

Justice Myron E. Leavitt Middle School

THE BEST
MIDDLE
SCHOOL IN
THE
COUNTRY!

Follow the PATRIOT WAY FIVE CORE VALUES

LEADERSHIP: LEAD inside and outside of the classroom through a POSITIVE example.

COURAGE: Take RISKS in their learning and thinking: have courage to share ideas.

INVINCIBLE GRIT: PERSEVERE even when tasks get tough.

CREATIVITY: INNOVATE: Use your creativity to solve problems at school and in the community. THINK outside the box.

GLORIOUS KINDNESS: TREAT each person the way you wish to be treated.



Course Expectations Ms. Neiry Autocad/3d Printing 7th /8th Grade



Student's Name:

Student ID Number:

Student:

- I have read and understand the school rules listed above.
- I have read and understand the progressive discipline steps for inappropriate behavior and tardies.
- I have read and understand the course expectations provided for this course.

Signature of Student

Date

Parent/Guardian:

- I have read and understand the school rules pertaining to my child.
- I have read and understand the progressive discipline steps for inappropriate behavior and tardies.
- I have read and understand what is expected of my child in this course.

Signature of Parent/Guardian

Date

Dear Parents/Guardians,

1. To confirm you have read the Course Expectations take a screen shot of the first page.
2. Sign the Parent signature and have your child sign the student signature using annotations/mark up on your phone/ipad.
3. Have your child upload the image to Canvas. (they know how)

Text Book: Engineering Notebook provided by the school and kept in the classroom

Price to replace textbook: \$0.00

Course Description:

I. Course Goals

- a. To differentiate between science and technology. Science is the study of the natural world, while technology is the study of how humans develop new products to meet needs and wants.
- b. To discover that teams of people can accomplish more than one individual working alone.
- c. To notice that technological change is seen through inventions, innovations, and the evolution of technological artifacts, processes, and systems.
- d. To learn that technology can have positive and negative social, cultural, economic, political, and environmental consequences.
- e. To learn that engineers, designers, and engineering technologists are needed in high demand for the development of future technology to meet societal needs and wants.
- f. To create an engineering notebook, used to record original ideas or designs.
- g. To develop a portfolio as an organized collection of best works.
- h. To design teams use brainstorming techniques to generate large numbers of ideas in a short amount of time, striving for quantity, not quality.
- i. To learn about and create a design brief as a tool for defining the problem; it is an agreement between the engineer and the client.
- j. To use design briefs to explain the problem, identify solution expectations, and establish project constraints.
- k. To understand that a decision matrix is a tool used to compare solution ideas to the criteria so that you can select the best solution.
- l. To convert between both English and Metric systems of measurement.
- m. To accurately measure; it is important at school and at home, at work and at pursuing hobbies.
- n. To differentiate between precision measuring tools that is needed for accuracy. Tools must be used correctly to ensure accurate measurements are taken.
- o. To explain that quality workmanship and accurate measurements with precise instruments are necessary to successfully solve problems.
- p. To develop the ability to create a rapid, accurate sketch is an important skill to communicate ideas.
- q. To model orthographic drawings of an object, used to provide information that a perspective drawing may not be able to show.
- r. To apply dimensions to drawings to communicate size information.
- s. To demonstrate that simple geometric shapes are combined and joined to create a representation of an object.
- t. To use three-dimensional computer modeling for descriptive geometry, geometric relationships, and dimensions to communicate an idea or solution to a technological problem.
- u. To explore that when individual objects are assembled together, their degrees of freedom are systematically removed.
- v. To understand that the fabrication of a prototype is the opportunity for the designer to see the product as a three-dimensional object.

II. Course content and time schedule (sequential)

- a. First Quarter
 - i. What is Engineering
 - ii. Impacts of technology on Society
 - iii. Design Process
 - iv. Measurement: Standard and Metric units
 - v. Sketching and Dimensioning
 - vi. Designing for production: Prototype, Model, Mock up
- b. Second Quarter
 - i. 3d printing options
 - ii. Introducing filament based printers
 - iii. Stereolithography
 - iv. Laser Sintering
- c. Third Quarter
 - i. Mesh Modeling
 - ii. Creating a design with 3d scanning
 - iii. Introducing file repositories
 - iv. Designing for reality
- d. Fourth Quarter
 - i. Net fab studio
 - ii. Performing an automatic/ manual repair
 - iii. Slicing models
 - iv. Dual extrusion

III. Course activities

- a. Investigations / Activities
- b. Readings / Discussions / Notes
- c. Project / Presentations

IV. Curricular programs:

V. Evaluation

- a. Criteria for arriving at students grades
 - i. Class Assignments and Homework 50%
 - ii. Participation (Journals, Materials Checks) 15%
 - iii. Assessments 35%
 - iv. *Semester exams will not be administered early and make up 20% of the final semester grade. Students who are absent may make-up their exams on the district approved make-up day.
- b. Explanation of Student Grades
 - i. A 100 – 90%
 - ii. B 89 – 80%
 - iii. C 79 – 70%
 - iv. D 69 – 60%
 - v. F 59 and below
- c. How and When Students will be Advised of Their Grades
 - i. Grades are posted as quickly as possible.

