and physiology of female reproductive system
- Chapter 21: Growth and development
- Chapter 21: Genetics

X. EVALUATION AND ASSESSMENT

| Assignment | Total Points |
|--|-------------------|
| 4 Lecture Exams (100pts ea.) | 400 points |
| 10 Laboratory/Daily Grades (20pts ea.) | 200 points |
| 1 Lab Exams (100 pts.) | 100 points |
| Final Exam | 200 points |
| Total Points for Bio 202 | 900 points |

GRADING SCALE

| GRADE | PERCENTAGE |
|-------|------------|
| A | 89.5-100% |
| B | 79.5-89.4% |
| C | 69.5-79.4% |
| D | 59.5-69.4% |
| F | 0-59.4% |

A grade of “D” or “F” is not acceptable in any course in the practical nursing curriculum, including math, English, and biology. A student must maintain a “C” or better to progress.

XI. MAKE-UP WORK REQUIREMENTS

Make-up exams will be permitted given the PRIOR permission of the instructor or a WRITTEN Doctor’s excuse. Sending an email or leaving a voicemail does NOT constitute permission. All make-up exams will be given the following week. The format of the make-up exam is at the instructor’s discretion. Labs must be made up provided the student receives prior permission or provides a written doctor’s excuse. The student will receive a deadline date from the instructor, and it is the student’s responsibility to set up a date and time with the instructor to make up the lab. If the lab is not made up by this deadline the student will receive a grade of zero for that lab unless a written doctor’s excuse is provided.

XII. CLASSROOM REQUIREMENTS

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Conflicts in the classroom: If you find at any time during the semester that a conflict arises please notify me (the instructor) immediately. Examples of conflicts include problems with another student, problems with content or subject matter, direct problems with the instructor. I hope that in any of these circumstances you the student can feel comfortable enough to come to me to discuss this matter.

XIII. ATTENDANCE

All students are expected to attend all class meetings. Attendance will be taken every day at the beginning of each class period. If a student misses either 3 class meetings in a row or 5 class meetings for the semester, without any notification, an unofficial withdrawal form will be submitted by the instructor and the student will be withdrawn from the course. Missed exams and assignments will be allowed to be made up provided a reasonable excuse is provided. All missed labs and exams must be made up on the following class meeting, unless special permission is given by the instructor ahead of time.

XIV. STATEMENT ON DISCRIMINATION/HARASSMENT

The College and the Alabama Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

XV. AMERICANS WITH DISABILITIES

The Rehabilitation Act of 1973 (Section 504) and the American with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. **Please contact Dr. Purifoy at tpurifoy@rstc.edu or extension 151**

**XVI. COURSE CALENDAR
BIO202**

Tentative Schedule:

| | |
|----------------|--|
| WEEK 1 | Go over Syllabus and Chapter 10; lab exercise |
| WEEK 2 | Chapter 18 and 19; view kidney and urinary bladder slides |
| WEEK 3 | Exam 1 , Begin Chapter 20; view ovary and testes slides |
| WEEK 4 | Finish Chapter 20; Begin Chapter 21; lab exercise |
| WEEK 5 | Finish chapter 21, review for test; review slides |
| WEEK 6 | Exam 2 , Begin Chapter 15; add trachea, normal lung, and abnormal lung slides |
| WEEK 7 | Finish chapter 15; review slides; lab exercise |
| WEEK 8 | Chapter 11; add blood slides |
| WEEK 9 | Chapter 12; Chapter 13; add heart structures; heart dissection |
| WEEK 10 | Exam 3 ; Begin Chapter 14; review slides |
| WEEK 11 | Finish Chapter 14; add lymph node, thymus, and spleen slides |
| WEEK 12 | Exam 4 , Begin Chapter 16; add stomach slide |
| WEEK 13 | Finish Chapter 16; chapter 17; lab exercise |
| WEEK 14 | Organ Identification Test , Review for Final |
| WEEK 15 | Final Exam (1/3 Cumulative and 2/3 chapters 16 and 17) |

XVII. STUDENT ACKNOWLEDGEMENT FORM

This is to verify that I have received a copy of my BIO 202 syllabus and understand the content therein. I agree to abide by all rules and policies set forth in this syllabus and by the college.

This is a tentative syllabus. the instructor has the right to alter any material listed in this syllabus, but will announce any changes to students at least one week in advance of the change.

