CAFE Class Descriptions

Class Title: Chemistry

Age Range: Upper high school

Teacher: Sue Branson

Helper:

Curriculum Used: *Exploring Creation with Chemistry*, second edition (Apologia)

Course Description: The course covers the concepts of matter, chemical reactions, stoichiometry, atomic and molecular structure, thermodynamics, kinetics, and redox reactions. Labs will be done each week in class. This course includes many mathematical concepts, and students should bring a calculator to class.

Time (per week) required outside of class for homework: This is dependent on the student’s individual pace. Each week, each student will be required to read ½ of each module (chapter). Written homework will include the Review Questions and Practice Problems at the end of each module. Tests will also be given on a take-home basis.

Length of Course: 32 weeks

Are new students accepted second semester? No

Fee/semester: $128.00

Books to purchase, if any, and approximate cost: *Exploring Creation with Chemistry*. Please make sure it is the second edition. This can be purchased as a used book on many websites. Searching for it by the ISBN will give you many cost options. (ISBN: 978-1932012262) Only the textbook is needed. You do not need to buy the solutions and tests manual.

Maximum class size: 10

Additional class meeting times required outside of co-op: None

Grade assigned? A numerical grade will be given at the end of the year. The grade will be calculated as follows: 25% class/labs, 25% homework, 50% tests and quizzes.

Number of high school credit hours earned if all requirements are met: 1.0