

- **Online Trigonometry Course Project**

Online Trigonometry Course Project**100 Points****Due Date: You must submit your project prior to taking your Final Exam**

Each student must submit a 5 to 10 page typed paper containing research representing their own original work which examines the topic of **Vectors**. Each paper should include the following items:

1. Definition of a vector
2. Commonly used vector notations
3. Basic operations with vectors (addition, scalar multiplication, dot product, etc.)
4. At least one real world application involving vectors
5. Any other vector related topics of your choosing

Each student is strongly encouraged to use diagrams to help clarify the points of their paper. In addition, be sure to submit a cover page and a works-cited page with your project. Your textbook may serve as your main resource since it has an excellent introduction to vectors with many good applications.

If you have questions regarding this project, please feel free to contact Mr. Trunkhill for help at any time via email or in person during office hours.

Commonly Asked Questions??

What should I do if I cannot correctly type the symbols on my word processor for my paper?

You may hand draw any symbols or diagrams that you cannot create digitally in your paper.

What should I do if I discuss everything and my paper is still not at least 5 pages?

In this case I would suggest adding additional vector topics and/or additional applications.

What are some good applications of vectors?

There are many including Resultant Force Problems, Polar Form of a Vector, Angle Between Two Vectors, Projection of a Vector onto another Vector, Torque, Work, Path of a Projectile, etc.

Are late papers accepted?

Since grades are submitted as soon as your final exam is graded, no late papers can be accepted. Failure to submit a Course Project prior to taking your final exam will result in a grade of zero.

How should I submit my paper to you?

You may email your paper to Mr. Trunkhill or drop it by his office in Bodie Hall, room 232.