COURSES	C.E. COLLEGE CREDITS & INDUSTRY CERTIFICATION	COURSE PREREQUISITES OR COREQUISITES	DESCRIPTION/RECOMMENDED COURSE SEQUENCE
AVIATION TECHNOLOGY			
AVIATION 1ST YEAR: Course Options			Our Aviation program gives students foundational knowledge prior to flight training. Students will have the opportunity to utilize the ALC's advanced flight simulators. When students have taken the full two-year program, students will be prepared for the FAA Private Pilot Knowledge Test, be eligible for a commercial drone operator certificate, and understand aircraft operation through the use of flight simulation. Available CE courses also fulfill aviation major requirements at UVU.
Aviation History CE (Full year – 1 credit)	**UVU: AVSC 1010** (*Survey of Aviation Science*) - 2 credits	**Prerequisite:** *Juniors and Seniors only*	
Aircraft Systems (Semester – 0.5 credit)			
U.A.S. (Drones) (Semester – 0.5 credit)			
AVIATION 2nd YEAR: Course Options			
Private Pilot CE (Full year – 1 credit)	**UVU: AVSC 1100** (*Ground Private Pilot*) – 4 credits	**Prerequisite:** *Aviation History, Juniors and Seniors only* ***Flight Simulator also requires:*** *Private Pilot as a co-requisite*	
Flight Simulator (Full year – 1 credit)			
BUILDING CONSTRUCTION			
CARPENTRY BLOCK - *These courses are BLOCKED TOGETHER for 2 periods*			Students are involved in the construction of a home while being supervised by a licensed contractor. Tools are provided. *Classes are offered the last two periods of each day. Students can choose to attend either A day, B day, or both.*
<u>Course 1:</u> **Carpentry 1 CE** (Full year – 1 credit)	**UVU: CMGT 1190** (*Framing & Concrete Lab*) - 3 credits	***Required:*** *Students must be a junior or a senior and provide their own transportation to the job site.*	
<u>Course 2:</u> **Carpentry 2** (Full year – 1 credit)	**UVU: CMGT 1220** (*Finishing Lab*) – 3 credits		
BUSINESS MANAGEMENT			
Business & Marketing Capstone (Semester – 0.5 credit)		**Prerequisite:** *Juniors and Seniors only* ***Business Capstone also requires:*** *Any previous business course i.e. Business Management, Business Law, Entrepreneurship, Marketing, etc.*	Students will learn the marketing and management principles necessary to start and operate their own business, as well as the laws that govern business. As part of the capstone class, students have the opportunity to work on industry projects with a professional mentor. ***These classes help students fulfill classes in the Entrepreneurship & Management Pathway.***
Business Law (Semester – 0.5 credit)			
Entrepreneurship (Semester – 0.5 credit)		*Open to Sophomores, Juniors & Seniors*	
COMPUTER INFORMATION TECHNOLOGY			
A+ Computer Repair & Maintenance (Full year – 1 credit)	**Industry Certification:** *A+*	***Required:*** *Computer Tech or Exploring Computer Science*	Our IT program is meant for students who enjoy exploring technology, learning how to repair and maintain computers, as well as building a network. IT positions are wanted in every industry throughout the world. *Students can earn industry certification when passing qualifying exams.* ***These classes are part of the study of Information Technology and allow students to complete classes in the Information Technology Systems CTE pathway.***
Intro to Info Tech (Semester - .5 credit)			
Network+ Fund (Semester - .5 credit)	**Industry Certification:** *Network+*		
COMPUTER PROGRAMMING			
Comp Science Principles CE (Semester - .5 credit)	**UVU: CS 1030** (*Foundations of Computer Science*) – 3 credits	**Prerequisite:** *Sec Math 1 & either Exploring Comp Sci or Comp Tech*	For students who enjoy technology & want to learn how to design and create computer programs. One year of computer programming is recommended if interested in any field of technology. ***Suggested courses to pair with a Programming course each year:*** ▸ A+ (Comp Hardware & Repair) ▸ Intro to IT and/or Network+ ▸ Digital Media 1 and 2 ▸ Engineering courses ▸ Gaming App Dev 1 ▸ HTML 5 ▸ Robotics 1 and/or Manufacturing ▸ Web Development Capstone ***These classes are part of the study of Information Technology and allow students to complete classes in the Programming/Software Development & Web Development CTE pathways.***
Computer Programming 1 CE (Semester - .5 credit)	**UVU: CS 1400** (*Fundamentals of Programming*) - 3 credits	**Prerequisite:** *Computer Science Principles*	
Computer Programming 2 CE (Semester – .5 credit)		**Prerequisite:** *Computer Programming 1*	
Computer Programming 3 CE (Semester – .5 credit)	**UVU: CS 1410** (*Object-Oriented Programming*) - 3 credits	**Prerequisite:** *Computer Programming 2*	
Algorithms & Data Structures CE (Full year – 1 credit)	**UVU: CS 2420** (*Intro to Algorithms & Data Structures*) - 3 credits	**Prerequisite:** *Computer Programming 3*	
Web Development Capstone (Full year – 1 credit)		*Prerequisite/Corequisite: Web Dev 1, Comp Program 1, Intro to Eng Design, CAD Mech Design, Digital Media, **OR** Architecture (can take at same time)*	

