

Chemistry of Foods

Muskogee High School

Room #C128/C132 phone 684-3750 ext# 1737

Course Description

The focus of course is chemistry as it relates to foods. Emphasis is on lab activities that focus on chemistry principles and scientific method. Topics include safety in the lab, basic principles of chemistry, properties of water, acids and bases, enzymes and food preparations, additives and preservation, nutrition and the body, healthy food choices, handling and storing food, baking principles, using recipes, proteins, milk and dairy products, fruits and vegetables, grains and legumes, lipids, public health issues including bioterrorism and exploration of food science careers.

Course or PASS Objectives

By the end of this course, you should be able to:

1. Understand and identify all the aspects of FCCLA.
2. Develop basic knowledge of the chemistry side of foods and safety aspects.

MHS Grading Scale

Total Points	Letter Grade	Percentage	Grade Point
930-1000	A	93-100%	4.0
900-929	A-	90-92%	3.7
870-899	B+	87-89%	3.3
830-869	B	83-86%	3.0
800-829	B-	80-82%	2.7
770-799	C+	77-79%	2.3
730-769	C	73-76%	2.0
700-729	C-	70-72%	1.7
670-699	D+	67-69%	1.3
600-669	D	60-66%	1.0
000-599	F	0-59%	0.0

Muskogee High School Policies

Instructor's Grading Criteria/Timetable:

All course projects will be graded within one week of their due date. Discussion grades will be updated each week no later than Saturday of the week following the Unit's completion.

Course Policies:

Extenuating Circumstances: If you have extenuating circumstances that prevent you from completing projects, quizzes or participating in the class, please contact the instructor to make alternative arrangements. The possibility of alternative arrangements is at the discretion of the instructor. Active communication is the key to overcoming any hurdles you may encounter during the term. If you are unable to contact your instructor, contact your academic advisor.

Additional Grading:

Weekly Participation Grade

- | | |
|---|--------------|
| 1. In work area with materials when bell rings- | 5pts |
| 2. Class participation (according to rules)- | 5pts |
| 3. Cooperative attitude and manners | 5pts |
| 4. Clean work area | <u>5pts</u> |
| Total points/week | 20pts |

Muskogee High School Policies

Extra Credit Policy

Extra credit is offered at MHS not to exceed 100 points average, Extra Credit points in excess of 100.00 may be banked for use later in the semester.

Attendance/Tardiness

Refer to the district attendance and tardiness policy in the handbook

Late Work Policy

No late work accepted unless **Extenuating Circumstances (refer to course policy section)**.

Reading Material and Supplies

Family and Consumer Sciences I, 2nd Edition, 2010

Supplies Needed:

- 2 pocket/3 brads folder
- pencil
- material (when needed for sewing projects)
- flash drive

Course Outline

Each unit will consist of the following activities:

- Reading/ Power Point
- Discussion
- Homework
- Review/ Quiz/ Project
- Test

Introduction to FCCLA

Unit 1 - Public Health and Food Safety

Unit 2 - Lab Equip., Meas., and Safety

Unit 3 - Basic Principles of Chemistry

Unit 4 - Properties of Water

Unit 5 - Acids and Bases

Unit 6 - Enzymes and Food Preparation

Unit 7 - Additives and Preservation

Unit 8 - Nutrition and the Body

Unit 9 - Making Healthy Food Choices

Unit 10 - Food Lab Safety

Unit 11 - Handling and Storing Food

Unit 12 - Using Recipes

Unit 13 - Food Science Principles in Baking

Unit 14 - Proteins in the Diet

Unit 15 - Grains and Legumes

Unit 16 - Milk and Dairy Products

Unit 17 - Vegetables and Fruits

Unit 18 - Lipids in the Diet

Unit 19 - Exploring Food Science Careers

Mastery Learning/Tutoring

The Bell Schedule is implemented to provide time for mastery learning and for tutoring. Refer to the district bell schedule in the handbook for class passing times.

FCCLA will meet from **7:50- 8:10 am on every 2nd Monday and 3rd Thursday**

- FCCLA: monthly basis
 - Advocacy Family: weekly basis
- (Dates will be announced later in class)

Classroom Procedures

1. Entering the classroom

- ❖ Enter orderly and quietly, get textbook, literacy notebook, and other needed supplies from storage area.
- ❖ Answer journal question or other bell- ringer activity

2. If you are absent

- ❖ Pick up missed assignments from the “Missed Work” folder (this is **your responsibility**)

3. Class discussions

- ❖ Be courteous to others and “think” before you speak (A negative statement must be followed by a positive remark about that person or situation.)
- ❖ Allow one person to finish speaking before you begin speaking

4. Assignments

- ❖ Must be written in **blue or black ink or pencil** (anything else earns a “0”)

- ❖ Work is due on the date assigned. Work maybe turned in one day late with point deductions. ($\frac{1}{2}$ of total grade)
- ❖ All assignments must have **your name, date, class title, class period** in the upper right hand corner of every paper, otherwise point deductions will taken off (1/2 of total grade.)
- ❖ Keep assignments neat and legible.
- ❖ All daily assignments and tests are to be placed in the **black basket** for the appropriate hour
- ❖ All projects and reports are required to be in a bound notebook with each page in a sheet protector.

5. When you are finished with an assignment

- ❖ You may read a book or magazine
- ❖ You may work on a sewing project or other allowed assignment

6. Leaving the room

- ❖ You must have a hall pass
- ❖ Please use your 5 minute break to get a drink and to use the restroom
- ❖ Put all supplies away in appropriate areas
- ❖ Pick up any trash on the tables or floor
- ❖ Push up your chairs before leaving (7th hour will need to put chairs on the tables)

Friendly Reminder for You

- ❖ No caps or hats in the classroom
- ❖ No headphones (unless teacher has given you permission to listen to them otherwise, It will be taken and given back to you after class or given to the principal)
- ❖ Do not sit, write, or mark on tables or anything else in the classroom

Journal / Academic Vocabulary/ Bell- Ringer Activities

Write the date on one line, then the question or activity from the board, skip a line, and write your response using complete sentences, correct grammar, spelling and punctuation. Skip 2 lines, then begin the next entry.

Use only pencil or blue or black ink.

If you are absent, write the date and reasons for absence.

Journals/Academic vocabulary notebooks can be taken up at any time for a “test” grade.

I have read and understand the FACS Classroom Rules.

Date

Student Signature

Date

Parent Signature

*Returning with a parent signature by 8/12/11 will earn a candy reward plus 20 bonus points.

**Let’s have a great year and remember, “ATTITUDE is everything!”