

FOOD SCIENCE

Course Syllabus

Mr. Chaise Williams • Email: leonwilliams@atkinson.k12.ga.us

COURSE DESCRIPTION

Food science integrates many branches of science and relies on the application of the rapid advances in technology to expand and improve the food supply. Students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods. Building on information learned in Nutrition and Wellness and Chemistry, this course illustrates scientific principles in an applied context, exposing students to the wonders of the scientific world in foods and nutrition. Careers will be explored. Food Science is the third of three courses in the nutrition pathway.

GEORGIA PERFORMANCE STANDARDS

The following units will be covered during this course (days subject to change during semester):

UNIT 1 Introduction to Food Science/Food Science Careers

UNIT 2 Food Safety and Preservation

UNIT 3 Measurement, Scientific Evaluation, and Sensory Information

UNIT 4 Chemistry Concepts/Water and pH

UNIT 5 Energy

UNIT 6 Carbohydrates/Lipids/Protein

UNIT 7 Vitamins, Minerals, and Phytochemicals

UNIT 8 Food Additives and Analogs

UNIT 9 Fermentation

UNIT 10 ServSafe and *FOOD FIGHT!*

INSTRUCTIONAL METHODOLOGIES/STRATEGIES

Lectures and Overhead

Demonstrations

Teacher-Directed Practice

Guest Speakers

Cooperative Learning

Handouts

Application Problems/Chrome Apps

Labs/Simulations

EXAM EXEMPTION POLICY

9th/10th grade - may exempt ELECTIVE COURSES only if they meet the following criteria:

- Grade is 75 to 84 with 1 or less absences (for that class)
- Grade is 85 to 89 with 3 or less absences (for that class)
- Grade is 90 or higher with 5 or less absences (for that class)

11th/12th grade - may exempt their exams if they meet the following criteria:

- Grade is 75 to 84 with 1 or less absences (for that class)
- Grade is 85 to 89 with 2 or less absences (for that class)
- Grade is 90 or higher with 3 or less absences (for that class)

* Absences for approved school activities will not count as absences on the Exam Exemption policy.

STUDENT EVALUATION

Your grade will be determined as follows:

Daily Work/Quizzes	25%
Projects/Labs/Tests	50%
Employability/CTAE Foundation Skills	25%
Final Exam	10% of the final course grade

CLASSROOM CHROMEBOOK POLICY

Chromebooks are NOT to be in use at any time unless specifically approved by the teacher. Students should never use the Chromebooks for anything that is not class related (i.e. NO GAMES, movies, video watching, etc.) unless specifically given permission by the teacher. Chromebooks will be taken up and returned at the end of class for use during any other time if necessary. 1st time: Warning. 2nd: Parent phone call. 3rd: Lunch Detention.

ACADEMIC ASSISTANCE/MAHS MAKE-UP WORK POLICY

- Students needing academic assistance must see me on an individual basis to schedule an appointment.
- Make-up work is the responsibility of the student.*** If you are absent from class for any reason it is your responsibility to check with teacher and **get your make-up work completed within 3 days for FULL credit.**
- Students assigned to ISS will be required to make up regular class work during the time spent in ISS. Students assigned to OSS will be required to make up regular classwork **within 3 days of returning.**
- Cheating:** Any student caught cheating/plagiarizing will receive a zero for the grade and a parent phone call. Two or more cheating infractions will result in a referral. Students may have an opportunity to stay after school and earn up to 50% of the credit back at the teacher's discretion.

ATTENDANCE POLICY

Students are expected to adhere to the attendance policy as outlined in the school handbook and student code of conduct.

SAFETY STATEMENT

A safe and comfortable work environment is provided for all students. When in the kitchen, any electronic device/headphone use, any foul play or messing around will result in a ZERO for the current lab and the student may be removed from the following lab(s) to complete an alternative assignment. Cooperation will determine when the student may return to the lab.

***One fire extinguisher is located in the classroom. One is in the back by the classroom closet.

LAB and LAB ATTIRE RULES: No exceptions!

***Students must adhere to the following rules in order to participate in the lab. Failure to do so may result in a zero for the lab.

- Hair pulled back completely and OFF YOUR SHOULDERS (buns!)**--this includes clipping back any long bangs.
 - Hats may not be worn at all.
- Wear **closed-toe shoes** and the provided apron.
- Gloves will be worn** anytime a student is handling any ready-to-eat food. I will provide gloves.
- No ring, watches, bracelets, or long jewelry** as they harbor a lot of bacteria. Hoodie strings should be tucked
- Long **sleeves need to be ROLLED and SECURED up to the elbow** and rolled so they will not fall down.
- NO ELECTRONIC DEVICES IN LAB** - cell phones, headphones, and smartwatches in the lab area (even in your pocket) will result in a ZERO for the lab grade. Chromebooks will be brought into lab only at teacher's discretion.