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CRIMINAL JUSTICE			
CJ 1010 Intro Criminal Justice CE (1st Semester - .5 cr)	**UVU: CJ 1010** (Intro to Criminal Justice) - 3 credits	Required: Juniors and Seniors only	*Students are introduced to the field of Criminal Justice within the United States. Classes will include guest speakers, field trips, & other related topics. Courses fulfill either G.E. or major requirements at UVU or other state colleges.* We encourage students to take: ➥ Intro to Criminal Justice (Sem 1) ➥ Criminal Investigations (Sem 2) *Then pair another class like:* ➥ Criminal Law ➥ Medical Forensics ➥ Psychology ***These classes are in the area of Law, Public Safety, Corrections & Security & allow students to fulfill classes in the CTE Protective Services pathway.***
CJ 1340 Crim Investigations CE (2nd Semester - .5 cr)	**UVU: CJ 1340** (Criminal Investigations) – 3 credits		
CJ 1330 Criminal Law CE (Full Year - 1 credit)	**UVU: CJ 1330** (Criminal Law) – 3 cr		
CJ 1350 Medical Forensics CE (Full Year - 1 credit)	**UVU: CJ 1350** (Intro to Forensic Science) - 3 credits		
DIGITAL MEDIA			
DIGITAL MEDIA CORE: **Digital Media 1 CE (Full year – 1 credit)	**UVU: DGM 1110** (Digital Media Essentials) - 4 credits	*NOTE: **Digital Media 1 must be taken either before or at the same time with some other Dig Media courses. Please see below.*	Digital Media teaches students to design and create interactive projects in graphics, animation, sound, video, and digital imaging. Suggested 1st Year Courses: ➥ Digital Media 1 ➥ Gaming App Dev ➥ HTML 5 ➥ Radio Broadcasting 1 & 2 Suggested 2nd Year Courses: ➥ 3D Graphics/3D Animation ➥ Audio Essentials ➥ Digital Media 2 ➥ TV Broadcasting 2 ***These classes are in the area of Information Technology, as well as the area of Arts, Audio/Visual, Technology & Communications. Students can complete courses in a variety of CTE Pathways in both of those areas. Please talk with your high school CTE coordinator for details.***
Audio Essentials CE (Full year – 1 credit)	**UVU: DGM 2130** (Digital Audio Essentials) – 3 credits	**Prerequisite:** *Sec Math 1 Honors or Sec Math 2 AND Digital Media 1 (can be taken at same time)*	
Digital Media 2 (Full year – 1 credit)		**Prerequisite:** *Digital Media 1* This course is paired with 3D Graphics & Animation but can also be taken as a stand-alone class on either A5 or B5.	
Gaming App Dev Fund CE (Semester – .5 credit)	**UVU: DGM 1610** (Scripting for Animation and Games) - 3 credits	**Prerequisite:** *Digital Media 1 or CS Principles, or Comp Prog 1 (can be taken at same time)*	
HTML 5 CE (Semester – .5 credit)	**UVU: DGM 1600** (Introduction to Scripting) - 3 credits	**Prerequisite:** *Digital Media 1 or CS Principles, or Comp Prog 1 (can be taken at same time)*	
Radio Broadcasting 1 (1st Semester - .5 cr)			
Radio Broadcasting 2 (2nd Semester - .5 cr)		**Prerequisite:** *Radio Broadcasting 1*	
TV Broadcasting 2 CE BLOCK (Blocked for 2 periods in one Semester)	**UVU: DGM 1520** (Corporate & Documentary Production) – 3 credits	**Prerequisite:** *TV Broadcasting 1 or Video Prod 1*	
3D GRAPHICS/ANIMATION BLOCK - *These courses are BLOCKED TOGETHER for 2 periods*			
Course 1: Digital Media 2 (Full year – 1 credit) **Course 2A:** **3D Graphics** (1st Semester – .5 credit) **Course 2B:** **3D Animation** (2nd Semester - .5 credit)	**UVU: DGM 1660** (Introduction to 3D Modeling and Surfacing) - 3 credits **UVU:** DGM 1620 (Survey of Animation) - 3 credits	**Required:** *Digital Media 1* *To qualify for college credit, students must have previously taken Digital Media 1 for CE credit.*	
ELEMENTARY TEACHER EDUCATION			
TEACHER EDUCATION BLOCK - *These courses are BLOCKED TOGETHER for 2 periods*			*In this two-course series, students will be involved in elementary educational experiences throughout the district. The series will include class instruction, guest speakers, visiting and observing classrooms, lesson prep, and instructional experiences. Students will also be prepared to engage elementary children in appropriate technology activities.*
Course 1: Intro to Education CE **Course 2: Computer Technology in Education CE**	**UVU: EDEL 1010** (Introduction to Education) - 2 credits **UVU: EDEL 2200** (Computer Technology in Education) - 2 credits	**Required:** *For juniors and seniors only.* **NOTE: *Students will need to be able to provide their own transportation between schools.***	