Student Printed Name: _____

Student Signature: _____

Email address: _____

Date: _____



REID STATE TECHNICAL COLLEGE
SPRING SEMESTER 2017

I. BIO202 – HUMAN ANATOMY AND PHYSIOLOGY II

- Theory 3 credit hours
- Lab 1 credit hour
- Clinical 0 credit hours
- Total 4 credit hours
- Total contact hours - 5

II. CLASS MEETING DATES/TIMES/LOCATION

EVERGREEN:

BIO202 EN – FRIDAY, 7:50 - 12:20PM
NURSING BUILDING – ROOM 202

III. CLINICAL DATES/TIMES/LOCATION (None)

IV. INSTRUCTOR, CONTACT INFORMATION, CONTACT POLICY, OFFICE HOURS/LOCATION

Mr. James J. Ashcraft
Office: Library/Second Floor, Rm. 218
Office Phone: (251) 578-1313 EXT#244
Email: jashcraft@rstc.edu
Office Hours will be posted on office door

V. COURSE DESCRIPTION:

Human Anatomy and Physiology II covers the structure and function of the human body. Included is a study of basic nutrition, basic principles of water, electrolytes, acid-base balance, the endocrine, respiratory, digestive, excretory, cardiovascular, lymphatic, and reproductive systems. Dissection, histological studies, and physiology are featured in the laboratory experience.

VI. PREREQUISITE(S)/CO-REQUISITE(S)

PREREQUISITE COURSES

BIOLOGY 201 IS HIGHLY RECOMMENDED.

CO-REQUISITE COURSES

None

VII. TEXTBOOK(S) AND OTHER LEARNING RESOURCES

*Scanlon, Valerie C. and Sanders, Tina. Essentials of Anatomy and Physiology, 7th edition. F.A. Davis Company. 2011

* Scanlon, Valerie C. and Sanders, Tina. Student Workbook for Essentials of Anatomy and Physiology, 7th edition. F. A. Davis Company. 2011

***MANDATORY**

VIII. PROFESSIONAL COMPETENCIES/OBJECTIVES

MODULE J –ENDOCRINE SYSTEM

- J1.1.1 Define terms associated with the endocrine system.
- J1.1.2 Identify types of hormones.
- J1.1.3 Explain functions of hormones.
- J1.1.4 Explain the mechanism of hormone secretion.
- J1.1.5 Identify types of glands.
- J1.1.6 Explain the function of selected glands.
- J1.1.7 Identify hormones secreted by selected glands.
- J1.1.8 Explain the function of hormones secreted by selected glands.
- J1.1.9 Relate medical terminology to the endocrine system.

MODULE K – BLOOD

- K1.1.1 Define terms associated with blood.
- K1.1.2 Explain the composition of blood.
- K1.1.3 Explain the function of blood components.
- K1.1.4 Differentiate between normal and abnormal blood values.
- K1.1.5 Explain the steps involved in blood clotting.
- K1.1.6 Describe blood type based on Rh and ABO.
- K1.1.7 Relate medical terminology to blood.

MODULE L – CIRCULATORY SYSTEM

- L1.1.1 Define terms associated with the circulatory system.
- L1.1.2 Identify the structures of the circulatory system.
- L1.1.3 Explain the functions of the circulatory system.
- L1.1.4 Trace the path of blood through the circulatory system.
- L1.1.5 Explain the physiology of blood pressure.
- L1.1.6 Identify factors that influence blood pressure.
- L1.1.7 Explain variations in blood pressure.
- L1.1.8 Identify pulse points.
- L1.1.9 Relate medical terminology to circulatory system.

MODULE M – LYMPHATIC SYSTEM AND IMMUNITY

- M1.1.1 Define terms associated with the lymphatic system.
- M1.1.2 Identify structures of the lymphatic system.
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- M1.1.7 Identify immune system cells.
- M1.1.8 Explain the function of immune system cells.
- M1.1.9 Relate medical terminology to the lymphatic system and immunity.

MODULE N – RESPIRATORY SYSTEM

- N1.1.1 Define terms associated with the respiratory system.
- N1.1.2 Identify structures of the respiratory system.
- N1.1.3 Explain functions of the respiratory system.
- N1.1.4 Explain the mechanics of respiration.
- N1.1.5 Explain mechanisms that regulate respiration.
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MODULE O – GASTROINTESTINAL SYSTEM

- O1.1.1 Define terms associated with the gastrointestinal system.
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- T1.1.1 Define terms associated with the reproductive system.
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- T1.1.4 Identify structures of the female reproductive system.
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