



Central Union High School
Information Technology Pathway: Information Services and Support



10th Grade: **Exploring Computer Science**, G-Elective:

Exploring Computer Science (ECS) is a course developed by the Los Angeles Unified School District, University of California Los Angeles, and supported by the National Science Foundation. The course was developed to increase opportunities for students in Computer Science. ECS is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tool or programming languages, the course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems.

- Introduction to: JAVA, HTML, and SNAP!
- Computer Programming
- Web Design and Programming
- Robotics
- Social Issues and Computer Science
- Teamwork



11th Grade: **AP Computer Science Principles**, G-Elective, AP Exam

This course covers the AP Computer Science Principles Framework. We use the Beauty and Joy of Computing a curriculum developed by The University of California Berkeley. The course is actually an Introductory course offered to non-majors at UCB. The goal for the course is for students to explore the fundamentals of computer science which includes problem solving, working with data, understanding the internet, cybersecurity, and programming.

- Programming Language: SNAP!
- Create Applications
- Explore Social Issues and Computer Science
- Problem Solving
- Abstraction, Data Processing, Algorithms, Internet, Binary
- Teamwork



12th Grade: **AP Computer Science A**, G-Elective, AP Exam

This course is designed to teach students how to design computer programs that solve problems. Students learn to apply tools using real-world problems and hands on experience. The courses is equivalent to a first-semester college level course.

- Programming Language: JAVA
- Create Applications
- Explore Social Issues and Computer Science
- Problem Solving
- Teamwork
- Programming, Conditions and Repetition, Methods and Classes, Input/Output, Binary



The Central Union High School District (CUHSD), is committed to ensuring equal, fair, and meaningful access to employment and education services. CUHSD does not discriminate in any Career Technical Education (CTE) opportunities or programs on the basis and/or association with a person or group with one or more of these actual or perceived characteristics of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, pregnancy and related conditions, race, religion, retaliation, sex (including sexual harassment), sexual orientation, or any other basis prohibited by California state and federal nondiscrimination laws respectively.

CUHSD offers CTE pathway courses in the following industry sectors: Agriculture and Natural Resources; Arts, Media, and Entertainment; Building and Construction Trades; Business and Finance; Health Science and Medical Technology; Hospitality and Tourism; Information and Communication Technology; Manufacturing and Product Development; Public Services; and Transportation. Not all CTE programs are offered at both comprehensive high school sites. There shall be no admission criteria for introductory pathway courses (prerequisites may apply for concentrator and capstone courses).

CUHSD has identified qualified personnel to oversee, lead, and direct the district's efforts to meet the legal obligations set forth in state and federal civil rights laws, and regulations in the delivery of education services. Persons designated to coordinate compliance in CTE Programs are listed below:

Tricia Petter, Assistant Principal, 760-336-4300 or Sheri Hart, Assistant Superintendent of Educational Services, 760-336-4530