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ENGINEERING & TECHNOLOGY			
Architecture Design 1 (Semester - .5 credit)	**UVU: EGDT 1090** (*Introduction to Architecture Drafting*) – 2 credits		Our Engineering & Technology program provides foundational knowledge and experience for students interested in architecture, engineering, manufacturing, and/or robotics. Our courses will encourage students to engage in design thinking, as they collaborate on real world projects. Suggested 1st Year Course Options: ▸ Intro to Engineering Design ▸ Architecture Design 1 ▸ Robotics ▸ Manufacturing Suggested 2nd Year Course Options: ▸ Engineering Principles 1 & 2 ▸ Civil Engineering & Architecture ▸ Senior Capstone – Engineering Design & Development ***These classes are in the area of Engineering & Technology Education and help students fulfill CTE pathways in CAD Mechanical Design, Mechanical Engineering, and/or Robotics.*** In our new Civil Engineering & Architecture class, students will learn important aspects of building and site design and development. They will apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.
Civil Engineering & Architecture PLTW (Full Year – 1 credit)		**Prerequisite**: *Architecture 1*	
Engineering Principles 1 (Semester - .5 credit) (**1st Sem**)		**Recommended**: *Previous CAD or Engineering experience*	
Engineering Principles 2 CE (Semester - .5 credit) (**2nd Sem**)	**WSU: ENGR 1000** (*Intro to Engineering*) – 2 credits	**Prerequisite**: *Engineering Principles 1*	
Introduction to Engineering Design CE (Full year – 1 credit)	**UVU: EGDT 1040** (*Computer Aided Drafting AutoCAD*) – 3 cr		
Manufacturing Principles 1 (Semester - .5 credit)			
Robotics 1 (Semester - .5 credit)			
SENIOR CAPSTONE BLOCK: Engineering Design & Development (Semester – 1 credit) (Blocked for 2 periods for one Semester)		**Prerequisite:** *Students must be a senior and have taken either Intro to Engineering Design or CAD Mechanical Design*	
HEALTH SCIENCE			
Emergency Medical Responder CE (Semester – .5 credit)	**UVU: HLTH 1200** (*First Aid*) - 2 credits	**Required**: *For juniors and seniors, sophomores by exception.*	***These classes are in the area of Health Science Education and can help students fulfill a variety of CTE pathways.*** Please follow required prerequisites for all Health Science courses. ***The Adv. Health Science block is scheduled for both the A and B time slots in a given period and usually taken with another Health Science or ALC class.***
Medical Terminology CE (Semester – .5 credit)	**UVU: HLTH 1300** (*Medical Terminology*) - 2 credits	**Required**: *For juniors and seniors, sophomores by exception.*	
Medical Forensics CE (Full Year – 1 credit)	**UVU: CJ 1350** (*Intro to Forensic Science*) – 3 credits	**Required**: *For juniors and seniors, sophomores by exception.*	
ADV. HEALTH SCIENCE BLOCK - *DOUBLE BLOCKED A & B periods - Full Year*			
Adv. Health Science: Medical Anatomy & Physiology CE (Full Year – 2 credits)	**WSU: HTHS 1110** (*Integrated Human Anatomy & Physiology-Part 1*) – 4 credits **WSU: HTHS 1111** (*Integrated Human Anatomy & Physiology-Part 2*) – 4 credits	**Required**: For *SENIORS only, Medical Anatomy, Chemistry or AP Chemistry, and Biology or AP Biology*	

