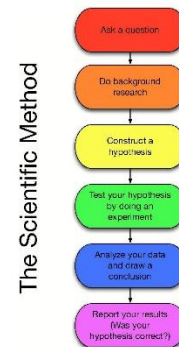


Syllabus for Biology De Leon High School

Instructor: Jeffrey Roemisch
Email: jroemisch@deleonisd.net
Phone: 325-642-5778



Course Description:

-Biology is the study of all living things. It is a lab-oriented course which emphasizes structure and function, growth and development, cells, tissues and organs, nucleic acids and genetics, biological evolution, taxonomy, and the relationships between living things and the environment. You will have a link in google classroom to my schoology Biology class page (classwork, exams, etc. will be here). We will also have a new site- MINDTAP from National Geographic along with our new book.

This is a 2-semester class and the areas we will cover include the following:

Below is a general guideline of the Year and order we will follow. This possibly could have minor changes or adjustments.

1st 6-weeks 8/13 → 9/18 - Class procedures & Safety contracts 2 days - BOY 2 days - Review microscopes & Scientific method 4 days - Ecology & Ecological Systems 12 days - Basic Chemistry Bio Chem & Bonding 6 days Days needed 26 Days available 26 Balance 0	4th 6-weeks 1/6 → 2/10 - Genetics & Heredity 10 days - Evolution 8 days - Classification 6 days Days needed 24 Days available 24 Balance 0
2nd 6-weeks 9/22 → 10/30 - Biochemistry --continued 8 days - Cells and cell structure 11 days - Cellular processes—photo/respiration 6 days Days needed 25 Days available 27 Balance +2	5th 6-weeks 2/16 → 4/2 - Viruses & Bacteria 8 days - Protists 2 days - Plant Structures & Adaptations 7 days - Animal Structures & Adaptations 7 days Days needed 24 Days available 28 Balance +4
3rd 6-weeks 11/2 → 12/18 - Cellular processes—photo/respiration 3 days - Cellular processes—cell cycle 10 days - Cellular Processes Protein Synthesis 11 days - MOY 2 days Days needed 26 Days available 30 Balance +4	6th 6-weeks 4/5 → 5/19 - Animal Body Systems 6 days - Human Body Systems 7 days - Making Connections 1 day - EOY 2 days - Animal Dissection 10 days Days needed 26 Days available 31 Balance +5

CLASS MATERIAL: Students and parents must realize that this course is about Biology and that some topics, pictures and diagrams presented in the textbook and in class may be considered sensitive and/or graphic. Students in this class are expected to act maturely in dealing with such material. Dissection will be used as a teaching tool in Biology, and you will be notified ahead of time to facilitate bringing close-toed shoes and cover clothing if needed.

ASSIGNMENTS: Assignments are to be completed by the beginning of the class period on the due date. I will not accept late work! The majority of homework will be based on a 100-point scale.

ANSWERS: Answers on homework, quizzes, tests, labs, etc. must be thorough and completely answer the question before credit will be given. Numerical answers must always contain at least 2 places after the decimal. You are expected to show all work on any assigned problems. Correct spelling will be required in order for students to receive credit for answers.

TESTS: Tests will be thorough and if you wait until the end of the unit to begin studying, you will not accomplish all you are capable of doing. I will usually give you a week's notice before a test and we will often have a review session during Study Hall or class time the day before the test. Tests may be graded on a "curve" to the highest score but don't count on that every time. You will be allowed to use your calculator on a test, but you may not share calculators with a neighbor!

QUIZZES: Quizzes may be a 100-point scale and may be announced OR unannounced.

LABS: Labs are designed to provide you with an opportunity to apply what you have learned in class. You are required to always follow laboratory rules. Failure to do so may result in the loss of lab privileges. Lab work is usually completed in pairs.

Grades: Middle School and Secondary Grading Guidelines

Each campus or instructional level develops guidelines for teachers to follow in determining grades for students. These guidelines shall ensure that grading reflects a student's relative mastery of an assignment and that a sufficient number of grades are taken to support the grade average assigned.

