







CTE INDUSTRY & COLLEGIATE PARTNERS





















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BRIGHAM YOUNG UNIVERSITY











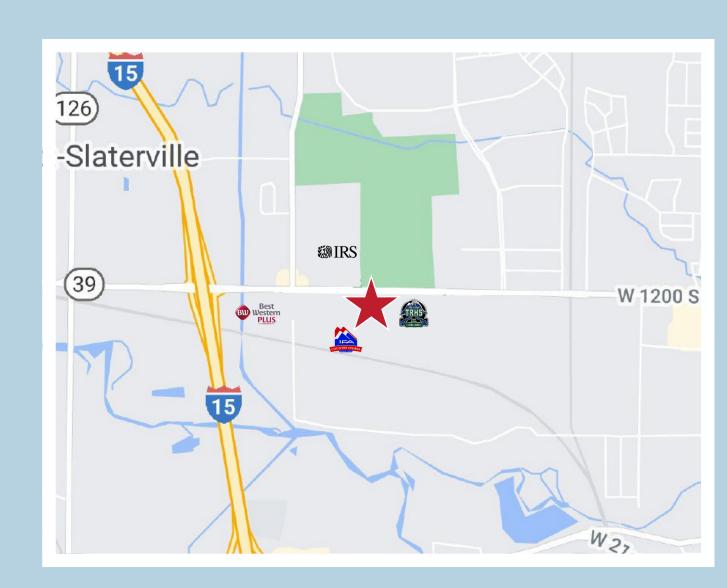






Weber Innovation Center 1007 W 12th Street Ogden, Utah

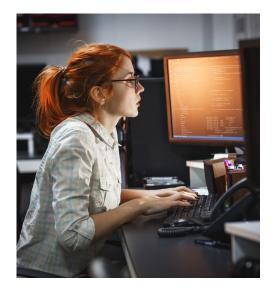
wsd.net/cte/magnets





MAGNET PROGRAM

Experience the Future **NOW!**



Interactive Computer Arts (ICA)

| Creative Apps | 0.5 Digital Studies 0.83 Core Science 1.0 CTE | WSU CS 1030 (4 cr) WSU CS 1010 (3 cr) |
|----------------|---|--|
| Applications | 1.33 Core Science 0.5 Digital Studies 0.5 CTE | WSU CS 1400 (4 cr) WSU WEB 1400 (3 cr |
| Algorithms | 2.66 CTE | WSU CS 1410 (4 cr) WSU CS 2420 (4 cr) |
| Cyber Security | 2.0 CTE | WSU NET 2200 (3 cr |

HS Credit

ICA Creative Apps

Students develop basic skills of app creation using a variety of programming languages: MIT App Inventor, Python, HTML, & CSS to design and develop a wide variety of custom apps and games.

You will learn how to design & develop websites and complex programs and algorithms. Students will use Java, HTML, CSS, java script, and object oriented programming to meet specific design requirements.

Class

Students will learn Object Oriented Programming using C++ to control systems such as robotics and automated processes. This completes the Programming Essentials Certificate at Weber State University.

Students will learn network and computer security along with computer repair and maintenance. This completes the **Cybersecurity** Essentials Certificate at Weber State University.



CE Credit



Construction

| Class | HS Credit | CE Credit |
|-----------------------------|------------------|--|
| Construction Management 2/3 | 2.33 CTE | WSU CMT 1150 (3 cr) WSU CMT 1310 (4 cr) |

onstruction Management 2 & 3

In this class students learn every part of construction (Framing, Roofing, Siding, Electrical, Plumbing, HVAC, Sheet rocking, Interior Design, and Finish Work) by building a "Tiny Home" start to finish.





Foundation Course Options

POE - IED - DE



Specialty Course Options

AE - CEA - RA



Senior Capstone

EDD

Principles of Engineering (POE)

Digital Electronics (DE)

Aerospace Engineering (AE)

POE is a building and investigating class!

energy, automation of devices, and ballistics.

variety of projects. Students use 3D modeling

Introduction to Engineering Design (IED) Students use the design process to create a

software, 3D printers, & a laser engraver.

Students are exposed to basic electronic

principles (number systems, logic gates,

how to create circuits to solve problems.

integrated circuits, PLD's, sequential logic) and

Students explore a broad range of Aerospace

composites, robotics, programming, space

travel, helicopters, aircraft and gliders.

