

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher:

Mrs. Williams

Email:

pwilliams@madisoncity.k12.al.us

Phone:

256-216-5313 ext. 95215

Goal This year= Value and Self Efficacy

Motto: 2

A. One Minute Lost Can Never Be Regained!

B. EQ (Maturity- How One Behaves) is just as important as IQ (Intelligence)!

Google Classroom Codes:

Block 1=x2lhxji

Block 2=nktuuii

Block 3=jPyalc4

I. **Course Description:**

Standard biology and **Pre-AP biology** promote scientific literacy. Organisms are studied from their structural, behavioral, ecological, hereditary and evolutionary perspectives. An inquiry-based approach to understanding biological processes is emphasized. Students will engage in 3-Dimensional Learning coupled with the use of technology to explore the relevance of biology. A general definition of 3-D learning can be defined as students using techniques, which are specific in understanding the following: biological terminology, logical connections, problem solving, planning and carrying out appropriate laboratory investigations, and interpreting results. The goal is that three- Dimensional Learning promotes high quality learning.

This biology course requires a discipline for weekly independent reading, studying (outside of class), and collaboration with peers for group work; therefore, allow me to introduce the **Concept of Struggle (COS)**. Students are transitioning from middle school to high school, and may need the extra help to cycle through a different set of learning standards. **I call it the freshmen learning curve**; furthermore, because high school classes are more rigorous than that of middle school, students may struggle to grasp in depth concepts. This means that students may struggle as they encounter more homework, more research, more time for effective collaboration, more independent research, and a plethora of other learning strategies to help them become more successful learners. It is expected that students grasps the idea that high school standards are like middle school in terms of student achievement; however, there is more required in terms of student learning. Parents, it is my goal to help our students around this learning curve, and I do believe that we can work together to help our child or children succeed as we prepare them for the next level of academia. So, if a child **cries** that something is too hard, or too difficult, **let's let them work through this natural cycle of life. This implies that If your child struggles with a concept, then he or she should come to class the next day with meaningful questions during class time and, they should attend weekly tutoring to leverage their level of understanding.** After all, we have to

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

help them “go figure” with guided assistance until they become **adapted and comfortable with high school level learning.**

Parents: Students may struggle slightly with this class due to the high volumes of weekly vocabulary, homework, assessments, labs, skill building and other activities; therefore, let's work together to overcome the COS.

- ✓ **A laptop is strongly encouraged!!!!!!!!!!!!!!!!!!!!!!**
- ✓ **A phone cannot be substituted for a digital device!!!**

II. Course Objectives:

General Objectives:

1. Biology students will use technology, mathematics, and writing skills to explore, support, and reject biological outcomes.
2. Use mathematics to measure, analyze and understand the precision of data.
3. Students will use a variety of classroom strategies to understand and apply information. One of the main strategies we will use for understanding and applying knowledge is to become a Subject Matter Expert (SME) as a futuristic thinking. This includes learning how to:
 - a. Develop a basic understanding of the concept by defining, researching, reading, writing, and applying mathematics.
 - b. Comparing and contrasting concepts
 - c. Creating metaphors to make connections by construction VoPiX.
 - d. Testing and modeling concepts by experimental design.
 - e. Applying futuristic solutions to problematics
4. Biology students will describe the steps of the scientific method by comparing controls, dependent and independent variables; using appropriate SI units for measuring length, volume and mass.
5. Biology students will identify safe laboratory procedures when handling chemicals and using appropriate laboratory tools.
6. Use 3-Dimensional Learning as a tool for successful learning.

Alabama Course of Study Objective:

A. From Molecules to Organisms:

1. Use models to compare and contrast how the structural characteristics of carbohydrates, nucleic acids, proteins, and lipids define their function in organisms.
2. Obtain, evaluate, and communicate information to describe the function and diversity of organelles and structures in various types of cells.
3. Formulate an evidence-based explanations regarding how the composition of deoxyribonucleic acid (DNA) determines the structural organization of proteins.
4. Develop and use models to explain the role of the cell cycle during growth and maintenance in multicellular organisms (e.g., normal growth/and or uncontrolled growth resulting from tumors).
5. Plan and carry out investigations to explain feedback mechanisms (e.g., sweating and shivering) and cellular processes (e.g., active and passive transport) that maintain homeostasis.

