**EAPS111 – Spring 2014**

**Lab Exam 2 Review Sheet**

**General information**

* You should be familiar with the following specific rock names, and also be able to recognize these rock types in hand specimen. You will be expected to recognize and understand the distribution of rocks in a simulated “field” environment, and this will be covered in the review section. For the major rock classifications (sedimentary and igneous), you should also have a basic understanding of the conditions of formation and what the presence of these rocks tells you about the geologic environment.
* In the case of sedimentary rocks only, it will be important that you can relate specific sedimentary rock types to their likely environments of deposition, and what sequences of sedimentary rocks tell you about the history of environmental change at that site.
* Your lecture text (and PowerPoints – especially Lectures 12 and 13 and associated readings) will be very useful guides for these things, as well your previous lab experience.

**You should be able to:**

**Lab 5**

* Be able to identify the 13 main rock forming minerals using the various testing tools and without the charts used in lab
* Be able to explain how the different minerals fit into Bowen’s reaction series (why they are located where they are in Bowen’s reaction series)

**Lab 6**

* Be able to identify the 10 igneous rocks identified in class using the various diagnostic characteristics used in lab and without the charts used in lab
* Be able to explain how you can tell whether an igneous rock was intrusive/extrusive
* Be able to explain where the igneous rocks fall within Bowen’s reaction series
* Be able to explain the various volcano types and how the explosiveness/viscosity is related to Bowen’s reaction series

**Lab 7**

* Be able to identify the 10 sedimentary rocks identified in class using the various diagnostic characteristics used in lab and without the charts used in lab
* Be able to explain how water velocity is related to the grain size that is being moved
* Be able to identify various depositional environments for each of the sedimentary rocks

**Lab 8**

* Be able to determine the timing of geological events using relative dating techniques (cross cutting relationships, law of superposition, etc)
* Be able to explain the idea of exponential decay and how it is used for absolute dating techniques