The teacher may record a maximum number of assessments equal to or less than the total number of days per grading period, with a required minimum of 10 assessments per grading period for all content areas. The minimum assignments for all courses must consist of the following:

	Math / English History /Science	Career & Technology	Elective
Minimum Number of Assessments	10	10	10
Minimum Number of Major Assessments	2	2	2
Minimum Number of Daily Assessments	8	8	8
Percent of overall grade - Major Assessments	40%	40%	40%
Percent of overall grade - Daily Assessments	60%	60%	60%
Minimum Number of Major Assessments per 3 weeks	1	1	1
Minimum Number of Daily Assessments per 1 week	1	1	1

1. Assignments will be graded, and the grades posted in Ascender within a professional window of 3 school days after the assignment's due date. Teachers will strive to have a minimum of one daily assessment entered into Ascender each week AND a major assessment entered every three-week reporting period.
2. The teacher will provide an opportunity for a student that did not show mastery of a taught concept on an assignment/assessment to correct or retake an assessment (below a 70). (EIA LOCAL) The original assignment must have been completed and the reteach opportunity must be completed within the same unit of instruction.
3. If a student has three or more incomplete assignments OR has a failing grade for multiple weeks, the teachers will contact parents via phone to discuss the individual situation AND the student may be assigned morning tutorials.
4. Any dual credit or course taken with another academic institution may not follow these guidelines.
5. The district utilizes the web-based online grading system Ascender. This system allows parents and students to access grades and attendance at their own convenience. It is imperative for the learning process that grades be posted into the system within 3 school days of the assignment due date AND the student is provided feedback.

There will be at least 8 daily/lab/quiz grades and 2 major exams per six weeks. A major grade could be a project, Exam, or written lab explanation (report)

ATTENDANCE: You will make arrangements for missed work according to the school policy. I accept little responsibility for work that you have missed. You will be responsible for all make-up work.

Secondary Make-up Work When a student has an excused absence, the teacher will provide time for the student to complete the missed assignments. This time would not be allowed to occur while in regular instruction time. Teachers may only utilize recess time, early morning between 7:30-7:55, and after school times between 3:30-4:00 to complete any make-up work. Since there is no other time for make-up work to occur, it is the parent's responsibility to drop off students early and pick them up late if necessary. **A student will have three school days upon returning from an absence to complete the work. If a student is absent consecutive days, one additional day will be added to the three days per absence.** Any make-up work not completed in the allotted time will be graded as is. It is the student's responsibility to utilize these opportunities to complete the assignments in the time allotted. Missed assignments from unexcused absences will be considered based upon individual situations.

When you return from an absence you should:

- 1) Check with me about missed work.
- 2) Ask someone in class for notes you might have missed.
- 3) Obtain materials that may have been handed out from me.
- 4) Make arrangements to make up quizzes, tests or labs outside of class. (tutorials is great)

OUTSIDE HELP: If you need extra help, I will be available in my room during my conference, you may also send an email or send a remind message. If you are an at-home/online learner you may send an email or send an email message, and/or you may setup a zoom meeting. A form is available in my Google classroom to request a Zoom meeting. Fill in that form and request a call for a specific time (times available are listed on the form) and we can connect and get the help you may need from me. Help may also be obtained at the websites given to you on my Biology Google classroom site.

BRING TO CLASS: Be sure to bring the following to class every day, failure to do so may result in loss of points: Writing utensil, paper (provided by DHS), calculator (if desired) completed homework, and a good attitude. Graphing or programmable calculators are permitted.



Syllabus for Anatomy & Physiology
De Leon High School
Coach Roemisch, Instructor
Cell: (325)642-5778
jroemisch@deleonisd.net

Anatomy is the study of the location, appearances and relationships of body parts while physiology explains the mechanisms that operate body activities. Anatomy & Physiology is a course in which students will spend a great deal of time memorizing body parts and functions. Many of the class activities will be geared to help facilitate this type of learning. Students will be expected to read the textbook and be willing to work both inside and outside of class on assignments. My Google classroom page will have all your assignments and resources listed on your class page.