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us
Phone: 256-216-5313 ext. 95215

6. Analyze and interpret data from investigations to explain the role of products and reactants of photosynthesis and cellular respiration in the cycling of matter and the flow of energy.

B. Ecosystems:

7. Develop and use models to illustrate examples of ecological hierarchy levels, including biosphere, biome, ecosystem, community, population, and organism.
8. Develop and use models to describe the cycling of matter (e.g., carbon, nitrogen, water) and flow of energy (e.g., food chains, food webs, biomass pyramids, ten percent law) between abiotic and biotic factors in ecosystems.
9. Use mathematical comparisons and visual representation to support or refute explanations of factors that affect populations growth (e.g., exponential, linear, logistic).
10. Construct an explanation and design a real-world solution to address changing conditions and ecological succession caused by density-dependent and/or density-independent factors.

C. Heredity:

11. Analyze and interpret data collected from probability calculations to explain the variation of expressed traits in a population.
12. Develop and use a model to analyze the structure of chromosomes and how new genetic combinations occur through the process of meiosis.

D. Unity and Diversity:

13. Obtain, evaluate, and communicate information to explain how organisms are classified by physical characteristics organized into levels of taxonomy, and identified by binomial nomenclature (e.g., taxonomic classification, dichotomous keys).
14. Analyze and interpret data to evaluate adaptations resulting from natural and artificial selection that may cause changes in populations over time (e.g., antibiotic-resistant bacteria, beak types, peppered moths, pest-resistant crops).
15. Engage in argument from evidence (e.g., mathematical models such as distribution graphs) to explain how the diversity of organisms is affected by overpopulation of species, variation due to genetic mutations, and competition for limited resources.
16. Analyze scientific evidence (e.g., DNA, fossil records, cladograms, biogeography) to support hypotheses of common ancestry and biological evolution.

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

Basic Classroom Expectations:

III. Classroom Expectations:

- Be on time**, and be prepared! Be in your seats before the sound of the bell, and immediately start working on your "Appetizer-Before" activity (Appetizer). **Stay engaged in class. No talking during this time.** ! Student engagement participation grades will be given during this time. **There's absolutely no exceptions!**
- Sign into Google Classroom Daily and become aware of the daily lessons.
- Place your cell phone in a provided brown paper bag; folded down before starting on the appetizer.**
- Bring paper, pens, mechanical pencils, 3-ring binder, and any assignment and homework to class daily.
- Do not** enter into the lab or storage closets without permission.
- Do not** pull alarms, or water sprinkler systems without permission.
- No sleeping, fighting**, or horse playing in class. **Stay actively engaged!** Student engagement participation grades will be given during this time. No talking while I'm talking! No loud outburst in class. No arguing with the instructor.
- Absolutely no use of profanity.
- Consequences: 1.Warning 2. Parent Phone Call 3. Referral**
- Keep a positive spin on everything. Be polite, courteous and kind to others. Don't be defiant. Respect those in authority including the substitute.**
- Ask permission** before doing anything.
- Observe good housekeeping practices.** Work areas should be kept clean and tidy at all times. You may have to clean your area after school.
- Do not** damage tables or desk by writing on them. If students are found writing on the desk, they will clean desk for Mrs. Williams.
- During class, when there is a signal to transition from one activity to the next, students must remain quiet.
- Do not stop working until the bell sounds!** We learn from **bell to bell**. Thirty seconds before the sound of the bell sounds pack up. When the bells sounds, then stand up and leave. No standing at the doors before the bell sounds.
- Bathroom Pass-** Students get three bathroom passes a semester. Don't ask to go to the bathroom during the first 10 or the last 10 minutes of class, and if you are in my 3rd block, use the bathroom during refuel. Emergency passes will be allowed.

