DaVinci Academy of Science and the Arts
Course Catalog

2018-2019
Table of Contents:

Frequently Asked Questions 3
Graduation Cord Requirements 4
Advisory/College-Readiness Curriculum 5
Language Arts 6
Science 9
Mathematics 14
Social Studies 18
Fine Arts 21
Foreign Language 28
Career/Technical 30
OWATC Courses 34
Physical/Health 39
Other Electives 41
Online Classes 42
Frequently Asked Questions

What do I need for graduation?
DaVinci Graduation Requirements:

- 4 years of Language arts (9, 10, 11, 12)
- 4 years of Math (must include Secondary Math I, II, III)
- 4 years of Science (3 core, 1 elective)
- 3 years of Social Studies
- 2 years of PE and Health (4 classes, 1 semester each)
- 2 years of Fine Arts (theatre, music, art)
- 1 year of CTE (Career and Technical Education)
- ½ year of Financial Literacy
- ½ year of Exploring Computer Science or Business Applications
- 2.5 credits (4 years) of Advisory Credit
- 2.5-5.0 elective credits

What about scholarship opportunities?
Here are a couple of things to consider when it comes to scholarships: There are two basic kinds of scholarships, private scholarships offered by private individuals or companies and academic scholarships offered by institutions (colleges and universities). Service is a big component and a large factor in getting many of these scholarships; becoming involved in organizations and clubs can make a difference for many scholarship applications. Writing skills are critical when filling out scholarship applications so work on your writing skills diligently. The best advice for earning scholarships is to take the most rigorous class schedule you can and be successful. Start early and continue searching through your senior year for scholarship offers and apply! The more applications you fill out the better you get at it and the better your chances of earning scholarship money.

What about the Regents Scholarship or the New Century Scholarship?
Four factors you need to consider for the “Regents Scholarship” are: 1) you must have 4 years of English 2) you must have 4 years of sequential math, 3) you must have 2 years of sequential foreign language 4) you must have three years of a lab science and they must include biology, chemistry and physics, 5) you must have a GPA of 3.0 to meet requirements for the base award and a 3.5 to meet the requirements for the exemplary award. 6) You must have an ACT score to qualify for the base award and your score must be 26 or higher to qualify for the exemplary ward. Dollar amounts change annually as the state legislature has the funds for the scholarship. You can go to https://stepuputah.com/regentsscholarship/ to check out the requirements for these scholarships in more detail or simply check with the counseling center.

What is more important GPA or tough classes when getting into college?
A representative from Stanford University once made the following comment to me as I attended a conference when asked this very question. “It is best if a student takes the very hardest classes possible and get all A’s”. Unfortunately, this is not always possible so you must maintain a good balance. GPA is very important but if you never take difficult rigorous classes such as AP or CE courses, you will not be prepared for the rigors of college! The most successful students in college are those who take a rigorous course selection in high school. Students who do not take rigorous classes in high school are 60% less likely to complete a college degree. So even if you have a high GPA and get into college, the classes will be so much more difficult than you are used to that you are 60% more likely to just drop out. Don’t let that be you! Balance your class schedule with classes that will challenge you (AP, honors and CE) and prepare you for success in college while maintaining your grades.
## DaVinci Academy Graduation Cord Requirements

