

NOUVEL CATHOLIC CENTRAL HIGH SCHOOL

HONORS ANATOMY AND PHYSIOLOGY

COURSE SYLLABUS

COURSE DESCRIPTION:	<p>This course is open to 11th and 12th grade students to explore how the human body is put together and how it works to keep us functioning. We will also be looking at how and why things can go wrong and what the consequences may be as a result. Some of the topics that will be covered (not necessarily in order) include:</p> <ul style="list-style-type: none">• Different types of tissues• Basic anatomical terminology• Skeletal system• Muscular system• Cardiovascular system• Nervous system• Digestion• Respiration• Diseases and abnormalities <p><i>Prerequisites: Successful completion of one year each of Biology and Chemistry with a "B" average.</i></p>
MAJOR COURSE GOALS:	<p>Upon successful completion of this course, the learner will:</p> <ol style="list-style-type: none">1. Be able to differentiate between types of tissues and their main components2. Be able to identify major muscles and their actions3. Be able to identify the bones in the skeletal system4. Understand the role of major organ systems in the healthy functioning of the human body5. Be able to explain how each organ system depends on and supports the others6. Understand how injury and disease affect the body and how the body works to heal itself
COURSE ASSESSMENT PLAN:	<ul style="list-style-type: none">• Daily work includes whole-class lecture and discussion, partner work on the Maniken™, and individual work/activities.• Formative assessments will be a combination of paper and pencil activities as well as internet-based activities, quizzes, and minor projects. Examples

	<p>include (but are not limited to) completing pages in the workbook, Edmodo quizzes, Education Portal activities, coloring sheets, Wordles, participation in online discussions, and completing study guides based on content delivered by YouTube, Khan Academy, and Educreations videos.</p> <ul style="list-style-type: none"> • Summative assessments include unit tests and internet-based projects. Examples include (but are not limited to) paper and pencil tests, Photojournals of structures built on the Maniken, and larger projects requiring students to use internet resources such as Windows Live Movie Maker, Audacity, Google Apps, and even Pinterest. • Word Ending Quizzes—Students will be given a packet of anatomy-related prefixes and suffixes that they will be tested on throughout the year. Quizzes will be on the first Friday of each month (with the exception of January, April, and June). • Approximately 60% of the grade is work on the Maniken and other homework and 40% of the grade is tests and quizzes. <ul style="list-style-type: none"> ○ <i>These percentages vary slightly from one marking period to the next.</i>
<p>SUPPLIES AND MATERIALS NEEDED:</p>	<ul style="list-style-type: none"> • General—Spiral notebook and pen (blue or black) or pencil for note-taking, folder, colored pencils (a set of 24 is ideal) • Texts—A classroom set of textbooks is kept in room 104 and students are welcome to check out a book at any time. • <i>Workbooks are required and will be provided to students once school starts.</i> • Phone or tablet with camera—Necessary for doing Photojournal project. Cell phone cameras take very nice pictures. Arrangements can be made for the student who does not have access to these items. • Access to internet resources—If a student has limited access to the internet, accommodations can be made to adapt or modify assignments which require it. It is the student’s responsibility to communicate with the instructor regarding this issue.
<p>EXTRA HELP AND CLASS COMMUNICATION:</p>	<ul style="list-style-type: none"> • Extra help is available before school (most days) and after school by appointment. Many questions can also be answered via email. If you need help with anything, do not wait until the last minute to seek it out! • At the beginning of the year students will be required to sign up for an Edmodo account. This will be the main mode of communication used to disseminate information to students regarding deadlines, required documents, and any other information or reminders students need. A

	<p>calendar with upcoming due dates and reminders will be maintained for the students' benefit. Students will also be able to communicate with the instructor as well as other students through Edmodo. Students will be expected to keep up with what is happening on Edmodo.</p>
INSTRUCTIONAL PHILOSOPHY:	<p>Every student learns in a different way, and every effort is made to make sure every student has an opportunity to operate within their comfort zone while still stretching and pushing the student to try new and different things. Flexibility is a critical skill for the student to learn. The goal for this course is to give each student a working understanding of how their body works. Many of the students are athletes, some of them are considering a health care profession, but all of them have a body. The more they know about how it works, the better.</p>
MAJOR COURSE PROJECTS AND INSTRUCTIONAL ACTIVITIES:	<p>Beginning in October, building structures on the Maniken™ is the daily instructional activity in this class. Students are to come prepared to work on their models every day. It is a very powerful learning tool for the student to see the Maniken™ “come to life” over the course of the year in all of its three-dimensional beauty and to know that he/she is the one who made it happen. <i>(Major course goals #2, 4, 5)</i></p> <p>Photojournals—As each system of the body is completed on the Manikens™, students will be required to take pictures of their model and create a visual record of their work. At the end of the year all the individual Photojournal pages will be put together in one collection. Each individual photojournal section will be the equivalent of a quiz grade, and the final collection will be assigned the equivalent of a test grade. <i>(Major course goals #4, 5)</i></p> <p>Final project—A research project may be assigned in the spring order to further the student's understanding of how a specific disease or disorder affects one of the systems of the body (and its interconnected systems) that we have studied. The final product produced will be in the form of a video or a podcast that will be shared with the class. <i>(Major course goals #2-6)</i></p>
CLASSROOM EXPECTATIONS:	<p>Everything that is expected of the student can be summed up in three simple statements:</p> <ol style="list-style-type: none"> 1. Be respectful of yourself and others. 2. Be respectful of any and all materials found in the classroom and in the possession of yourself or others. 3. Do as the teacher requests to the best of your ability. <p>Failure to abide by these guidelines will result in verbal reprimand, detention, or removal from class, depending on the severity and/or repetitive nature of the offense.</p>
HOMEWORK POLICY AND	<ul style="list-style-type: none"> • Grades are calculated based on a point system. In addition to homework, tests, quizzes, and projects, students will also be graded on the structures

GRADING SCALE:	<p>they build on their Maniken™. Letter grades will be determined using the scale set forth in the Student Handbook.</p> <ul style="list-style-type: none"> • Late work—Homework is expected to be turned in on time and be of high quality. Late work will be accepted at the teacher’s discretion with at least a 10% deduction in credit. • Academic Integrity—Students are expected to complete their own work and not copy from others in any way, shape, or form unless give permission or working on a group project. Students found to be involved in any such activity (both the person sharing the work and the person copying) will receive a zero for the assignment, an email will go home to the parents/guardians, and a disciplinary referral will be entered in Skyward. • Extra credit—Students will have an opportunity to earn a few extra points each quarter. The student is to find science news articles from a newspaper or a source such as www.sciencedaily.com and write a short summary of the article. The article and the summary must be turned in together for a maximum score of two points per article. The student may do more than one article per quarter as the total number of points allowed will vary by quarter. No magazine articles will be accepted.
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