17. Recognizing codes in Inow

Code	Acronym Meaning
CSB	Concept Skill Building- Building Concepts
VSB	Vocabulary Skill Building-Developing vocabulary either by T-charting or by VoPiXing
LaSB	Laboratory Skill Building- Running Experiments
DSS	Data Set Standards-Following itemized laboratory standards
SRP	Self-Reflective Pieces- Goal Setting, Meeting Goals, Running Interference, Plan of Action and Overall Impact from Learning Concept
SEL	Student Engagement Level- Students will receive participation points during this time. Participation is the art of remaining engaged in all activities at all times.
BPI	What are the big picture ideas relative to the learning target!
T3-LP	Triple 3 LP- Pre-Lab activities- Preparing for the labs! Requires research in three different sections of the lab protocol.
SME	Subject Matter Expert- You essentially learn how to become an expert on a concept by determining the Big Picture Idea (BPI),

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

	researching, internalizing information, comparing and contrasting, learning relative vocabulary relating your BPI to real life settings, and developing essential questions.
JA	Jet Accelerated homework activity! Connecting Concepts to what we are currently learning. These concepts to be researched and learned independently may be in chapters way ahead (If we are studying chapter 2, the JA may stem from chapter 20.)
IR-Pre-AP	Independent Research; meaning that students will have to Research main ideas and substantiate the main idea (BPI) with supporting details. Pre-AP students may have to read up from 3 to 7 sections nightly to prepare for class.

Concerning the use of laptops:

1. Student laptops should not be hard wired to the network or have print capabilities.
2. The use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers.
3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops.
4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

IV. Grading Policy:

1. **Cell Phones- must be placed in a brown paper sandwich bag, placed on tables, labeled with the student's name on it, and folded down several times. Absolutely no use of cell phones during class time, unless given permission. Students will be given a violation ticket for detention during refuel for any exposed phone. If the child continues to violate this rule, a written report to an administrator will be given.**
2. Test and quiz grades will account for **70%**.
3. Daily grades will account for **30%** including homework, class participation (SME research, development, and presentations) laboratory activities, and extended assignments. Make sure all absences are excused as class work can be made up and graded for excused absences only.
4. **If you know that you are checking out or will not be present at school, please let me know ahead of time especially if we are taking a test. Never get started with a test and know that you only have 10 to 15 minutes to work on it. If you do this, you will have to start on a new test on different day.**
5. The real function of a student in a classroom is to **stay in engaged**, and to answer what the meaning is to a skill, lab, or concept in a class.
6. **Writing notes are absolutely mandatory.** I will provide online PowerPoints and videos links for you to watch. Concepts from the book, that are mandatory to know, I will prompt you to write the material down to study. You will be creating your own notes, and study guide for you to study, so please pay attention, remain engaged, and focus.

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

7. **Project grades** are test grades and could count up to 100 point test grades.
8. The final exam grade will account for 20% of your final grade.
9. Any incomplete assignment or project will receive an automatic 50%. **This means if you miss two or more questions, it is an automatic 50%.**
10. Any student who does not complete any assignment will complete a **zero note** stating the reason why he or she did not complete it.
11. Students are expected to go out in our Natural Occurring Ecosystem (Outdoor Classroom or the ODC.) to allow for scientific observations, experimentation, and data collection. Parents, it is mandatory that you sign a permission form allowing your child to do so. A form will be uploaded to Google for you to print sign and return to me. A grade will be assessed.

V. **Make-up Test Policy and Other:**

1. Test opportunities are planned once a **unit** is complete. They can be expected bi-weekly, including subject matter, vocabulary and laboratory performance test. If you are absent only one day prior to a test, you are expected to take your test when you return.
2. Quizzes- One time **weekly**. **Quizzes are based on nightly reading.**
3. **Make-Up Test day and Time- 1st and 2nd Wednesdays of the Month.** During Refuel! Be on time. Show up @ 11:30 AM.
4. Any student who misses a make-up test will be given an additional opportunity to re-schedule and make up the test. If the student is a **no-show again, for any reason, the test grade will become a zero.**
5. Cheating on quizzes or test=A zero and could possibly become a **Class II offense should the occurrences continue to happen.**
6. If a student misses one or two days from school the material missed can be quickly made up while the student is absent. This way, the student does not have to wait to get back to school to ask what was missed. The absent student should visit Google Classroom or Inow to see what he or she missed. Students are strongly encouraged to complete missed assignments while they are absent.
7. **Tutoring:** Tutoring will be held on **Tuesdays- (2nd half)** during refuel. Student who continue to struggle with weekly concepts are strongly encouraged to attend tutoring.
8. **Class participation during learning strategies is absolutely mandatory. Grades are earned for class participation.**
9. **Group leaders will be assigned at each table. If you have to get up for any reason. Please report exit to your group leader and myself before you go so that group leaders can account and accommodate to leverage the group's progress.**

