

HONORS DRAFTING I SYLLABUS 2020 - 2021

Instructor: Ms. Kimberly Osborne

School: Weaver Academy

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The Power of Being Connected: In order for your son/daughter to be successful this school year good communication between us is vital. I can be contacted anytime you have questions or concerns, email or call. My planning period is: 4th Block Fall Semester and 2nd Block Spring Semester.

Course Description

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science and mathematics. Topics include concepts and trends in CADD (Computer-Aided Design and Drafting), classical representation methods such as sketching, geometric construction techniques, orthographic projection, dimensioning, and CADD software. Drafting I provide an opportunity for our high school students to receive hands on training that is usually not provided until college. Students will be introduced to workplace skills which involve work ethics. Students will also be provided guidance in becoming career and college ready. Drafting will promote design innovation and creative problem-solving through science, technology, engineering, arts and math (STEAM). Students will have the opportunity to download of AutoCAD software at home with a 1 to 3-year activation for free which will allow them to explore all the possibilities. There is an opportunity at the end of this course for students to take an industry recognized certification test; additional information is available from the instructor. Prerequisites: None

Helpful Sites & Software

- ✓ Web: Autodesk Digital Steam Workshop
- ✓ Web: www.autodesk.com
- ✓ Web: www.Gmetrix.net [Certification Practice – will need code from teacher]
- ✓ Software: [AutoCAD 2021](#) by Autodesk

Supply List

- ✓ Composition Notebook – for notes/drawings/sketches
- ✓ Notebook/3 prong folder - for handouts & quizzes
- ✓ Pencils - will be needed daily
- ✓ Notebook Paper
- ✓ Flash drive (4GB min.)

Class Requirements and Expectations

- ✓ Be respectful – To yourself, all adults, and all students.
- ✓ Be polite – Rudeness, disrespect, sleeping, horse playing, etc. will not be tolerated.
- ✓ Work with honesty and integrity.
- ✓ Challenge yourself... TRY, TRY, and TRY AGAIN!
- ✓ Take responsibility and accept the consequence brought on by your actions or lack thereof.
- ✓ Come to class prepared. This means bringing pencil and paper to class, completing and turning in assigned work on or before due date, and working on drafting assignments during specified class time.
- ✓ Keep all electronic devices silenced and put away at all times in the classroom. If you have your electronic device out during class time without permission the school's rules/consequences will be enforced – no questions asked. See Weaver Student Handbook for Weaver's Electronic Device Policy
- ✓ Food is not allowed at any time. Drinks are not allowed near workstation.

Weaver Academy Honor Code

I will abide by the Weaver Honor Code. I will not give or receive unpermitted assistance in the preparation of any work or assessment that is to be used by the instructor as the basis of grading.

Attendance & Tardy Policies

- ✓ See Weaver Academy Student/Parent Handbook

Make up Policy (Work, Quizzes, Test, and Time)

- ✓ Each student is responsible for completing all work missed during any absence from class and it will be available for them to receive when they return. Students have 3 days to make-up missed assignments. Work may not be made up during class unless other class work assigned has been completed.
- ✓ When a student is absent, he/she may make up any work missed. It is *the student's responsibility* to see that this is done at the teacher's convenience (outside of regular class period within a reasonable amount of time).
- ✓ Work not made up reverts to a 0 if nothing has been presented within 3 days and test/quizzes that have not been made up will result in a 0.
- ✓ Students can have 3 absences but on the 4th absence during a grading period (Quarter) the student will be placed in No Credit Status and the grade for that Quarter becomes a 59/F as the highest possible grade. To get out of No Credit Status, the student must make up 45 minutes for each class period over 3 absences.

Coursework

- ✓ Coursework will include reviewing notes (quizzes are not always announced – by prepared everyday), tests (will be announced at least two days prior), or completing designs/drawings/projects and/or other assignments.
- ✓ On the assigned due date, students will submit their course work in Canvas. Late work will be accepted.

Grading Scale (per grading period)

Due to the pandemic, my typical grading policy has changed. Instead of percentage weights for varying assignments, quizzes, test, projects, etc. the grades are points based. I have not been able to give all the typical grades that students would have if we were face-to-face; therefore, percentage weights were not at a sustainable scale. Grades can be found on Canvas and PowerSchool. If you have questions, please let me know.

