**Survey of Engineering Graphics**

**COURSE DESCRIPTION:**

Survey of Engineering Graphics is the second course in the Engineering Drafting and Design Career Pathway. The course is designed to build student skills and knowledge in the field of engineering graphics/technical drafting. The course focus includes working drawings that include sectional, exploded axonometric, pictorial views, and pattern developments. In addition, various product design related projects will be assigned throughout the semester in addition to Autodesk Inventor drawing problems. Students will have the opportunity to use digital fabrication tools such as a 3-D printer, laser engraver/cutter and CNC mill. The prerequisite for this course is Introduction to Drafting & Design.

**MATERIALS AND EQUIPMENT:**

You will need a USB drive and a sketchbook for notes/ideas (any size of your choice). Items are available at office supply or art stores. All other equipment will be provided to you in class. You will be responsible for maintaining a digital portfolio of your work that will be submitted periodically throughout the semester. Some projects may require purchase of additional materials such as acrylic, chipboard, or other model making materials. You may download free Autodesk Inventor software for student use at home from Autodesk at <http://www.autodesk.com/education/free-software/all>.

# GRADING:

**10% Class Participation**

**20% Quizzes/Class Exercises**

**40% \* Project Drawings, Physical/Digital Models and digital portfolio**

**20% \*Comprehensive Final Project - STEAM Symposium and Final Exam**

***\*Major Assignments will be received late, but there will be up to 20% penalty for each day late.***

Per Wheeler policy, grades will be entered weekly and graded work returned within 5 days with the exception of the final project and exam.

**EXPECTATIONS:**

1. Be respectful: Of yourself, others, our classroom environment, your work station, materials/equipment, our school, and our community. Keep your workstation neat and put supplies away at the end of class. Use classroom tools properly and for their intended use.
2. Be on time: Have a pass if you are late. Be prepared and complete assignments on time.
3. Be courteous: Be polite and helpful and willing to work with others.
4. Be actively engaged: Be attentive and participate in class activities, discussions, and presentations. Utilize class time and work diligently on projects and assignments. Lab computers and printers are for class related research and projects only. Videos, gaming or other non-class related activities including printing projects/papers for other classes are not permitted. Please have cell phones and other devices, food and drinks put away unless otherwise noted.
5. Class participation grades will be based on following class expectations and exhibiting workplace readiness and employability skills. A daily grade will be given. Students off task or using their cell phone continuously will receive a "0" for that day. Class participation is 10% of your overall grade.
6. *Note that students must adhere to all rules in the Wheeler High School Student Handbook. Take particular note of the rule of no cell phone use during class on page 34 of the handbook. Phones may be used on certain occasions with permission as a camera to document work and for listening to music while completing assignments. Otherwise, texting, making/receiving calls, gaming, selfies/videotaping etc. are not permitted during class.*

**COMMUNICATION:**

Please feel free to contact me if you have any questions or concerns by email: [Valerie.bolen@cobbk12.org](mailto:Valerie.bolen@cobbk12.org)

PLEASE SIGN AND RETURN THIS PART OF THE COURSE SYLLABUS. RETAIN THE SYLLABUS FOR YOUR REFERENCE. IF YOU HAVE ANY QUESTIONS, YOU MAY NOTE THEM BELOW OR CONTACT ME SEPARATELY.

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Student’s printed name Class period

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Student’s e-mail

I have read and understand the terms of the Survey of Engineering Graphics Syllabus.

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Student Signature Date

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Parent/Guardian Signature Date

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Parent/Guardian Printed Name(s)

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Parent Phone Number Parent Work/Daytime Phone Number

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Parent Email Address (please print clearly)