VI. **Text and Other Required Reading**

Standard:

Alabama Miller & Levine Biology: Pearson

Pre-AP:

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

Campbell Biology Concepts & Connections 8th Edition
Reece, Taylor, Simon, Dickey and Hogan

VII. **Materials and Supplies Needed** (All are Absolutes)

1. 2 inch three ring binder with front and back pockets & College Ruled paper
2. **# 2 Mechanical pencils only!**
3. Tab dividers for notebook check:
 - a. Appetizer
 - b. VSB-T-Chart and VoPiX Vocabulary
 - c. Notes
 - D. LaSB- Illustrations and Lab Data
 - E. 4 SME Research and Stats
 - F. GO (Graphic Organizer)

Disclaimer- A notebook check grade can be described as the instructor selecting a dated sample from any of the above sections. Students are expected to keep all uncollected assignments with dates and titles in the appropriate locations within the 3-ring binder notebook. Assignments will be collected randomly!
4. Mini stapler and staples
5. Basic Scientific Calculator- Example –Texas Instrument
6. Color pencils
7. Lined Paper- College Rule only
8. Paper towels
9. Highlighter- Orange and yellow!

Wish list:

- a. Hand soap-This would be wonderful!!!
- b. One pack of copy paper- This would be wonderful!!!
- c. Box of laboratory gloves- non-latex/ non-powder – Size Large and extra large

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us
Phone: 256-216-5313 ext. 95215

18 – WEEK PLAN

Parents and students, we are more than happy to announce that our labs this year will transcend the classroom barriers. As a part of our ecology unit, we will work in our Nationally Certified outdoor classroom. This area is a living laboratory that allows all students to utilize this ecosystem, as a place of exploration, skill building, and embrace sustainability. Please note that the weekly plan below may include Outdoor Classroom (ODC) labs observation, as a part of the biology curriculum. Please email me if your child has severe allergies that may impede their use of the outdoor classroom. Students could receive both daily and test grades while developing environmental skills in the outdoor classroom.

CSB- The centrality of this class is to build concepts by becoming subject matter experts (SME)!

<p>Week 1 January Or August</p>	<p>Introduction To Standard and Pre-AP Biology:</p> <ul style="list-style-type: none"> • Diagnostic Test • Class Expectations and Structure • Issuance of Google Classroom Code • Laboratory: Equipment, Zones, Skills and Safety- Lab exploration • Introduction to Experimental Design-Scientific Method and Math Skill Building (MSB) • Introduction to, production and analysis of statistical data- Pre-AP • ODC observation of biology- According to temperature! • Team Building and Connections • Self-Reflections • Skill Level Training-Expectations
<p>Week 2 January Or August</p>	<p>From Molecules to Organisms: Evolution and The Chemistry of life</p> <ul style="list-style-type: none"> • How Life is Organized • The Characteristics of Life- SME • Introduction to Evolution: Evolution- Speciation vs. Evolution • Introduction to Biochemistry of Biomolecules, SME –Presentations • Introduction to Molecular Bonding and chemical properties • DNA Structure • Introduction to VSB • Skill Level Training- Expectations • Pre-AP Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • Unit-Test –LaSB performance, MSB-Statistics, Safety, and Experimental Design

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

<p>Week 3 January or August</p>	<p>The Properties of Water:</p> <ul style="list-style-type: none"> • All Acronym of Skills are Possibilities for Assessment this week; the most emphasized will be LaSB, SME, MSB, and DSS. • Jet Assignment • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • Organization to Life, The Characteristics of Life, Intro to Biochemistry, DNA structure, Intro to Evolution, LaSB, Pre-AP Statistics
<p>Week 4 January Or August</p>	<p>The Macromolecules of Life:</p> <ul style="list-style-type: none"> • Chemical Properties Review A. Molecular Components, Including the Elements, Purpose of Biomolecule, Monomers and how they are used to make biology happen in systems. B. CSB for the following: C. Carbohydrates B. Lipids C. Proteins D. DNA D. Macromolecules review E. Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research F. Test <p>Project Title Announcement!</p>
<p>Week 5 February Or September</p>	<p>The Macromolecules of Life:</p> <ul style="list-style-type: none"> • Molecular Components, Including the Elements, Purpose of Biomolecule, Monomers if Applicable, and How They Are Used to Make Biology Happen in Systems. CSB for the following: • A. Proteins-Review B. Nucleic Acids • Macromolecules of Life-modeling and Lab activity-finishing. • Macromolecules of Life review • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • LaSB- The Macromolecules of Life, and Laboratory Report Generation • OSB- Foldable • Modeling the Molecular Structures of the Biomolecules <p>Project Rubric Issued- 21 Days to Complete (3 weeks including weekends)</p>
<p>Week 6 February Or September</p>	<p>From Molecules to Organisms:</p> <ul style="list-style-type: none"> • DNA structure and Function Review • DNA-LaSB • DNA structure and function modeling • DNA Replication • All Acronym of Skills are Possibilities for Assessment this week • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • JA