Daily Schedule for CTE (Career and Technical Education) Students

Virtual Schedule

1 st Block	10:20 am - 11:40am
Lunch	11:40 am - 12:05 pm
2 nd Block	12:10 pm - 1:30 pm
3 rd Block	1:35 pm - 2:55 pm
4 th Block	3:05 pm - 4:25 pm

CTE Student – Inclement Weather Schedule

1-Hour Delay: CTE students in 1st & 2nd block **will** report to classes at Weaver for a modified schedule. CTE students in 3rd & 4th block will operate on a regular schedule.

2- or 3-Hour Delay: CTE students in 1st & 2nd block **will not** report to classes at Weaver. CTE students in 3rd & 4th block **will** operate on a regular schedule.

Early Dismissal: CTE students in 1st & 2nd block **will** operate on a regular schedule. CTE students in 3rd & 4th block **will not** report to classes at Weaver.

Emergency Procedures

Safe Fire Exit: If during drafting class, go with teacher to the bus circle at the front of the school. If during a class change and drafting is your next class, go to the nearest front exit and locate teacher in the bus circle. If during lunch and drafting is your 3rd block, meet the teacher in the bus circle. Students should not use cell phones unless otherwise instructed by teacher.

Tornado Safety: All students should move quickly out of the room and into the faculty bathroom beside the drafting classroom. Assume the safe tornado position (face first) towards the wall. Keep head down and covered with hands, stay calm and quiet. Student should not use cell phones unless otherwise instructed by teacher.

Lockdown Information: Teacher to lock and close doors to classroom. Students should move quickly and quietly to the closet in the room. Students should not use cell phones unless otherwise instructed by teacher.

Weaver Student Handbook

Please make sure you review and understand the Weaver Student Handbook: Student will be held responsible for the material in the Weaver Student Handbook, in addition to the GCS Student Handbook. Make sure you are clear on our Attendance Policy, Discipline Philosophy, Honor Code, Dress Code, and Electronic Device policy. These expectations may or may not be the same at your district school but while attending Weaver Academy (for one or more classes) we hold you accountable for our rules, regulations and consequences.

Course Units of Study/Objectives

The curriculum is structured as a framework for learning software through project-based content based on engaging real-world industry projects that build gradually in difficulty, offering student a chance to achieve small successes as they build their technical skills.

This course has a Certification Exam which every student will take; if they pass it counts as their final exam, but if you do not pass, they will have to take a multiple-choice assessment during the State Exam period.

I. Understand Fundamental Concepts and Trends of Drafting

- 1.01 Understand BIM, and Rapid Prototyping
- 1.02 Understand Industrial Design, Sustainable Design, and LEED
- 1.03 Understand Career Options

(Honors) Create a research and development project that involves the fundamental concepts of drafting and design.

II. Understand the ideation process

****Available on Digital Steam Software**

III. Apply sketching skills and techniques (Architectural & Engineering)

- 3.01 Apply Rough sketching (lettering for clarity, uppercase caps)
- 3.02 Apply 2D sketching – Single and Multi-view
- 3.03 Apply 3D sketching – Pictorials

(Honors) Produce 2D and 3D sketches of an Architectural or Engineering product based on real world concepts.

IV. Apply CAD User Skills for Certification

- 4.01 Apply procedures for working with the User Interface
- 4.02 Apply procedures for creating drawings and reviewing geometric shapes.
- 4.03 Apply procedures for manipulating objects including grips, object selection, and drawing aids.
- 4.04 Apply procedures for working with drawing organization, inquiry commands, and layers.
- 4.05 Apply procedures for altering objects (modifying)
- 4.06 Apply procedures for working with layouts, templates, and viewports.
- 4.07 Apply procedures for annotating the drawing and adding text.
- 4.08 Apply procedures for dimensioning
- 4.09 Apply procedures for hatching objects/enhancements.
- 4.10 Apply procedures for working with reusable content/Blocks
- 4.11 Apply procedures for creating additional drawing objects, polylines, splines and ellipses.
- 4.12 Apply procedures for plotting the drawing

(Honors) Produce working drawings and 3D model of an architectural or engineering product based on real world concepts.

This form is an official contract to state that you have received this information and both you and your child understand. **This policy sheet is to be signed and will be used for contact purposes** I look forward to an exciting year!

I have read the rules and policies for Honors Drafting 1 and understand the policies. I have also read and understand the policies regarding absences, make-up work, and communication.

Student Name (**Printed**) _____

Student Name (**Signature**) _____ Date _____

Parent Name (**Printed**) _____

Parent Name (**Signature**) _____ Date _____

Parent Email Address _____

Parent Phone Number _____