

## Vision Charter School

### 2011-2012 School year

- 1. Course Number and Title:** Anatomy and Physiology 03053 (Human Biology)
- 2. Course Description:** A survey of the human body and it's systems with an emphasis on identification and integration of form with function.
- 3. Credit Hours:** 2 (high School); 4 (if taken for college credit)
- 4. Course Prerequisites:** Passed General Biology with a C or higher and has instructor's permission to enter class.
- 5. Course Dates:** 8/17/11 through 5/25/12
- 6. Course Times:** 1<sup>st</sup> period (8:15-9:50) A days.
- 7. Course Location:** Vision Charter School (room G-1)
- 8. Instructor:** Jason George *Email:* [jasongeorge@visioncsd.org](mailto:jasongeorge@visioncsd.org)
- 9. Required Text and Other Learning Resources:** All resources will be provided via web or in class. Students are responsible to keep a portfolio of their work and maintain their class notes to study for frequent tests and quizzes.
- 10. Course Overview:** Students will investigate the major systems of the vertebrate body through lecture, reading, dissection, experimentation, and art. Emphasis will be placed on human anatomy and physiology, and students will be connected to real world health related professions. Comparative dissections will also be a major part of this course. Frequently we will use case studies to teach real world application to that particular biological system.
- 11. Course Objectives:** Upon Completion of this course, students should be able to do the following:
  - Have a basic understanding of important terminology as it relates to human anatomy and physiology. Students will also build a solid vocabulary using Latin root words as they relate to anatomy.
  - Understand how to properly use the scientific method to engage in inquiry based research and experimentation.
  - Interpret scientific data and consult reliable sources for up to date scientific research.
  - Utilize critical thinking skills and comparative anatomy to correctly identify parts of the body and explain their function.
  - Demonstrate how to properly dissect various vertebrates and compare them to the human body.
- 12. Course Calendar/Schedule (Tentative):** Each block represents roughly 100 minutes. Lab are based on the availability of materials.

Quarter Taught	Topic	Lesson	Key Terms/Concepts	Time Frame
1 <sup>st</sup> Quarter	Body Organization	Lecture, Lab, & Quiz		6 blocks
	Integumentary System	Lecture, Lab, & Quiz	<i>Guest Speaker: Dermatologist</i>	2 blocks
	Skeletal	Lecture, Lab,	<i>Lab:</i>	6-8 blocks

	System	& Test over 206 bones		
	Articulations (Joints)	Lecture, Lab, & Quiz	<b>Guest Speaker: Orthopedic Surgeon</b>	<b>3 blocks</b>
<b>EXAM 1</b>			<b>Quarter 1 Comprehensive Exam.</b>	
<b>2nd Quarter</b>	Muscular System	Lecture, Lab, & Test over major muscle groups.		<b>6-8 blocks</b>
	Nerve, Muscle, and synapse physiology.*	Lecture, Lab, & Quiz	<b>Lab: Sheep Brain Dissection?</b>	<b>4 blocks</b>
	Nervous System	Lecture, Lab, & Quiz	<b>Guest Speaker: Physical Therapist.</b>	<b>6 blocks</b>
	Nervous System Physiology*	Lecture, Lab, & Quiz		<b>3 blocks</b>
<b>EXAM 2</b>			<b>Quarter 2 Comprehensive Exam</b>	
<b>3<sup>rd</sup> Quarter</b>	Sensory System	Lecture, Lab, & Quiz	<b>Lab: Cow Eye Dissection</b>	<b>2 blocks</b>
	Endocrine System	Lecture, Lab, & Quiz		<b>6 blocks</b>
	Endocrine and Hormonal regulation physiology*	Lecture, Lab, & Test over endocrine system.	<b>Lab:</b>	<b>3 blocks</b>
	Cardiovascular System	Lecture, Lab, & Quiz	<b>Guest Speaker: Cardiologist.</b>	<b>5 blocks</b>
	Circulation Physiology*	Lecture, Lab, & Test over the parts of the heart.	<b>Lab: Pig Heart Dissection</b>	<b>2 blocks</b>
<b>EXAM 3</b>			<b>Quarter 3 Comprehensive Exam.</b>	
<b>4<sup>th</sup> Quarter</b>	Lymphatic System	Lecture, Lab, & Quiz	<b>Lab:</b>	<b>2 blocks</b>
	Blood & Defense Physiology*	Lecture, Lab, & Quiz		<b>2 blocks</b>
	Respiratory System	Lecture, Lab, & Quiz	<b>Guest Speaker: Respiratory Therapist</b>	<b>2 blocks</b>
	Respiration Physiology*	Lecture, Lab, & Quiz		<b>2 blocks</b>
	Digestive System	Lecture, Lab, & Quiz		<b>2 blocks</b>

