WSU PREP

Learn + Explore + Discover + Achieve

Student & Parent Handbook 2021

Weber State University Engineering, Applied Science & Technology

Hill Air Force Base STEM Create the Future!

Weber State University College of Science

Northrop Grumman

BAE Systems Inspired Work

Wadman Corporation

Sorenson Legacy Foundation

Davis School District Learning First

Weber School District Preparing Students for Success

Ogden School District Empowering Excellence Through Education

Schedule

Dates: June 8th-July 21st 2021

Daily Schedule

9:30-10:00 .....Career Awareness Speaker/ or Activity

10:05-10:35 .....Class #1

10:40-11:10 .....Class #2

11:15-11:45 .....Class #3

12:00-2:30 .....Teacher office hours, homework help, etc.

Contact Information

PREP Office: Mon-Thurs	801-626-7552	
Site Coordinator: Hailey Anderson		Haileyanderson1@weber.edu
Site Coordinator: Harlee Turnbow		Harleeturnbow@weber.edu
Program Manager: Bre Campbell	801-979-0227	breannacampbell@weber.edu

I . Curriculum Overview

Year 1

● **Logic and Its Application to Mathematics:** compound statements, truth tables, elementary set theory, Boolean algebra and switching networks.

● **Introduction to Engineering:** introduction to the engineering profession, measurements, simple mechanics, work-energy and engineering design, in-class laboratory demonstrations of engineering principles, and team designs of bridges, robots and more.

● **Topics in Problem Solving 1:** experiences with problem solving as a method of inquiry and application so that students can use problem solving approaches to investigate and understand mathematical content, formulate problems, develop and apply a variety of strategies to solve problems, verify and interpret results, generalize solutions and strategies to new problem situations, and acquire confidence in using mathematics meaningfully.

Year 2

● **Algebraic Structures:** study of groups, rings and fields using systems of integers and rational numbers as models, derivation of algebraic properties of these systems, and cryptography.

● **Introduction to Physics:** mechanics-units and physical quantities, equilibrium of a particle, motion of a straight line, Newton's Second Law, motion in a plane, work and energy, inertia and momentum, Electricity and Magnetism-Coulomb's Law, electric field, potential, direct current circuits, magnetic fields, capacitors in series and parallel.

● **Topics in Problem Solving 2:** Numerous and varied experiences with problem solving as a method of inquiry and application so that students can: use problem solving approaches to investigate and

understand mathematical content, formulate problems, develop and apply a variety of strategies to solve problems, verify and interpret results, generalize solutions and strategies to new problem situations, and acquire confidence in using mathematics meaningfully.

Year 3

● **Probability and Statistics:** basic probability theory- counting procedures, addition and multiplication rules, independence, probability models- binomial, Poisson, exponential, and normal, descriptive statistics- tables and charts, measures of center and spread, analytical statistics- confidence intervals for means and proportions, tests of hypothesis for means and proportions, simple regression, how to collect, organize, and evaluate data, analyze, conjecture, and build arguments based on data analysis, ability to sort, analyze, and interpret numerical data using statistical software.

● **Technical Writing:** clear and persuasive technical reports using word processing software and graphic techniques, original research, logic, invention, assessment of purpose and audience, organization and development, revision, editing, style, grammar, and mechanics.

● **Computer Science:** Students will experience the Software Development Life Cycle and learn important programming aspects as they storyboard, design and code their own computer game and Hummingbird robots.

All Years

● **Career Awareness Presentations:** local industry leaders, business professionals, scientists, professors, etc. will give 30-minute presentations to the students to encourage them to pursue careers in STEM (Science, Technology, Engineering, and Mathematics) fields by providing information about the actual occupation, the career path, necessary schooling, etc.

● **Note for 2021 Curriculum:** Teachers will adapt the curriculum to meet the restrictions of our online program.

Grading Policy

All quizzes, tests, and assignments will be assessed to determine the student's overall grade for each course**. If a student has an overall failing average of all of his/her classes, that student will not be invited to return for WSU PREP the following year.** Grades will be distributed after the program ends. Each course has an instructor and an assigned Program Assistant (PA) available to help students with assignments and coursework.

