

**NOUVEL HIGH SCHOOL**

**COURSE SYLLABUS Zoology**

<b>COURSE DESCRIPTION:</b>	<p>Zoology I involves the survey of the invertebrate animal kingdom with emphasis on the evolution, structure and function, habitat, and body systems. This course includes a deeper look into classification, porifera, cnidarians, platyhelminthes, nematodes, annelids, mollusks, arthropods, and echinoderms.</p> <p>Zoology II involves the survey of deuterostomes with emphasis on the evolution, structure and function, habitat, and body systems. In each unit, the class will not only study overall characteristics of representative animals but an in-depth study of organ systems will take place with dissections. This course includes a deeper look into echinoderms and chordates more specifically fish, amphibians, reptiles, aves, and mammals.</p> <p>Emphasis is placed on explanation, description, analysis, dissections, presentations, and laboratory study. Skills in observation, dissection, photo journals and the use of the microscope are developed throughout the course.</p>
<b>MAJOR COURSE GOALS:</b>	<p>At the end of the semester long course students should be able to:</p> <ol style="list-style-type: none"><li>1. Identify structures, functions, and related systems of specimen from each phylum</li><li>2. Analyze the anatomy, physiology, reproduction, evolution, and the relationships of invertebrates &amp; vertebrates with their environment.</li><li>3. Classify invertebrate and vertebrate organisms using taxonomy.</li><li>4. Properly dissect and analyze specimen from each of 9 phylums</li><li>5. Examine vertebrate organ systems as they relate to each phylum</li><li>6. Examine the relationships between organisms using cladistics and phylogeny.</li></ol> <p>Course goals will allow students to prepare for college level zoology and animal science courses and careers in the future.</p>
<b>COURSE ASSESSMENT PLAN:</b>	Tests, quizzes, specimen dissection, photo journals, participation, class work, homework

<p><b>SUPPLIES AND MATERIALS NEEDED:</b></p>	<p>1 ½ Binder with loose leaf paper  10 Dividers – 1 for each unit  Colored pencils  Highlighters for notes  Art Supplies: poster board, colored markers, etc. to be kept at home</p>
<p><b>EXTRA HELP:</b></p>	<p>Available before and after school for questions and assistance with the course if necessary. Also available through e-mail at any time.</p>
<p><b>INSTRUCTIONAL PHILOSOPHY:</b></p>	<p>For every unit there will be a combination of lectures, live observation laboratories, specimen dissections, photo journal assignments, quizzes, exams. Research for a formal laboratory report will accompany the unit on Platyhelminthes. Students will be asked to work independently and in groups during dissections.</p>
<p><b>MAJOR COURSE PROJECTS AND INSTRUCTIONAL ACTIVITIES:</b></p>	<p>Overview of the Units &amp; major dissection:  -CLASSIFICATION AND SIX KINGDOM OVERVIEW  -WHAT IS AN ANIMAL?  - PORIFERA - Sponges  - CNIDERIANS - Jellies  - PLATYHELMINTHES - Flatworms (planarians)  - NEMATODA - Roundworms  - ANNELIDA - segmented worms (Earthworm)  - MOLLUSCA - Gastropods, bivalves, cephalopods  - ARTHROPODA - Insects, crustaceans  - ECHINODERMS - Sea Stars  - INTRODUCTION TO CHORDATES  - FISH - Jawless &amp; Jawed (Perch)  - AMPHIBIANS - Frog  - REPTILES - Lizard  - AVES- Owl Pellet  - MAMMALS - Fetal pig</p>
<p><b>CLASSROOM EXPECTATIONS:</b></p>	<p>- Rules as stated in the student handbook will be adhered to.</p> <p>PLEASE BE AWARE OF THE FOLLOWING ACCORDING TO THE PARENT/STUDENT HANDBOOK:  “More than 10 absences (excused/unexcused) during a semester from any class/classes will result in the failure to receive credit for the class/classes missed. In case of a medical condition/extended illness, a written document by a physician must be provided upon returning to school. The doctor’s note must contain all the dates of absence(s) and</p>

	the return to school date to be considered.
<b>HOMEWORK POLICY AND GRADING SCALE:</b>	<p>Your grade will be comprised of the following:</p> <p>1) Exams 60%</p> <p style="padding-left: 20px;">a. Tests/Quizzes</p> <p style="padding-left: 20px;">b. Projects</p> <p>2) Class Work 40%</p> <p style="padding-left: 20px;">a. Assignments</p> <p style="padding-left: 20px;">b. Laboratory Experiment</p> <p style="padding-left: 20px;">c. Homework</p> <p>98 – 100 = A+    87 – 89 = B+    77 – 79 = C+    67 – 69 = D+</p> <p>93 – 97 = A      83 – 86 = B      73 – 76 = C      63 – 66 = D</p> <p>90 – 92 = A-    80 – 82 = B-    70 – 72 = C-    60 – 62 = D-</p> <p style="text-align: right;">0 - 59 = F</p>
<b>CONTACT INFORMATION:</b>	
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