CTE Course Catalogue

CAREER and TECHNOLOGY EDUCATION
*One of these courses is required for high school graduation.

INFO 2450 - Web Application Design (CE)
10th through 12th grades only
Semester course: 3 UVU Credits / 1 UCAS credit.
*Prerequisite: CS 1030 Computer Science Programming.
Focuses on the design and construction of WWW homepages and maintenance of websites in a multimedia platform environment. Teaches current SGML (HTML) standards and exposes students to the latest enhancements. Covers design concepts, page layout, legal issues, basic client-side and server-side security, and commercial use of the Web.

MECH 1010 (Robotics 1 and 2) - Fundamentals of Mechatronics (CE)
11th and 12th grades only
Full-year course: 3 UVU Credits, 1 UCAS credit.
*Prerequisite: Physics 1010 (may also be taken concurrently).
Covers the fundamental skills and theory of the Mechatronics discipline. Teaches integrated system design which includes electrical, mechanical, and microprocessor programming theory. Discusses the fundamentals of materials science, manufacturing processes, and the application of automation systems in a production environment.

DIGITAL LITERACY
*One of these courses is required for high school graduation.

CS 1030 - Computer Science Programming 1 (CE)
Offered in 9th and 10th grades only
Semester course: 3 UVU Credits / 1 UCAS credit.
Introduces the basics of computing, including computer hardware, and programming concepts, and language. Explores how computers work and how a computer may be programmed. Includes a brief history of computers, programming languages, and computer numbering systems. Presents basic programming constructs; students produce a variety of introductory-level programs. Surveys various computing professions.

CS 1400 – Fundamentals of Programming (CE)
11th and 12th grades only
Semester course: 3 UVU Credits / 1 UCAS credit.
*Prerequisite: CS 1030 Computer Science Programming.
Introduces techniques and tools to formulate and solve problems where computer algorithms and programs are a core part of an effective, repeatable solution. Demonstrates algorithmic thinking using procedural programs composed of sequences of commands, functions, loops, conditionals, and basic data structures. May be delivered online. Lab access fee of $45 for computers applies.