Robotics and Automation (RA)

Students will design injection molds, program Students explore a broad range of engineering robots, create automated manufacturing topics such as mechanisms, structural strength, processes, use 3D printers and CNC machines to produce models of their 3D CAD designs. Prerequisite: IED

Civil Engineering & Architecture (CEA)

This course introduces students to the interdependent fields of civil engineering and architecture. We use industry standard software (Revit) for 3D modeling, 3D renderings, and laser engraved models.

The knowledge and skills acquired throughout

the PLTW and ICA programs come together as students work through the design process to identify a problem, research the problem and topics such as drones, rockets, flight simulators, possible solutions, design & test solutions, and present their product to a panel of engineers.

Engineering Design & Development (EDD)



Project Lead the Way (PLTW)

| Class | HS Credit | CE Credit |
|--|------------------------------------|--|
| Principles of Engineering (POE) | 1.0 Science Elective OR 1.0 CTE | WSU ENGR 1000 (2 cr) |
| Intro. to Engineering Design (IED) | 1.0 CTE | WSU PDD 1010 (3 cr) |
| Digital Electronics (DE) | 2.0 Science Elective OR 2.0 CTE | WSU EET 1110 (2 cr) WSU EET 1130 (4 cr) |
| Aerospace Engineering (AE) | 1.0 CTE | |
| Robotics and Automation (RA) | 1.0 CTE | |
| Civil Engineering & Architecture (CEA) | 2.33 CTE | WSU BDC 1350 (3 cr) WSU CMT 2360 (4 cr) |
| Engineering Design & Development (EDD) | 1.0 CTE | WSU PDD 2830 (3 cr) |



Health Sciences

| Class | HS Credit | CE Credit |
|------------------------------|------------------------------------|----------------------|
| Medical Anatomy & Physiology | 1.0 Science Elective OR 1.0 CTE | |
| Medical Terminology | 0.5 CTE | WSU HTHS 1101 (2 cr) |
| Medical Forensics | 1.0 Science Elective OR 1.0 CTE | |
| | | |



Intro to Physical Therapy

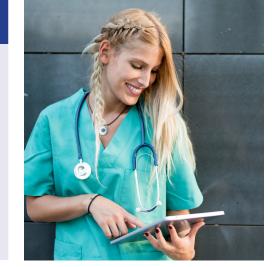
Medical Anatomy & Physiology

1.0 CTE

Through hands on labs, students learn about the medical anatomy of all body systems and how they work together. Students dissect hearts, eyes, kidneys, suture and visit the anatomy lab at WSU.

Medical Terminology

CE course that give students the ability to break down medical terms into common terms that everyone can understand.



Develops the ability to identify, analyze, and process logically using deductive reasoning and problem solving to help solve crimes through hands on labs and guest speakers.

Intro to Physical Therapy

Medical Forensics

This class covers therapy treatments, terminology, history, and ethical considerations that will prepare students for a career in Physical Therapy through hands on labs and clinical observations.

Family & Consumer Sciences

| Class | HS Credit | CE Credit |
|----------------------------------|------------------------------|---------------------|
| Adult Roles & Financial Literacy | 0.5 Gen. Fin. Lit 0.5 CTE | WSU CHF 2400 (3 cr) |
| Baking & Pastry | 0.5 CTE | |
| Outdoor Product Design | 1.0 CTE | |
| Nutrition | 1.0 CTE | WSU NUT 1020 (3 cr) |



Adult Roles & Financial Literacy

This course prepares students to understand human relationships involving individuals and families integrated with general financial

Baking & Pastry

Students will learn about yeast breads, pastries, puff and pastry cream, Cakes, Confectionary, and Cookies. Students will make products for catering and retail. Food Handlers Permit is Required.

Outdoor Product Design

This course will focus on the importance of textiles in society, explore how textiles are produced and how appropriate performance characteristics are incorporated with a focus on Sports and Outdoor Products.

Students learn the basics of human nutrition. functions of nutrients, and how the body works. Prepares students for careers in the Medical field, Dietetics, and Athletic Trainers.

Weber School District does not discriminate on the basis of race, color, religion, sex, age, national origin, or disability.