- ii. Parents and students are urged to check the Infinite Campus Portal on our website regularly.
- iii. Progress reports will be issued at mid-quarter
- d. Citizenship/Behavior Expectations - **Citizenship is not linked to academic achievement.**
 - i. The “O” grade is held in very high esteem by students and parents alike; thus, it should be neither awarded nor withheld lightly. The “O” carries with it possible nominations for all students to the Junior Honor Society and for various school awards and/or privileges.
 - ii. *Leadership* is a definite factor in the awarding of an “O.” Leadership can be overt, by accepting active leadership roles in class or school organizations, or it may be covert, by leading by example or dedication. Excellent citizens may also be enthusiastic followers.
 - iii. To establish as much uniformity as possible in the awarding of citizenship grades, the following criteria should be applied: Movement in the class is appropriate for the activity at hand; Student will act respectfully toward the teacher and other students; Student will obey class and school rules.
 - iv. A few lapses in the behavior may result in a student receiving a grade of “S.”
 - v. Occasional lapses in the behavior may result in a student receiving a grade of “N.”
 - vi. A grade of “U” may be given if identified student misbehavior continues, but only if parent contact, specifically regarding the behavior, and/or a dean’s referral has been made. The “U” grade is cumulative and is not to be awarded for a single spectacular outburst.
 - vii. Citizenship is taken very seriously here at Leavitt Middle School. Teachers expect the very best from their students every day. Students are responsible for following all District, School-Wide Rules, and Leavitt’s Five “T’s,” and Acceptable Use Policy computer network rules. Additionally, students are expected to bring supplies to class, pay attention, stay on task, talk when appropriate, be respectful to all teachers and students, avoid nuisance items (such as cell phones, IPod, etc), and not chew gum. Students who cannot work within these expectations will have points deducted from their citizenship grades. Other actions which disrupt the learning environment of the classroom or other students will also be documented and points will be lost.
- e. Late Work policy – **If a student does not complete any assignment (for reasons other than an absence), they will be assigned a make-up work detention the following school day from 3:30 to 4:25 EVEN if they turn the assignment in the next school day.**
- f. Test retake policy – **A student may only retake a test if 1) all assignments have been turned in 2) the student has asked for help, clarification, or exhibited evidence of further studying and a further mastery of the subject matter.**

VI. School-Wide Rules

- a. Follow directions quickly.
- b. Raise your hand for permission to speak.
- c. Raise your hand for permission to leave your seat
- d. Make SMART Choices: Kindness, Leadership, Courage, Invincible Grit, Creativity
- e. Work hard to do your best for your teachers and parents at all times.
- ◆ f. Keep your eyes on the target. ◆

VII. TARDY POLICY – Progressive Steps

- a. 1st Tardy – Warning & Parent Phone Contact
- b. 2nd Tardy – Warning & Parent Phone Contact
- c. 3rd Tardy – Non-TRS RPC
- d. 4th Tardy – After School Detention
- e. 5th Tardy – In-House Suspension (IHS)
- f. 6th Tardy – Required Parent Conference – RPC/Tardy Contract
- g. 7th Tardy – IHS/parent and student meet with the principal

VIII. BEHAVIOR- Progressive Discipline

- a. 1st Incident – Verbal warning with possible Parent contact by teacher using email listed in Infinite Campus
- b. 2nd Incident - Parent contact by teacher using email listed in Infinite Campus
- c. 3rd Incident – Written contact to parent
- d. 4th Incident – Counselor referral
- e. 5th Incident – Deans’ referral

IX. Supplies needed for this course

- a. **Pencils and Blue/Black Pens will be used every day. Occasionally and Unannounced, a Participation grade will be given in the way of a “Materials Check”.**
- b. **Optional: One pair of headphones/earbuds (Large headphones are provided but are less sanitary).**
- c. **Colored pencils, markers, scissors, glue, ruler, graph paper and other supplies will be provided in class. You are welcome to bring your own.**
- d. **Some supplies may be needed at home for completing assignments.**
- e. **Agenda/daily planner- you can buy this anywhere. It needs to be big enough so you can write in your homework everyday for all classes.**

X. Utilizing technology to learn – At Leavitt, we want to encourage the daily use of technology in and out of the classroom to further enhance the educational experience. As such, Leavitt will be providing students with individual devices in all grades to utilize in class and at home. Students will also be provided with a Google email address to correspond with their teacher and classmates on projects, as well as to turn in assignments. Students may choose to utilize their own electronic tablets (iPads, Kindle Fire, Samsung, etc.) cell phones, laptops, and reading devices for educational purposes. Please be reminded that your student is responsible for the safety of their personal device and must utilize the district’s Wifi to ensure their internet safety. All use of these devices will be for educational purposes and must be approved by the individual teacher.

XI. Explanation of fees (if applicable)

- a. \$25 to cover class materials.

XII. Ms.Neiry is available between 8:45-9:00 AM and 3:20-3:41 PM each scheduled school day. It is best to schedule the day prior and obtain a pass. Please feel free to contact me at: Email neiryjj@nv.ccsd.net or leave a voice message on the School phone 702.799.4699.