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<tr>
<th>CTE</th>
<th>ENGLISH LANGUAGE ARTS</th>
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<tr>
<td>- Receive a certification from a Tech College</td>
<td>- 3.3 GPA in Language Arts courses (9th-12th grade)</td>
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<td>- Successful completion of AP Language</td>
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<td>- Successful completion of AP Literature</td>
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<td>- Achieve at least a 3.5 GPA in all science classes</td>
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<td>MATH</td>
<td>- Pass an AP math class with a B- or higher or equivalent college class</td>
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<td>SCIENCE</td>
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<td>- Complete 2 out of the following courses: Biology, Physics, Chemistry</td>
<td>- Plan, organize, and participate in a solo or group art show during the student’s</td>
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<td>- Complete an AP Science class</td>
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<td>- Achieve at least a 3.5 GPA in all science classes</td>
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<td>- Complete Senior Capstone project with a science related topic</td>
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<td>- Plan, organize, and participate in one of the four STEM activities during senior</td>
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<td>SOCIAL STUDIES</td>
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<td>- Cumulative GPA of at least 3.5 in all Social Studies classes, including any electives</td>
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<td>- Overall GPA of at least 3.0</td>
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<td>- Complete all 3 AP Social Studies Classes:</td>
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<td>- AP European History</td>
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<td>- AP United States History</td>
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<td>- AP United States Government</td>
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<td>- Complete all three AP Exams</td>
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<td>- Score at least a “3” on the AP European History or AP US History Exams</td>
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<td>ATHLETICS</td>
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<td>- 3.5 GPA in PE courses (9th-12th grade)</td>
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<td>- Senior Capstone completion in a project related to health/physical education</td>
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<td>- Earned at least 6 Athletic Letters (total) in at least two different sports during high school (9th-12th grade).</td>
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Advisory/College-Readiness Curriculum
The goal of DASA advisory is to build strong academic relationships between students and advisors and to assist students in academic, social, and emotional development by providing an environment of trust and hard work. It is also charged with helping students build college portfolios, apply for scholarships, improve their writing, and keep students focused on getting to college.

Students will be involved in the advisory selection process.

I. Community Awareness: school, local, city, global
   a. Students will actively and willingly participate in various aspects of maintaining a positive and supportive school community.
   b. Students will actively and willingly participate in local community projects. This standard implies a high degree of self-motivation and dependability.

II. Skills of Scholarship: time management, study skills, social skills
   a. Students will develop strong time management skills, working at first from a planner and eventually developing an independent means of managing multiple projects.
   b. Students will develop strong study skills as they practice and discuss memorization techniques, critical thinking skills, as well as verbal and written articulation.
   c. Students will develop strong academic/social skills including appropriate classroom behavior, email etiquette as well as conversational skills.

III. Career/College Planning: career exploration, college applications, etc.
   a. Students from grades 7th through 10th will be taught how to prepare for college through the AVID college-ready curriculum. Each year students will build off prior note-taking and organizational skills that they will apply in all classrooms. Students will be regularly evaluated on these skills.
   b. Students will participate in college exploration.

IV. Academic Success: grades, goals, plans, and projects
   a. Instructors will evaluate student grades on a weekly basis and make referrals for appropriate remediation and/or intervention strategies based on class and individual discussions with students.
   b. Students will set short and long-term academic and professional goals and work toward those goals in a strategic manner which they will report and discuss with their advisor.
LANGUAGE ARTS:

9472  Language Arts 7  Year  Language Arts
Grade 7
Students will focus on developing and strengthening skills and strategies necessary for effective communication at a grade appropriate level of expectation. Refining and magnifying the skills described in the Utah State Core Standards, they will improve their expertise in reading, writing, speaking, listening, and language usage.

9473  Language Arts 7 Pre-AP  Year  Language Arts
Grade 7
Students will gain advanced skills and strategies necessary for proficient communication in reading, writing, speaking, listening, and language usage. Magnifying the skills described in the Utah State Core Standards, they will pursue individual literacy interests and projects using creative and critical thinking at a more in-depth level than in a core class. Rigorous class work will prepare students for high school honors classes.

9483  Language Arts 8  Year  Language Arts
Grade 8
Students will focus on developing and strengthening skills and strategies necessary for effective communication at a grade appropriate level of expectation. Refining and magnifying the skills described in the State Core, they will improve their expertise in reading, writing, speaking, listening, and language usage.

9482  Language Arts 8 Pre-AP  Year  Language Arts
Grade 8
Students will enhance skills and strategies necessary for proficient communication in reading, writing, speaking, listening, and language usage. Magnifying the skills described in the Utah Core State Standards, they will pursue individual literacy interests and projects using creative and critical thinking at a more in-depth level than in a core class. Rigorous class work will prepare students for high school honors classes.