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

	<ul style="list-style-type: none"> • Possible Project Rubric • Unit Test
<p>Week 7 February Or September</p>	<p>Molecular Biology Introduction To Cells:</p> <ul style="list-style-type: none"> • Cell Theory • Prokaryotic and Eukaryotic Cells • Animal vs. Plant Cells • Cell Structure and Function • Developing and Using Models • ODC- Living laboratory observation, data collection, and analysis, and sustainable development • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • JA • Test
<p>Week 8 February Or September</p>	<p>Cellular Energetics: Photosynthesis- Lots of Chemistry</p> <p>A. Light Dependent Reactions B. Light Independent Reactions (Calvin Cycle)</p> <ul style="list-style-type: none"> • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • JA
<p>Week 9 March Or October</p>	<p>Cellular Energetics: Respiration- Lots of Chemistry</p> <p>A. Glycolysis B. Citric Acid Cycle C. Electron Transport Chain</p> <ul style="list-style-type: none"> • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • Test- October -Cellular Genetics: Photosynthesis and Cellular Respiration
<p>Week 10 March Or October</p>	<ul style="list-style-type: none"> • Cell Cycle and Reproduction including Mitosis • The Impacts of Cancer • Introduction to Meiosis-Genetic Diversity • Introduction to Genetic Disorders • ODC- Living laboratory observation, data collection, and analysis, and sustainable development • Test • JA
<p>Week 11 March Or October</p>	<p>Genetics:</p> <ul style="list-style-type: none"> • Protein synthesis and simulations • Structures of Genes • Gene Regulation

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

	<ul style="list-style-type: none"> • Mutations and Simulations
	<ul style="list-style-type: none"> • Identifying and Understanding the Impacts of Mistakes that Can Occur During Protein Synthesis • Genetic Disorders • Introduction to Punnett Squares and Modeling • Test- Cellular Reproduction, Protein Synthesis, Mutations and Gene Regulation <p>Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research</p>
<p>Week 12 March Or October</p>	<p>Mendelian Genetics and Punnett Squares:</p> <ul style="list-style-type: none"> • Crossing Punnett Squares including mono and dihybrid • Analysis of crosses • Speaking the Language of Genetics • Computation and Analysis of Monohybrid and Dihybrid cross • Segregation and Independent Assortment • Incomplete and Codominance • Multiple Allele and Polygenetic Traits • Karyotypes • Genetic Counseling • Introduction to Pedigrees and Modeling • Pedigrees • Genetics Review • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research ODC- Living laboratory observation, data collection, and analysis, and sustainable development • Test
<p>Week 13</p>	<p>Spring Break=March 30th-April 3rd</p>
<p>Week 14 April Or November</p>	<p>Unity and Diversity-Evolution:</p> <ul style="list-style-type: none"> • Charles Darwin • Evolution and Speciation • Evolution and Natural Selection • Microorganisms (Bacteria and Viruses) • Analyzing and Interpreting Adaptations • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • ODC- Living laboratory observation, data collection, and analysis, and sustainable development • Test

