**2017 STEM 5023 Final Project (100pts)**

**STEM Lab Design and Proposal Assignment**

**Task:**

Each candidate will work as a member of a design to team (2 students) to develop a proposal for an elementary STEM education laboratory.

**Parameters:**

This document will help guide elementary schools in developing and setting up a STEM laboratory. The completed proposal and presentation must be submitted electronically as both a Word and a .PDF document.

**Deliverables**:

1. A written proposal for the addition of a STEM lab in your future school. –The proposal will include:
* An introduction – What is STEM education? Why is STEM education important? Why the addition of a STEM laboratory is important?
* A description of the space needed to implement integrated STEM education (classroom.4teachers.org, floorplanner.com, etc.)
* A detailed digital drawing of the room including dimensions and labels
* A list of tools needed (essential, nonessential – would be nice to have) including vendor names and prices for ordering
* A list of materials (found materials, materials often found in classrooms, additional materials) including vendor names and prices for ordering
* STEM Resources - links to free resources, descriptions and pictures of exemplary STEM laboratories/classrooms
* Safety considerations
* Storage considerations
1. A 7-8 minute presentation including a PowerPoint or multi-media presentation of the proposal of the STEM education laboratory design. Presentations will take place during the time of the final examination.