4010  Language Arts 9  Year  Language Arts
Grade 9
In this course, we will study novels, plays, poetry, and articles as a means of improving critical thinking, reading comprehension, vocabulary, and written expression. Through written, audio, and video recordings, students share their reactions to the characters, themes, and issues of the works studied. Grammar, vocabulary, symbolism, plot points, and character development are among the language and literary techniques which students will study in this course. Throughout the course, students will make connections between the themes and characters of literature, and the events and interactions of their own lives.
Fee:

4011  Language Arts 9 Pre-AP  Year  Language Arts
Grade 9
Ninth Grade Language Arts Pre-AP students are engaged learners who possess beyond-grade-level reading and writing abilities as well as critical thinking skills, self-motivation, organization and the capability of maintaining a rigorous pace.
Prerequisite: Teacher Approval
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<th>Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Department</th>
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<tr>
<td>4005</td>
<td>Language Arts 10</td>
<td>Year</td>
<td>Language Arts</td>
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<td>Grade 10</td>
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<td>Tenth Grade Language Arts is the core class that most students should take during their sophomore year. The course focuses on reading, writing, vocabulary development, and overall high school literacy skills. Class activities include literary study, individual reading, developing reading skills for fiction and nonfiction, informal writing to learn, formal essay writing, vocabulary study, and other class discussions.</td>
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<td>4006</td>
<td>Language Arts 10 Pre-AP</td>
<td>Year</td>
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<td>Pre-AP will cover much of the same material as the core class, but this course is for students who want a greater challenge. Students will be expected to read outside of class, complete assigned homework, and participate on an advanced level in class activities.</td>
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<td>4095</td>
<td>Language Arts 11</td>
<td>Year</td>
<td>Language Arts</td>
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<td>Grade 11</td>
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<td>Eleventh Grade Language Arts is the core class for most students during their junior year. This course focuses on critical reading, writing, interpretation, and discussion, with a focus on American literature, both fiction and nonfiction. Class activities include literary study, individual reading, developing reading skills for fiction and nonfiction, informal writing to learn, formal essay writing, vocabulary study, and other class discussions.</td>
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<td>4086</td>
<td>AP Language and Comp 11</td>
<td>Year</td>
<td>Language Arts</td>
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<td>In AP English, students will have the opportunity to participate in and complete college-level academic work while studying some of the greatest literature produced throughout human history. Additionally, students will develop study habits, critical reading skills, analytical reading and writing skills, and critical thinking. Passing the AP test given in May will allow students to earn college credits while still in high school.</td>
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<td>4070</td>
<td>Language Arts 12</td>
<td>Year</td>
<td>Language Arts</td>
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<td>Grade 12</td>
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<td>Language Arts 12 emphasizes reading and writing for post-high school. Students will read from a variety of literary and nonfiction sources, write both formally and informally, and learn valuable language skills that will serve them in their post-high school pursuits.</td>
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<td>4085</td>
<td>AP Literature and Comp 12</td>
<td>Year</td>
<td>Language Arts</td>
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<td>Grade 12</td>
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<td>In AP English, students will have the opportunity to participate in and complete college-level academic work while studying some of the greatest literature produced throughout human history. Additionally, students will develop study habits, critical reading skills, analytical reading and writing skills, and critical thinking. Passing the AP test given in May will allow students to earn college credits while still in high school.</td>
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<td>4025</td>
<td>Creative Writing A</td>
<td>Semester</td>
<td>Language Arts</td>
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<td>Grades 7-12</td>
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<td>Students in this class will study creative writing in a variety of forms. Students will develop characters, story lines, and dialogue. Students will design scenes, costumes, and through a series of workshops, present each other’s work. The final project in this course is a short play. The class’s best work will be presented at an assembly or evening performance.</td>
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4030 Creative Writing B  Semester  English
Grades 7-12
This course is designed to teach and practice the art of creative writing. We will study the 6+1 traits, in particular word choice and voice, discover story arcs, character development, settings and themes. Be prepared to write almost daily, to have your favorite books in hand and to be prepared to go outside and explore the stories taking place all around us.

4056 Reading Intervention  Year  English
Grades 7-12
Our reading workshop is designed to make our students the best readers possible. We push the student, no matter their level at the start of the year, to make huge gains in his or her reading ability. As reading is foundational to success in other subjects, in college, and for all careers, there is no more foundational skill. We are here to help you become master readers, even if you’ve never felt that was possible.

