2022-2023 ADDENDUM

High School Course Guide
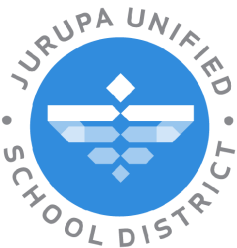
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Career Technical Education

Mathematics

Non-Departmental

CAREER TECHNICAL EDUCATION

CTE Work-based Learning

Grades: 11-12   **10 Credits**   **Year**

Prerequisite: Must complete a CTE pathway

This course is designed for students who have completed a CTE pathway and wish to use their industry and pathway knowledge to work on various projects and in various working or work-like environments. Students will work under the supervision of a teacher credentialed in the CTE pathway they completed.

Meets the Elective Graduation Requirement

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Environmental Horticulture

Grades: 11-12   **10 Credits**   **Year**

Prerequisite: Biology Agriscience

The Environmental Horticulture course provides students an opportunity to gain knowledge and experience on areas such as: identifying horticultural plants and crops; using soil and plant media; propagation; basic growing concepts; greenhouse management; and landscape maintenance. Students will gain hands-on nursery operations experience in which they can apply to the real world and open opportunities for career exploration. Students will be able to work in the garden and greenhouse.

Meets the Life Science Graduation Requirement
Submitted for "d" UC/CSU a-g Requirement

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IT Service Technician

Grades: 10-12   **10 Credits**   **Year**

Prerequisite: Intro to Computer Science

The principle of this course is to explore and find an understanding of technology focusing on computers, software, hardware, technical literacy, digital citizenship, and the history of technology. Through this course, students will be learning an insight into the basics of computers, software for businesses or productivity, presentation, technical troubleshooting, and customer service. Students are learning work experience concepts that would introduce them to 21st century skills. These tasks align with a real world job experience to promote students developing professional skills.

Meets the Vocational Education Graduation Requirement

MATHEMATICS

Data Science

Grades: 10-12   **10 Credits**   **Year**

Prerequisite: C or higher in Mathematics II

Data Science is the process of uncovering the stories hidden within data. The course will emphasize the use of statistics and computation as a means of telling stories with data. It involves formulating questions, and collecting, cleaning, wrangling, analyzing, and visualizing data (that is often huge and complex) to uncover patterns and trends and communicate them to others. Their interpretation relies on computation, simulation, and modeling to describe the uncertainty in each view. This kind of reasoning is exploratory and investigatory, sometimes framed as hypothesis evaluation and sometimes as hypothesis generation. Statistical programming language will be used to bring data science to life. The main goal of the data science course is to teach students to think critically about and with data.

Meets the Mathematics Graduation Requirement
Meets the "c" UC/CSU a-g Requirement

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NON-DEPARTMENTAL

Academic Success

Grade: 9-12   **5 Credits**   **Semester**

Prerequisite: None

This course provides academic support and assistance to students in a variety of subjects. The course also focuses on the pillars of social- emotional learning and the key learning skills and techniques from Conley's Four Keys for College and Career Readiness.

Meets the Elective Graduation Requirement

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Freshman Seminar and Health

Grade: 9   **10 Credits**   **Year**

Prerequisite: None

Freshman Seminar and Health is a year-long course designed to prepare freshmen for success in high school by exploring how students can effectively engage in their learning, develop academic survival skills, develop self awareness and self management skills, build relationships and resolve conflicts, and prepare for college and the workforce. Students also develop an understanding of personal health and wellness aligned with the 6 domains of health education.

Meets the Healthy Living Graduation Requirement with completion of both semesters
Submitted for "g" UC/CSU a-g Requirement

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