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

Week 15 April Or November	The Classification of Organisms and Introduction to Ecology: <ul style="list-style-type: none"> • Classifying Organisms Including Microorganisms • Binomial Nomenclature & Dichotomous Keys • Energy Flow In Ecosystems- Producers and Consumers • Modeling Energy Flow • Limiting Factors and Primary Productivity • Aquatic Ecosystems • Symbiosis • 10% Law of Energy • Biogeochemical Cycles Ecology of Ecosystems: <ul style="list-style-type: none"> • ODC- Living laboratory- Food chain observation and Sustainable Development • Population Biology • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • ODC- Living Laboratory Observations and Analysis and Sustainable Development Unit Test- Ecology Evolution and Classification of Organisms
Week 16 April Or November	<ul style="list-style-type: none"> • ODC- Living laboratory- Food chain observation and Sustainable Development • Population Biology • Test- • Pre-AP-Rigorous Independent Research and Reports, Generalizations of Concepts, and Modeling and Representations of Independent Research • ODC- Living Laboratory Observations and Analysis and Sustainable Development Final Exam Study Guide Issued!
Week 17 May Or December	Ecology-Population Biology <ul style="list-style-type: none"> • Review of Ecology Exam Review
Week 18 May Or December	Review for Final Exam and Finals:

The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. Adequate notice will be provided to students of any necessary changes.

Classroom Structure and Design:* Students are expected to remain on task and engaged at all times-Generally, the class normally flows as follows:

1. Complete the Appetizer-Before activity and know the meaning of the BPI
2. Learning Target Statement
3. Introduction of action plans
4. Dinner –During Activity
5. Clarifications
6. Homework- Reading for quiz, SME Completion, Vocabulary, Foldable Completion
7. Dessert-Exit Pass

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher:

Mrs. Williams

Email:

pwilliams@madisoncity.k12.al.us

Phone:

256-216-5313 ext. 95215

The Digital Mobile Rationale:

At any point during the submission of an assignment can no student write text using “text messaging” lingo. Students are to write using formal grammar.

Technology Request:

- Please allow your child to bring his or her lab top to class. The instructor or the Madison City schools district will not be held accountable for the lost or damage of an electronic good.
- Absolutely no use of cell phones during class without the teacher’s permission.

Disclaimer:

The 18 week plan may change at any point during the semester.

Dear Parent/Guardian,

I look forward to having a great year! I feel fortunate to have your son/daughter in my class this semester and hope that you will contact me should you have any concerns about the progress of your son/daughter or any aspect of the instruction. With your son/daughter, please read the attached policies, then sign and date this signature page and have your son/daughter return this form. Please provide a current email address and phone number at which I can contact you should the need arise. Parents, please remember that I am not perfect, and can make silly mistakes. If I do, let’s communicate about the issue in a professional tone discussing the issue or problem. Let’s work together for the benefit of the child. If you email me, please allow up to 2 days for me to respond to the issue. Please contact me at school with any concerns.

PRE-AP & GENERAL BIOLOGY

Syllabus

2020

James Clemens High School
11306 County Line Road
Madison, AL 35756



Teacher: Mrs. Williams
Email: pwilliams@madisoncity.k12.al.us

Phone: 256-216-5313 ext. 95215

Williams Syllabus Acknowledgement Agreement Sheet

Use this sheet to print off only if you cannot gain access to the e-copy that's uploaded on your google classroom page.

This is the only form of this syllabus that you have to print and sign!

My child and I have read and discussed the classroom syllabus.

Student Name (Print) _____ Date _____

Student Signature _____ Date _____

Parent/Guardian Name (Print) _____ Date _____

Parent/Guardian Signature _____ Date _____

Email address _____ (w) _____ (h)

Phone number _____ (w) _____ (h) _____ (c)

Any Medical Illness Example: Asthma, Diabetes: _____

What is your occupation? _____

Would you be willing to be a guest in my class to help enrich the learning process? Yes: ____ or No: ____

Outdoor Classroom (ODC) Permission Statement:

I give my child _____ permission to participate in all activities involved with analyzing the naturally occurring ecosystem for activities including the analysis of soil, water, trees, and animals. My child may also engage in the sustainable development (up keeping of the outdoor classroom) to uphold our National and State Level Certification.

All students are responsible for following the rules of the appropriate use and observation of the ODC. James Clemens, nor its Madison City board of education affiliates are not responsible for accidents caused by students not paying attention nor following directions.

Professionally,

Mrs. Williams
Pre-AP Instructor
General Biology Instructor
Online Career Prep.

Outdoor Classroom Lead
Jet's Wildlife Advisor

PRE-AP & GENERAL BIOLOGY

Syllabus

2020



James Clemens High School
11306 County Line Road
Madison, AL 35756

Teacher:

Mrs. Williams

Email:

pwilliams@madisoncity.k12.al.us

Phone:

256-216-5313 ext. 95215