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COURSES	C.E. COLLEGE CREDITS & INDUSTRY CERTIFICATION	COURSE PREREQUISITES	DESCRIPTION/RECOMMENDED COURSE SEQUENCE
EARLY COLLEGE *(fulfills both high school & college G.E. or major requirements)*			
NOTE: All Early College classes listed below (except for HIST 1700 & SOC 1010) are accelerated. Since students will earn 1 full high school credit in a semester time, students will be expected to put in extra time outside of class in order to complete the school work required for these classes.			
COLLEGE WRITING BLOCK - *Two-Courses BLOCKED TOGETHER for ONE period - Full Year*			
Course 1: ENGL 1010 Intro to Writing CE (1st Semester – 1 credit) **Course 2: ENGL 2010 Intermediate Writing CE** (2nd Semester – 1 credit)	**UVU: ENGL 1010** *(Introduction to Writing)* - 3 credits **UVU: ENGL 2010** *(Intermediate Writing)* - 3 credits	**Required**: *ACT or Accuplacer exam placement score - SENIORS ONLY* **Required for ENGL 2010**: *Completion of ENGL 1010 with a grade of C- or better*	*Fulfills both high school Language Arts and college G.E. requirements.* *Counts towards the Regents Scholarship.*
COMM 1020 Public Speaking CE (Semester – 1 credit)	**UVU: COMM 1020** *(Public Speaking)*	**Required**: *Juniors and Seniors only*	*Fulfills both a high school Language Arts requirement & a Humanities college G.E. and/or major requirement*
COMM 1050 Speech Comm CE (Semester – 1 credit)	**UVU: COMM 1050** *(Intro to Speech Communication)*	**Required**: *Juniors and Seniors only*	*Fulfills both a high school Language Arts requirement & a Humanities college G.E. and/or major requirement*
HIST 1700 American Civilization/ US History CE (Full Year – 1 credit)	**UVU: HIST 1700** *(American Civilization)* – 3 credits	**Required**: *For Juniors & Seniors, Sophomores by exception who are in English Honors in 9th grade. (Then screened later with a qualifying exam.)*	*Fulfills both high school US Studies & college G.E. requirements*
PSY 1010 Psychology CE (Semester – 1 credit)	**UVU: PSY 1010** *(General Psychology)* – 3 credits	**Required**: *For Juniors & Seniors*	***For students going to Nursing, we encourage students to take both PSY 1010 & PSY 1100****. Some colleges require both as prerequisites for their Nursing program, and some require one while others require the other course. Since most students when graduating from high school do not know which college nursing or other pre-health program they will get accepted into, students will be able to complete both while still in high school.* ***PSY 1010 also is required by most Medical Schools and fulfills a Social Science requirement for the Regents Scholarship, while PSY 1100 is a major requirement for most college Elementary Education programs.***
PSY 1100 Human Dev CE (Semester – 1 credit)	**UVU: PSY 1100** *(Human Development Life Span)* - 3 credits	**Required**: *For Juniors & Seniors*	*Fulfills high school Soc Studies & college G.E. requirements and/or major requirements for Nursing, Elementary Education, etc.*
SOC 1010 Sociology CE (Full Year – 1 credit)	**UVU: SOC 1010** *(Intro to Sociology)* – 3 credits	**Required**: *For Juniors & Seniors*	*Fulfills high school Soc Studies & college G.E. and/or requirements; also qualifies for Regents Scholarship and required by most Medical Schools*
LIVE INTERACTIVE *(UVU College Classes from a Distance)*			

Live Interactive courses are another way to earn both high school and college credit concurrently. These courses are broadcasted from UVU in real time to an ALC classroom but taught by a UVU professor. Courses fulfill G.E. and/or major requirements at most colleges and universities. However, courses are not on the Nebo schedule and calendar, which makes it a little harder to fit in a normal high school A/B schedule but very doable, especially for your senior year. Please talk to our ALC counselor for information and scheduling questions.

We currently offer over 25 courses each semester. Go to our ALC website at: http://alc.nebo.edu/ for a current list of classes and course descriptions. Here are some that fulfill HS core graduation requirements:

ART 1010 - Introduction to Visual Arts	ENGLISH 1010 - Intro to Writing	MUSC 1030 - American Popular Music
ASTR 1040 - Elementary Astronomy	ENGLISH 2010 - Intermediate Writing	POLS 1100 - American National Government
BIOL 1010 – General Biology	GEOL 1010 - Introduction to Geology	THEA 1013 - Introduction to Theatre
COMM 1020 - Public Speaking	METO 1010 - Introduction to Meteorology	THEA 1023 - Introduction to Film
COMM 2110 - Interpersonal Communication	MUSC 1010 - Introduction to Music	

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