This is a 2-semester class and the areas we will cover include:

1. Body Organization
2. Intro to Biochemistry
3. Cells
4. Genetics
5. Tissues
6. Integumentary System
7. Skeletal System
8. Muscular System
9. Nervous System
10. Endocrine System
11. Cardiovascular System
12. Lymphatic System
13. Respiratory System
14. Digestive System
15. Urinary System
16. Reproductive System

CLASS MATERIAL: Students and parents must realize that this course is about Human Anatomy and that some topics, pictures and diagrams presented in the textbook and in class may be considered sensitive and/or graphic. Students in this class are expected to act maturely in dealing with such material. Dissection will be used as a teaching tool in Human Anatomy, and you will be notified ahead of time to facilitate bringing close-toed shoes and cover clothing if needed.

ASSIGNMENTS: Assignments are to be completed by the beginning of the class period on the due date. I will not accept late work! The majority of homework will be based on a 100-point scale.

ANSWERS: Answers on homework, quizzes, tests, labs, etc. must be thorough and completely answer the question before credit will be given. Numerical answers must always contain at least 2 places after the decimal. You are expected to show all work on any assigned problems. Correct spelling will be required in order for students to receive credit for answers.

TESTS: Tests will be thorough and if you wait until the end of the unit to begin studying, you will not accomplish all you are capable of doing. I will usually give you a week's notice before a test and we will often have a review session during Study Hall the day before the test. Tests may be graded on a "curve" to the highest score. You will be allowed to use your calculator on a test, but you may not share calculators with a neighbor!

QUIZZES: Quizzes may be a 100-point scale and may be announced OR unannounced.

LABS: Labs are designed to provide you with an opportunity to apply what you have learned in class. You are required to follow laboratory rules at all times. Failure to do so may result in the loss of lab privileges. Lab work is usually completed in pairs.

Grades: Middle School and Secondary Grading Guidelines

Each campus or instructional level develops guidelines for teachers to follow in determining grades for students. These guidelines shall ensure that grading reflects a student's relative mastery of an assignment and that a sufficient number of grades are taken to support the grade average assigned.

The teacher may record a maximum number of assessments equal to or less than the total number of days per grading period, with a required minimum of 10 assessments per grading period for all content areas. The minimum assignments for all courses must consist of the following:

	Math / English History /Science	Career & Technology	Elective
Minimum Number of Assessments	10	10	10
Minimum Number of Major Assessments	2	2	2
Minimum Number of Daily Assessments	8	8	8
Percent of overall grade - Major Assessments	40%	40%	40%
Percent of overall grade - Daily Assessments	60%	60%	60%
Minimum Number of Major Assessments per 3 weeks	1	1	1
Minimum Number of Daily Assessments per 1 week	1	1	1

--

1. Assignments will be graded, and the grades posted in Ascender within a professional window of 3 school days after the assignment's due date. Teachers will strive to have a minimum of one daily assessment entered into Ascender each week AND a major assessment entered every three-week reporting period.
2. The teacher will provide an opportunity for a student that did not show mastery of a taught concept on an assignment/assessment to correct or retake an assessment (below a 70). (EIA LOCAL) The original assignment must have been completed and the reteach opportunity must be completed within the same unit of instruction.
3. If a student has three or more incomplete assignments OR has a failing grade for multiple weeks, the teachers will contact parents via phone to discuss the individual situation AND the student may be assign morning tutorials.
4. Any dual credit or course taken with another academic institution may not follow these guidelines.
5. The district utilizes the web-based online grading system Ascender. This system allows parents and students to access grades and attendance at their own convenience. It is imperative for the learning process that grades be posted into the system within 3 school days of the assignment due date AND the student is provided feedback.

There will be at least 8 daily/lab/quiz grades and 2 major exams per six weeks. A major grade could be a project, Exam, or written lab explanation (report)

ATTENDANCE: You will need to make arrangements for missed work according to the school policy. I accept little responsibility for work that you have missed. You will be responsible for all make-up work.

When you return from an absence you should:

- 1) Check the assignment board for missed work.
- 2) Ask someone in class for notes you might have missed.
- 3) Obtain materials that may have been handed out from me.
- 4) Make arrangements to make up quizzes, tests or labs with me outside of class. (tutorial period works great)

OUTSIDE HELP: If you need extra help, I will be available in my room during my conference, you may also send an email or send a remind message. If you are an at-home/online learner you may send an email or send a remind message, and/or you may setup a zoom meeting. A form is available in my Google classroom to request a Zoom Meeting. Fill in that form and request a call for a specific time (times available are listed on the form) and we can connect and get the help you may need from me. Help may also be obtained at the websites given to you on my Human Anatomy schoology site.