****If you are ABSENT on a LAB DAY:** Students will have three makeup options: write a full one page TYPED 12 pt. font Times New Roman essay discussing the lab topic covered using any notes we have taken in class, or create a presentation about the standard. **Students have the option to cook at home and film it as well, but are responsible for all ingredient costs.** Lab evaluations must be completed regardless of absence. Students must go above and beyond to receive a grade higher than 70 on lab alternatives. Any sources used must be cited or the student will receive a zero for plagiarism. Students have 3 days to get the lab alternative submitted for possible full credit. **Students must be present for the LAB FINAL. There is NO MAKEUP option for missing the lab final! Students absent on lab final day will receive a ZERO for that grade.**

BEHAVIOR REQUIREMENT

Students are required to have correct "professional behavior" at all times. This includes **respect** for fellow classmates, teachers, kitchen and classroom equipment, Chromebooks and supplies. ***Please follow the school rules concerning cell phones & electronic devices. ABSOLUTELY NO PHONES AND EAR BUDS VISIBLE OR IN USE IN CLASS, EVER.*** The Tardy Policy will be enforced and follows the same guidelines as stated in the ***school code of conduct.*** Employability will count 10% of your average.

➤ **No FOOD** allowed in class EXCEPT in the lab area.

- Bring materials and **be prepared** for class. You need a writing utensil, paper, **Chromebook**, and your notebook each class period. These school supplies were provided by the school.
- When given instruction at the end of class, students must clean their area and put all supplies away **NEATLY** where they belong, and **remain IN THEIR SEAT** until the bell rings.
- **RESPECT** yourself, the teacher, peers, and equipment/supplies! Try and social distance as much as possible.
- **Stay on task** in class and put forth your best effort.
- Any electronic devices used in class without teacher permission will result in a warning and then a detention.

CTAE EMPLOYABILITY SKILLS

Students enrolled in FACS classes are expected to conduct themselves in a professional manner. This includes respect for fellow students, teachers, equipment, textbooks, and supplies. A grade will be taken each week based on employability skills (GA Department of Education standard FIN-PAI-1). *This grade will be divided by the weekdays. For example, a normal week means you can earn 20 points a day for the total grade of 100 on Friday. A 4 day week = 25 pts/day. If you have unexcused absences, you will receive 0 points for that day. You CANNOT make up these grades!*

EMPLOYABILITY SKILLS

Attendance & Punctuality
Time Management/Preparedness
Cooperative Work
Integrity & Pride

POINTS WILL BE DEDUCTED FOR:

- | | |
|---|---|
| 1) Unexcused tardies and absences | 6) Violation of school dress code |
| 2) Coming unprepared (uncharged CB) | 7) Cheating (automatic 0) |
| 3) Inefficient use of time, not on task | 8) Sleeping (automatic 0) |
| 4) Excessive talking, disturbing others | 9) Disrespect towards staff (automatic 0) |
| 5) Cell phone/earbud use at any point | 10) Headphones present in class |

CLASSROOM CELL PHONE/HEADPHONE POLICY

- **Cell phones and headphones are not allowed in class at ANY time.** Both should be put away, or the student will receive a warning, followed by a teacher detention, then administrative referral. Headphones checked out by the teacher to the student may be used at the teacher's discretion.
- **Please understand—there are NO exceptions to this rule!** CELL PHONES MAY NOT BE USED UNDER ANY CIRCUMSTANCE, EVEN IF A STUDENT FORGETS THE CHROMEBOOK. Students needing to contact parents in an emergency may use the teacher class phone only. You may not ask to step into the hall to answer a call or a text, per school policy.

CLASSROOM PASSES:

Students may NOT leave class or use the restroom the first 20 minutes or last 20 minutes of class unless called to the front by the office. Class changes should be used for this. Students are permitted to use my classroom bathroom, but should not take advantage of this. The restroom in Mr. Williams classroom may be used **after the first 10 minutes of class** as needed to prevent students in the halls. It may NOT be used during class changes.

If you would like to help and donate to the Family and Consumer Sciences Classroom, we are always in need of:

- | | |
|----------------------------------|------------------------------|
| - Paper Towels | - To-Go Boxes |
| - Antibacterial Dish Soap | - Dish Sponges |
| - Tissues | - Towels of all sizes |
| - Plastic utensils | - Hand Sanitizer! |
| - Paper Plates | |

I have reviewed the Nutrition and Wellness course syllabus, and we are aware of the grading procedures, expectations, and other course requirements. I agree to fulfill my commitment as a parent/student to the best of my ability. If my child fails to carry out any of his/her responsibilities, I understand the criteria for his/her grading determination.

Please Return to Mr. Williams by August 9th, 2024

Student Portion:

I have read and understand the guidelines and procedures for Mr. Williams class and have shared them with my parents. I understand all expectations for the classroom.

Student's Signature _____

Student's Name: _____

Class Block: _____

Parent/Guardian Portion:

Parent's Signature: _____

Print Parent's Name: _____

Parent's Email : _____

Parent's Phone: _____

Student's Food Allergies (these food allergies need to be reported to the NURSE by a parent as well):

Thank you! I look forward to working with you and your child this semester!