

**Mr. Jesse J Allen**  
**Introduction to AutoCAD**  
**(CAD) Computer Aided Design**

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Room 121  
Boonslick Technical Education Center  
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**Course Description:**

Through a combination of lecture, hands-on exercises, and drawing problems, this course introduces the student to computer-aided design and drafting using the AutoCAD software. The AutoCAD topics covered in this course include an introduction to AutoCAD features, starting and setting up drawings, point coordinate entry methods, creation of 2D objects, layer management, object properties, selection sets, object snap modes, polar tracking, object snap tracking, construction techniques, creating and managing text objects, editing geometry, display control, and drawing inquiry methods.

**Course Objectives:**

In this course, students will:

- Use AutoCAD's precision drawing tools and method to construct accurate 2D drawings.
- Create and manage drawing layers, and control object properties.
- Create, edit, and modify text styles and text objects in AutoCAD.
- Control the drawing display and utilize named drawing views.
- Construct and edit polylines and splines.
- Use editing tools and grip editing to modify geometry.
- Use inquiry commands to obtain drawing information.
- Complete Chapter 1-15 in 'AutoCAD and Its Applications' Textbook.
- Introduce Basics of 3D drawing as an introduction to AutoCAD Advanced class.

**General Information:**

To be successful in this class, students will follow all BTEC/Boonville School District rules and the following class rules:

- Safety is a priority. All students must consistently practice safety skills in the classroom and in the shop.
  - Consequences:
    - Alternative assignment and email home
    - Disciplinary Referral and email home
- Show respect for classmates, do not interfere with others' ability to learn, no talking during lectures and/or demonstrations, and always use common sense.
  - Consequences:
    - First offense – warning/reminder
    - Second offense – lose class participation points until you have a zero for the day.
    - Out of points? – referral
- Take initiative to get make-up work after an excused absence.

- You will have two extra school days to make up assignments missed for a single excused absence. After two days, you will earn a zero on that assignment.
- Unexcused absence make-up will be addressed on an individual basis.
- Always be prepared for class by treating it as a job
  - Be on-time
  - Bring appropriate materials. (Paper, pencil, completed assignments, notebook)
- Save all work on USB flash drive. Create a different folder for each chapter and save each assignment in the appropriate chapters' folder.

### **Supplies Needed:**

- 1 GB minimum USB flash drive
- A notebook, paper, pencil, and required assignments.
- A calculator would be helpful
- Earbuds or headphones for watching AutoCAD videos on Youtube.

### **Grading:**

I will keep a running tally of all points that are offered vs. all points earned for each student. All points offered for assignments, tests, quizzes, projects, etc. are of equal value. I will not have weighted grades.

If necessary, I will make class behavior and performance part of the grade. This may be unnecessary, but at some point during the year, I reserve the right to make each day worth 10 points towards your final grade.

Regular BHS grading scale will be followed. Please check your student handbook.

### **Get AutoCAD and other Autodesk Software for your use in this course.**

1. Go to [www.autodesk.com/education/free-software/all](http://www.autodesk.com/education/free-software/all)
2. Look for and click on the College & university students link
3. Click on the software title you would like to download
4. Follow the instructions to log in or create an account.
5. If you need to create an account, fill out the form. I suggest that you use your student ID as the Autodesk ID (Username) and your school password as the password as you will be using this site primarily for school.
6. You should get an email from Autodesk with instructions on how to return to the site and log in.
7. Once you are logged on to the site select the software downloads button.
8. Look for the correct software for your class. We are currently using the 2014 versions.
9. Make sure that you get the correct language and especially the correct bit for your computer 32 or 64!
10. Use a google or YouTube search to find out if your computer is 32 or 64 bit if you do not know.
11. Finally follow the instructions to load and authorize your software.
12. I cannot offer any technical support for this process so you MUST be resourceful. I suggest that you get started right away!