Work to stay focused on issues of chemistry & chemical biology, or earth science… Remember, we study 1) **structure, properties, function of matter**, 2) the **reactions matter undergoes** and 3) the **energy associated** with those reactions and possibly, 4) the means by which the above blend to create a metabolism and homeostasis.

**Your paper; should be/have/include/use:**

\_\_\_\_\_\_**embedded** citations. Each fact must be researchable. When you give only a works cited, without noting

the sources for each idea, per the instructions, then the facts cannot be researched. This applies to facts

**and to diagrams**

­\_\_\_\_\_\_structural, chemical formula(e), or other diagrams (with citations). When writing a structural

formula, be aware of the type of bond. When you write a chemical formula, be sure you have use the

correct subscripts of the formula.

\_\_\_\_\_\_appropriate (or appropriately employed) vocabulary terms taught in this course, which touch upon

the topic. Vocabulary terms, that are descriptive and add to the chemical conversation include, but

are not limited to:

metal

semimetal (metalloid)

nonmetal

noble gas

density

malleability

matter

molecule (molecular)

ionic compound

reduction/oxidation

polar covalent bond

nonpolar covalent bond

covalent bond

ionic bond

electrolyte

non-electrolyte

precipitate

acid/base

polymer

cation

anion

alloy mixture

compound

element

exothermic

endothermic

saturated

unsaturated

electronegativity

valence octet

Law of the CM&E

potential energy

oxidation/reduction

kinetic energy

*electromagnetic- energy*

hydrocarbon

functional group

atom / ion

temperature

saponification

polymerization

neutralization

pH

\_\_\_\_\_\_explanations as to the meaning of unfamiliar terms (those terms not from the course) ...

e.g. were you to use the phrase "*disproportionation reaction*" ... you should explain what that means, in

light of the course work

\_\_\_\_\_\_chemical reaction equations either using formulae or some other diagram which illustrates the reaction.

\_\_\_\_\_\_a few lines as to how this topic (might) connect to your major or interests or to your life-experiences

\_\_\_\_\_\_mostly chemistry & **less** descriptive biology. Try to focus on one or two issues regarding the

biochemistry or chemistry of your idea(s) .... by looking at the type of reactions, bonds, energies,

structures, solubilities. … etc

\_\_\_\_\_\_**as little** repetition as is possible… Be careful of this …

\_\_\_\_\_\_appropriate grammar

\_\_\_\_\_\_a fair number of sources, which are embedded in the paper and summarized on a works cited page.

\_\_\_\_\_\_double spacing, the appropriately sized font equal to Times Roman 12 pt. & appropriate margins

\_\_\_\_\_\_completed by the deadline.

\_\_\_\_\_\_**a demonstration of what you have learned …. NOT a regurgitation of somebody else’s work …**

**but how YOU SEE THE IDEAS, (YOUR INTERPRETATIONS), NOW THAT YOU HAVE**

**TAKEN THIS COURSE**