Cheating and Plagiarism

WSU PREP treats all instances of cheating and plagiarism with the utmost level of seriousness and recognizes all students as responsible for their actions. WSU PREP has the right to investigate any work for a grade if they suspect that cheating or plagiarism has occurred. Cheating can include copying from another students' test, quiz or assignment without teacher approval of collaboration, collaborating with another person during a test without a teacher's approval, permitting any other person to take the test for you, or copying answers directly from a website. Plagiarism includes the unacknowledged use of another person's work/ideas. This includes purchased, borrowed and copied papers.

WSU PREP's cheating and plagiarism policy will be enforced by WSU PREP teachers and staff. Students suspected of cheating will receive a verbal or written warning. Students found cheating will have their grade reduced by 10 points and may not be invited back to participate in future WSU PREP camps.

II. Behavior

Student Code of Conduct

WSU PREP is dedicated to providing an excellent summer program for high-achieving 7th, 8th, and 9th grade students. To accomplish this goal students are expected to behave responsibly at all times to promote a safe, fun, and healthy environment for all participants.

WSU PREP students are expected to:

- Wear appropriate clothing and shoes to WSU PREP in the Park (see Dress Code below).
- Participate in all activities including class work, projects, and any homework assignments.
- Be on time each day and ready to participate.
- Follow Teacher/Program Assistant(PA) instructions.
- Use computers, the internet, and supplies appropriately.

Safety

- Be aware of surroundings at all times.
- Pay attention to instructions and directions given by leaders.
- Stay with the assigned group and Program Assistant(PA) at all times.

Dress Code

- Clothes that reveal midriffs, undergarments, or have low neck lines are not allowed.
- Clothing should not contain inappropriate words or pictures.
- Shorts can be worn but must be long enough to have fingertips touch the hem when standing up
- Friday field trips: WSU PREP t-shirt must be worn with closed toed shoes. (COVID-19 dependent).

III. Online Learning/Interaction

Online Platforms

WSU PREP will facilitate online learning through use of Canvas and Zoom. All program and class information, assignments, coursework submissions, feedback, and grades will be given through Canvas. All virtual meetings and classes will occur through Zoom, the links to which will be on students' Canvas pages.

Online Code of Conduct

Although our classroom environment is now virtual, WSU PREP is continually dedicated to providing an excellent summer program for high-achieving 7th, 8th, and 9th grade students. To accomplish this goal students are expected to behave responsibly at all times to promote a safe, fun, and healthy environment for all participants.

- All communications with other students or staff in any forum, course related email, discussion post, etc., must be polite, courteous and respectful. Offensive or inappropriate language or images are not to be used in any form of communication and will not be tolerated.

Corrective Measures

Corrective measures used will be dependent upon the nature of the behavior, the frequency, and the degree to which the student is willing to try to correct undesirable behavior. Violations of the Online Code of Conduct will be considered a serious violation of WSU PREP rules. Most behavior concerns will be handled in the following manner:

1. Warning.
2. Parents will receive a phone call/student temporarily removed from online forum/discussion.
3. Student permanently removed from online social forums.
4. A warning that occurs after student removal from online forums/discussions will result in the student's dismissal from WSU PREP.

IIV. Prep in the Park (PiP)

What is it?

There are two different forms of PREP in the Park. The first is an assignment for one of their classes that must be completed by attending the event in the park OR done at home; attendance for this PREP in the Park is optional, but the assignment associated with it is a mandatory class assignment.

The second is an optional activity created by the WSU PREP team. These will consist of an engaging hands-on project and a treat or lunch provided by WSU PREP. Participation in this PREP in the Park is completely optional.

Both forms of PREP in the Park will take place at a park in a centralized location where social distancing measures can be practiced. Safety guidelines will be posted and encouraged at every event; however, the WSU PREP team cannot enforce these guidelines.

Why are we doing it?

Although we cannot meet on campus due to health and safety guidelines, in-person projects and interaction has always been a huge purpose of WSU PREP. Meeting at a park where social distancing can be practiced allows us to interact and build social connections while following university guidelines.

Note for Parents

Each PREP in the Park event will be preceded by an email to parents providing a form to RSVP. Parents of students who wish to participate must RSVP to provide consent for their child by the due date included in each email. Only students whose parents have filled out the form on time will be able to participate.

V. Attendance Policy

We will be tracking student's missing assignments instead of class attendance. A missing assignment is defined as an assignment that is overdue by more than 1 week.

If the student accumulates more than 4 missing assignments (total for all classes), they will meet with a program assistant to create an improvement plan together. If the student incurs an additional missing

assignment after that, they and their parent/guardian will meet with the site coordinator to determine a further course of action.