4040 Publications/Yearbook  Year  Language Arts
Grades 7-12
Hands-on course for students with a limited background in graphic design. Emphasis on basic strategies for visual problem-solving and techniques for preparing comprehensive layouts. Students will work as a team to design and publish the school newspaper and the yearbook. Students will become proficient in InDesign in a Mac environment. Students will also learn the importance of meeting deadlines as well as quality of work and integrity in reporting, as these publications leave lasting impressions on the DASA Community.

4045 Advanced Grammar  Semester  Language Arts
Grades 9-12
The primary purpose of this course is for students to become more confident and effective in their speaking and writing as they master the conventions of standard English.
Students will do the following in the course:
1. Review (or learn for the first time) the parts of speech.
2. Learn the basic patterns of English (phrases and clauses) and understand how those patterns affect punctuation, pronoun selection, and subject/verb agreement.
3. Identify the patterns of phrases and clauses in exceptional writing, discuss why the writers chose those patterns, and practice modeling those patterns in their own writing.
4. Distinguish between often confused words; examples are effect/affect, it's/its, loose/lose.
5. Learn terms associated with language; examples are idioms, cohesion, etymology, active/passive voice, connotation/denotation, abstract/concrete, appositive, antecedent, and parallelism.
6. Develop a piece of writing over the course of the semester in which they demonstrate mastery of various aspects of grammatical conventions.

4091 Young Adult Literature  Semester  Language Arts
Grades 8-12
Literature written for and marketed to young adults. Young adult literature is usually given the birth date of 1968 with the advent of S.E. Hinton's The Outsiders. Other forms of literature prior to this date may have had young adult protagonists (such as The Adventures of Huckleberry Finn), but they were usually intended for an adult audience.
SCIENCE:

9376 Science 7 Pre-AP Year Science
Grades 7
The seventh grade SEEd standards look for relationships of cause and effect which enable students to pinpoint mechanisms of nature and allow them to make predictions. Students will explore how forces can cause changes in motion and are responsible for the transfer of energy and the cycling of matter. This takes place within and between a wide variety of systems, from simple, short-term forces on individual objects to the deep, long-term forces that shape our planet. In turn, Earth's environments provide the conditions for life as we know it. Organisms survive and reproduce only to the extent that their own mechanisms and adaptations allow. Evidence for the evolutionary histories of life on Earth is provided through the fossil record, similarities in the various structures among species, organism development, and genetic similarities across all organisms. Additionally, mechanisms shaping Earth are understood as forces affecting the cycling of Earth's materials. Questions about cause and effect and the ongoing search for evidence in science, or science's ongoing search for evidence, drive this storyline. - uen.org

9376 Science 8 Pre-AP Year Science
Grades 8
The eighth grade SEEd standards describe the constant interaction of matter and energy in nature. Students will explore how matter is arranged into either simple or complex substances. The strands emphasize how substances store and transfer energy, which can cause them to interact physically and chemically, provide energy to living organisms, or be harnessed and used by humans. Matter and energy cycle and change in ecosystems through processes that occur during photosynthesis and cellular respiration. Additionally, substances that provide a benefit to organisms, including humans, are unevenly distributed on Earth due to geologic and atmospheric systems. Some resources form quickly, allowing them to be renewable, while other resources are nonrenewable. Evidence reveals that Earth systems change and affect ecosystems and organisms in positive and negative ways. - uen.org

3055 Earth Systems Year Science
Grade 9
Course curriculum includes the structure and processes on Earth, including plate tectonics, volcanoes, earthquakes, weather and meteorology, ocean and wind currents, weathering and erosion. Throughout this course students experience science as a way of knowing based on making observations, gathering data, designing experiments, making inferences, drawing conclusions communicating results. Students see that the science concepts apply to their lives and their society.

