

IT 570 Project Proposal

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Project description

In a blended learning environment, students will learn how to solve real-life and mathematical problems involving angle measure, area, surface area, and volume. In order to reach that goal, students will meet a series of competencies, or objectives. Students will be able to

- Name polygons
- Find perimeter, circumference, and area of polygons
- Identify solid figures in 3D
- Find surface area and volume of solids

Students will demonstrate mastery of these competencies, or objectives, by completing synchronous and asynchronous activities.

The Knox County Schools curriculum and instruction department have set forth the curriculum framework for Geometry teachers and students. The basis of the need for my proposed unit of instruction is that the goal and competencies/objectives outlined above will be tested on the county's end-of-course exam. Students' grade on the exam will be worth 25 percent of their final grade.

Target audience

The target audience for my project are special education high school juniors with disabilities such as specific learning disabilities in reading comprehension, written expression, and math, autism, functional delays, and emotional disabilities. In addition, special education high school seniors who failed junior year Geometry A may also be included in the target audience. It's important to note that special education students meet the graduation requirement of four years of math by taking Algebra I over the course of their freshman and sophomore years and Geometry over the course of their junior and senior years. This means special education students are able to spend about four times the amount of time that regular education students spend on the each subject. Also, the targeted students have an Individual Education Program (IEP) written especially for them which includes accommodations in the classroom and on the end-of-course exam. Common accommodations include extra time for assignments and tests, small group setting, oral and written directions, use of calculator, and abbreviated assignments. Students will have access to their own MacBook Pros beginning the first week of October.

Overall project goal

Students will be able to solve real-life and mathematical problems involving angle measure, area, surface area, and volume. Goal mastery will be demonstrated via a series of tasks as well as a culminating project. Ultimate mastery of the goal and its competencies/objectives will be

demonstrated on the Knox County end-of-course exam taken at the end of the students' senior year of high school.

Action map

