

**Pompano Beach High School**  
**Scientific Visualization 3**  
**Course Syllabus 2016 - 2017**

**Instructor:** Mr. Holley  
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**Course Description:**

This course is concerned with the visualization and creation of 3-D computer generated models and their applications in today's manufacturing, communication, and publishing industries.

Students will be instructed in the principles of 3-D modeling using Rhinoceros NURBS modeling software. In a laboratory setting, students will have an opportunity to practice the strategies and methods commonly used in creating and solving 2-D and 3-D geometric problems. Information given in lectures and demonstrations will address aspects of modeling free-form curves, surfaces, and solids. Students will be introduced to a variety of 3-D model applications as they are used in illustration, engineering, design, documentation drawing, entertainment, and animation.

In addition to developing a working knowledge of 3-D terminology and concepts, each student will learn how to create a variety of 3-D geometric models from technical drawings, sketches, real models, and written descriptions.

**Prerequisite:** Successful completion of Sci-Viz 2 (Data Modeling).

**Course Objectives**

- Using Rhino in other classroom subjects
- Provide students with the ability to describe the organization, terminology, function, capabilities, and limitations of 3-D computer graphic software in regards to modeling
- Use Rhino 3-D modeling software to create working objects
- Set up a 3-D scene and view 3-D space
- Place lights and render scenes

**Evaluation**

- Design assignments 75%
  - Completing assigned activities on time is essential to learning computer software. Students must be encouraged to keep up with the daily computer work so future projects can be completed.
  - Students who fall behind in assignments in the first few weeks of class find it difficult to produce more complicated designs near the end of the year.
- Writing assignments 25%
  - Writing assignments will be due after every project is completed.
  - The assignments will discuss what you did, what commands you used, and other stuff.
  - This will also include TDQ, TTO, CRT or whatever they are called this year.

Academic dishonesty (cheating of any kind) will result in a grade of 0%.

**Attendance:**

1. Coming to class on time everyday is required.
2. If you must be absent from any class, make sure it is excused immediately.
3. You are responsible for all material presented in class. Tests, quizzes, notes, and homework often include questions on material presented only in class, so performance on these indirectly reflects attendance.
4. All work must be handed in on time for full credit.
5. You have only 2 days per absence to turn in your assignment.

**Classroom Behavior:**

1. Be seated and ready to work at the sound of the tardy bell.
2. Begin and complete your daily assignment on time.
3. Stay in assigned seat and keep working on your assigned task.
4. Non-class related activities, such as Games, Internet, etc, are not allowed!
5. Disruptions, lack of respect, unwanted chatter, pranks, insubordination, etc WILL NOT BE TOLERATED.
6. Get a good night rest, because sleeping will not be tolerated
7. No student will be allowed to change any computer configurations on their computer workstations
8. Treat others the way you would like to be treated

**Class Rules:**

1. No CD's, phones, music listening tools or any kind of devices are allowed to be used in the computers.
2. No food, drinks, and chewing gum are allowed in the classroom.
3. School Phone policy is strictly enforced.
4. Complete all the assignments on time to earn all the points.
5. Playing games, browsing on non-lecture related web sites, or standing by the door before the end of the block bell will not be permitted
6. No sleeping
7. Every student stands for the pledge of allegiance
8. Learn and have fun!

**Textbook:** Rhino Level 2 v4.pdf (this will be on the computer so it can be referenced at any time)

**Supplies:**

- Jump drive (aka flash drive, aka USB drive)

Student: If you have any problems or questions, please feel free to make an appointment with me, or email me. Assistance can be arranged with me for after school.

**I CANNOT HELP IF YOU DO NOT ASK!**

Detentions will be given for any disciplinary infraction. The student will have one week to serve the detection. Failure to serve the detection will cause referral to administration.

Parent/Guardian: Please check with your child frequently to see how he or she is doing in class. It is important that you are aware of his or her progress. If you have any question, please email me, and I will do my best to respond to you in a timely manner. I will post grades as quickly as I can on Pinnacle.

Thank you,

Mr. Holley

If you understand and your parent both accept the rules and expectations of the class, please type your **name**, your **parents name**, the **date**, and **your parents phone number** into the Edmodo assignment. If all 4 are not there you get a zero.

Please return this portion by August 30<sup>th</sup> or August 31<sup>st</sup>, 2016

School Facebook: <https://www.facebook.com/pages/Pompano-Beach-High-School/112289312117396>

School Twitter Account: <https://twitter.com/mypbhs>

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Course Pacing Guide 2016 - 2017***

**Time Line:**

September – Rhino refresh

October – Rhino 3D printable models

November – introduction of Blender software

December – Blender modeling

January - introduction of Maya software

February – Maya Modeling

March – Make something for a teacher

April – Finish strong and make something amazing for yourself before you go

May– Finish strong and make something amazing for yourself before you go