BRING TO CLASS: Be sure to bring the following to class everyday, failure to do so may result in loss of points: Writing utensil, paper (DHS supplies these) calculator, completed homework, colored pencils and a good attitude. This class requires a set of colored pencils (minimum of 24). If you cannot afford these, please see me. Graphing or programmable calculators are permitted.

Master Course Syllabus

Course Information

- **Course Title:** Nursing Practicum
- **Course Tracks Available:** Certified Clinical Medical Assistant (CCMA) **OR** Patient Care Technician (PCT)
- **Schedule:** Daily 2-Period Block (90 Minutes Total / Two 45-Minute Periods)
- **Location:** DHS Health Science Classroom (Block 1: Theory & NHA Modules) & Health Science Lab (Block 2: Live Skills)
- **Curriculum Platform:** NHA (National Healthcareer Association) Interactive Online Learning & Practice Materials

Course Description

The Nursing Practicum offers high-level healthcare students a choice between two specialized industry certification pathways: **Certified Clinical Medical Assistant (CCMA)** or **Patient Care Technician (PCT)**. Utilizing a hybrid instructional model, students dedicate the first 45-minute block to NHA interactive theory modules, virtual scenario practice, and knowledge assessments. The second 45-minute block takes place in the Health Science Lab, where students perform live clinical skills, complete competency check-offs, and master direct patient care procedures in a simulated clinical setting.

Course Objectives

Upon completion of this course, students in both tracks will be able to:

1. Demonstrate legal, ethical, and therapeutic communication within an interprofessional healthcare team.
2. Maintain rigorous infection control standards, personal protective equipment (PPE) protocols, and patient safety guidelines.
3. Master core and advanced clinical skills specific to their selected NHA certification track (CCMA outpatient clinical workflows or PCT acute/inpatient patient care).
4. Perform accurate electronic and paper clinical documentation.
5. Successfully sit for the NHA CCMA or NHA PCT National Certification Examination.

Daily 2-Period Block Structure (90 Minutes)

Period	Time	Focus	Activities
Block 1	45 Mins	NHA Digital Theory & Content Mastery	Interactive NHA modules, reading assignments, practice questions, dosage/math calculations, and module quizzes.

Block 2	45 Mins	Health Science Lab & Skill Application	Instructor demonstrations, peer-to-peer skill practice, mannequin simulations, and formal clinical skill check-offs.
----------------	---------	---	--

Track 1 Curriculum: Certified Clinical Medical Assistant (CCMA)

Module	Focus Area	Block 1: NHA Theory & Concepts	Block 2: Health Science Lab Skills
Module 1	Clinical Communication	Therapeutic communication, HIPAA, active listening, patient coaching, overcoming barriers.	Intake interviews, medical history taking, telehealth simulation roleplay.
Module 2	Infection Control	Chain of infection, OSHA regulations, bloodborne pathogens, aseptic standards.	Hand hygiene evaluation, donning/doffing PPE, autoclave operation, sanitization.
Module 3	Vital Signs & Body Measurements	Baseline norms across lifespan, pulse/BP mechanics, anthropometric standard values.	Manual BP calibration, radial/apical pulse, height/weight/BMI, infant length measurement.

Module 4	Eye & Ear Procedures	Ophthalmic & otic anatomy, vision screening standards, ear irrigation safety protocols.	Snellen/Ishihara vision charts, eye/ear instillation, otic lavage simulation.
Module 5	Minor Surgical Tasks	Surgical asepsis, sterile fields, instrument identification, wound care protocol.	Opening sterile packs, sterile gloving, suture/staple removal, assisting in minor procedures.
Module 6	Pediatric Procedures	Developmental milestones, pediatric vital norms, immunization schedules.	Pediatric restraint techniques, growth chart plotting, pediatric vital collection.
Module 7	Cardiac & Respiratory Procedures	Cardiac conduction system, 12-lead ECG, lead placement, spirometry standards.	12-lead ECG placement & tracing, artifact troubleshooting, peak flow meter testing.
Module 8	OB/GYN Procedures	Female reproductive health, prenatal checkup routines, gynecological test prep.	Exam room prep/draping, Pap smear tray setup, lithotomy positioning assistance.
Module 9	Phlebotomy & Related Training	Hematology, order of draw, equipment selection, venipuncture & capillary principles.	Multi-tube venipuncture (mannequin arms), capillary finger/heel sticks, tube inversion.