	Digestive System Physiology*	Lecture, Lab, & Quiz		<b>2 blocks</b>
	Urinary System	Lecture, Lab, & Quiz	<i>Guest Speaker: Urologist</i>	<b>2 blocks</b>
	Kidney Physiology*	Lecture, Lab, & Quiz		<b>2 blocks</b>
	Reproductive System	Lecture, Lab, & Quiz		<b>2 blocks</b>
<b>EXAM 4</b>			<i>Quarter 4 Comprehensive Exam.</i>	

**13. Grading Policy:**

- a. Grades will be weighted based on the following categories:
  - i. **Labs/Activities/Projects: 40%**
  - ii. **Exams/Tests: 40%**
  - iii. **Homework/Quizzes/Portfolio: 20%**
- b. Absolutely no late work will be accepted past the assignment due dates, unless student is absent and they will be allowed two calendar days for each day absent to turn in missing work (see below). This is a VCS MS/HS policy.
- c. Students must pass class with a C or higher to receive credit for class. Please refer to the following grading scale: For both middle school and high school transcripts, grades are dependent on semesters, not quarters. Quarters are essentially a progress report grade for the semester. VCS will continue to give quarter grades, but the semester grades will be based on the entire points for the semester instead of an average of the two quarter grades.

**\*4.0 Scale  
Percentage Letter Scale**

Grade Value
100-98 A+ 4.0
97-94 A 4.0
93-90 A- 3.67
89-87 B+ 3.33
86-84 B 3.0
83-80 B- 2.67
79-77 C+ 2.33
76-74 C 2.0
73-70 C- 1.67
69-67 D+ 1.33
67-60 D 1.0
59-0 F 0.0

\*Student who are not taking class for college credit will be given the same assignments, but will be grading on a sliding grading scale of 10% (For example they would only need to get a 84%-86% to receive an A as opposed to the 94%-97% required for an A at the college level. We cannot skip any assignments due to the progressive nature of the class, but a student who is

taking class for High School credit only will not and should not be on the same grading scale as student taking it for college credit.

**14. Course Policies:**

- a. **Assignments:** all assignments are due at the beginning of the period on the assignment due date. Assignments must be completed in pencil or ink (if an assignment is turned in otherwise, it won't be accepted) and all questions must be answered in complete sentences. It is the student's responsibility to turn their assignment into the in-box during the first 5 minutes of class (unless we are grading the assignment in class that day). An assignment will be considered late, if it is turned in beyond this time.
- b. **Late Work:** Unexcused late work will NOT be accepted. Unexcused late work will be an automatic zero.
- c. **Make-up work (due to excused absences):** It is the student's responsibility to check their class folder and check with the teacher concerning any make-up work following an excused absence. This should be done before or after school, during nutrition break, or at the beginning of lunch. All labs and exams must be made up at school during a time scheduled by the teacher and the student. Students will have two calendar days for an excused absence to make up work. (For example, if a student is absent Thursday, they will request their make-up work on Friday and the work will be due Tuesday. It is the student's responsibility to request make-up work. For a pre-arranged absence, make-up work will be requested from the teacher before the absence. When a student has had an excused absence for three consecutive days, the parent may request make-up work be sent to the office for pick up. Requested work will be available the next school day by 3:30 pm. This should be done before or after school, during nutrition break, or at the beginning of lunch. All labs and exams must be made up at school during a time scheduled by the teacher and the student.
- d. **Attendance & Tardiness:** Students who miss more than 6 days during a semester will not receive credit for the class even if they held a passing grade prior to the absences (please refer to the VCS handbook for more detail). ***A student is considered tardy if they are not in their seat and started on their Science Journal when class begins.*** All bathroom and water breaks must be taken in between classes.

**15. Class Procedures/Guidelines:** The following guidelines will govern how we do things in my class.

- i. Respect your teacher, your classmates, the class environment, and yourself.
- ii. Do not talk while the teacher is talking or another student is sharing information with the class.
- iii. When I want your attention I will raise my hand. You will raise your hand, stop what you are doing, and put your eyes on me.
- iv. Don't compare yourself to others, do your best and take pride in your work.
- v. Have fun, but never at the expense of others.

**16. Consequences for not following classroom procedures:**

- a. First student will be warned privately.
- b. Second students will be removed from class for the day and will need to make up the time wasted either through extra physical activity or giving up their lunchtime for detention.

- c. Third, Students parents will be contacted and possible conference will be scheduled to come up with behavior plan.
- d. Fourth, Students will receive discipline referral (loss of school socials, zero for the day, and meeting with administrator) which might include community service hours or possible suspension.

\*This Syllabus is your roadmap for this school year, please print a copy and do not lose it. Your first assignment this year is to review the syllabus with your parent(s) or guardian and both parties need to sign stating that they understand and agree to the information presented here in the syllabus. Let's make this an amazing year. Please fill out the following information, sign, detach, and return to your student's teacher.

Please fill out information below, sign, detach, and return to your student's teacher

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Student Name: \_\_\_\_\_

Parent/Guardian Name: \_\_\_\_\_

Contact information: (phone) \_\_\_\_\_ (email) \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_ Date: \_\_\_\_\_