Module 10	Urine Collection & Analysis	Renal physiology, clean-catch/24-hour protocols, physical/chemical urine properties.	Urine dipstick reagent strip testing, refractometer specific gravity testing, chain of custody.
Module 11	Laboratory Tests	CLIA-waived testing rules, specimen processing, point-of-care quality controls.	Rapid strep testing, glucometer testing, centrifuge operation & specimen preparation.
Module 12	Pharmacology	Routes of administration, rights of meds, dosage calculations, drug classifications.	Syringe preparation/air bubble removal, IM/SubQ/ID injection technique on practice pads.

Track 2 Curriculum: Patient Care Technician (PCT)

Module	Focus Area	Block 1: NHA Theory & Concepts	Block 2: Health Science Lab Skills
Module 1	Introduction to PCT Role	Scope of practice, healthcare team hierarchy, inpatient care settings.	Orientation to lab equipment, hospital bed operation, clinical workflow setup.
Module 2	Policies and Procedures	Standard operating procedures, incident reporting, emergency responses.	Mock fire/safety drills, incident report documentation, code response simulations.

Module 3	Ethics: Patient's Rights	Patient Bill of Rights, informed consent, confidentiality, mandatory reporting.	Roleplay patient rights scenarios, handling ethical dilemmas in patient care.
Module 4	Patient Safety and Quality	Fall prevention, body mechanics, restraint policies, infection safety.	Patient transfer mechanics, gait belt usage, restraint application & safety checks.
Module 5	Documentation & Record Keeping	EHR entry, medical terminology, charting intake/output, SBAR reporting.	Electronic/paper charting drills, shift handover reports, intake/output logging.
Module 6	Clinical Skills 1: Hygiene & ADLs	Activities of Daily Living (ADLs), skin integrity, bed bath procedures.	Bed baths, oral care (conscious/unconscious), occupied/unoccupied bed making.
Module 7	Clinical Skills 2: Mobility & Positioning	Range of Motion (ROM), body alignment, pressure ulcer prevention.	Passive/Active ROM exercises, patient turning/repositioning schedule execution.
Module 8	Clinical Skills 3: Vital Signs & Monitoring	Temperature, pulse, respiration, BP monitoring in acute care settings.	Automated and manual vital signs, continuous pulse oximetry monitoring.
Module 9	Clinical Skills 4: Nutrition & Elimination	Feeding assistance, dysphagia precautions, catheter care, ostomy basics.	Assisted feeding protocols, urinary catheter bag emptying/measuring, ostomy care.

Module 10	Advanced Clinical Skills	Phlebotomy, 12-lead ECG placement, wound dressing changes, IV removal.	Live 12-lead ECGs, venipuncture technique, sterile dry dressing changes, peripheral IV removal.
Module 11	Communication & Interprofessional	Team dynamics, communicating with nurses/physicians, conflict resolution.	SBAR oral handoff reporting, mock physician/nurse communication calls.
Module 12	Communication & Collaboration	De-escalation tactics, family interactions, special needs care.	De-escalation roleplay, supporting anxious or confused patients/families.
Module 13	Professional Engagement	Professionalism, career readiness, NHA exam prep strategies, resume building.	Mock interviews, NHA practice test review, practical lab exit exam check-offs.

Grading & Evaluation

NHA Module Knowledge Checks & Quizzes : 75 %

Health Science Lab Skill Check-offs : 25%

***Professionalism & 8 Shadowing hours must be completed for course credit!**

Health Science Lab Policies & Expectations & Shadowing Attire.

1. **Required Attire:** Approved clinical scrubs, closed-toe non-porous shoes, and hair pulled back above the collar are mandatory for Block 2 lab sessions.
2. **Safety & Compliance:** OSHA guidelines, universal precautions, and strict needle/sharps safety protocols must be followed at all times.
3. **Skill Mastery Threshold:** Students must score 80% or higher on each live clinical skill check-off to meet certification prerequisites. Remediation is required for non-passing attempts.