3050 Biology Year Science
Grades 9-11
The Biology course is a full-year course at the high school level. The course involves the scientific study of living organisms. We consider the interactions among the vast number of organisms that inhabit planet Earth. We will discover the basic form and function of these organisms, from cells to organ systems, from single-celled organisms to complex humans. It delves into interactions between organisms, and between an organism and its environment. We will also look into how biotechnology is used to improve our health and daily lives.
3500 Chemistry Year Science
Grades 10-12
Matter on Earth and in the universe is made up of atoms that have structure, mass and a common origin. The periodic table is used to organize the elements by structure and a relationship exists between the chemical behavior and the structure of atoms. In general chemistry, students will be exposed to the study of matter, electrons, chemical reactions, and other areas of chemical science through math, laboratory investigations and inquiry.
Prerequisites: Biology and Secondary Math I

3505 Honors Chemistry Year Science
Grades 10-12
Matter on Earth and in the universe is made up of atoms that have structure, mass and a common origin. The periodic table is used to organize the elements by structure and a relationship exists between the chemical behavior and the structure of atoms. In honors chemistry, students will be exposed not only to the study of matter, electrons, chemical reactions, but also to higher level topics such as thermochemistry, electrochemistry and organic chemistry. All this will be done through math, laboratory investigations and inquiry. Students will also be expected to move at a faster pace and do more laboratory investigations which will be more in depth. We will explore topics that will launch us closer to the AP curriculum. This class is designed for students that will do studying outside of class time, that will put forth the effort to learn material on their own and come with questions about the big picture and how all science relates.
Prerequisites: Biology, Secondary Math I (Must have a 3 or 4 on the SAGE Test), MUST have approval signatures of Biology AND Math teacher.

3450 AP Chemistry Year Science
Grades 11-12
This is an advanced placement course designed to prepare the student for the AP Chemistry exam. The course covers the equivalent of one full year of college level General Chemistry, comparable to a first year course at a college or university. The course is a rigorous math-based course, with a strong laboratory component. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments outside of class, and who have successfully completed a prior course in chemistry during high school. The course will develop the student's ability to incorporate mathematical skills in the solution of chemistry problems, both through the use of textbook problems and laboratory activities. Significant emphasis will be placed on developing the student's ability to solve problems through dimensional analysis and estimation. Students will be required to do extensive writing, and to keep a thorough and accurate ongoing laboratory notebook.
Prerequisites: Biology, Chemistry, Secondary Math II.

3033 Physics with Technology Year Science
Grades 9-12
A STEM course that emphasizes a hands-on learning approach to studying the principles of force, work, rate, resistance, and energy as they relate to four energy systems (mechanical, fluid, electrical, and thermal). A significant portion of time in this course is spent in lab activities that are structured to provide essential skills for students interested in technical and engineering professions. Participation in the Technology Student Association (TSA) is encouraged. Previous completion of Secondary Math 1 is suggested. The course fills either a core science or a CTE elective credit requirement.
**3251  AP Physics I**  
**Year** Science  
**Grades 11-12**  
AP Physics 1 is the equivalent of the first semester of an introductory algebra-based college course in physics. Students will explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. The course is based on six "Big Ideas" that provide a broad way of thinking about the physical world.  
Prerequisite: Secondary Math II, Biology

**3111  Anatomy/Physiology**  
**Semester** Science  
**Grades 9-12**  
Human Anatomy and Physiology is a laboratory-based course that investigates the structure and function of the human body. Topics covered will include the basic organization of the body; biochemical composition; and major body systems along with the impact of diseases on certain systems. Students will engage in many topics and competencies related to truly understanding the structure and function of the human body. Working from the topics of basic anatomical terminology to the biochemical composition of the human body, all the way into great detail of each of the major systems of the body, students will learn through reading materials, study guides, unit worksheets, group work, projects, and labs. High levels of achievement will be in effect. Students will be responsible for proper use of lab equipment, lab reports, and projects assigned throughout each unit. One of the goals of this course is to prepare students with the skills necessary to be successful in future science classes in college.

**3150  Astronomy A**  
**Semester** Science  
**Grades 9-12**  
Astronomy 1 is a one semester course that starts with our ancient astronomy and the constellations. Students will look at the stars from the perspective of various ancient cultures. What is Stonehenge? When did the Mayan calendar end and why? Students learn to explain such phenomena as the day, the year, phases of the Moon, seasons, and eclipses. Students will build a sundial, build a telescope, and figure out the distance of stars using simple tools. They will research and learn about the formation and make-up of our solar system including planets, moons, and why Pluto was demoted. Students will learn how gravity and Kepler's laws can be used to predict the motion of objects and collisions in space. We will look at the vast structure of the universe and the galaxies, nebula, stars, and phenomena that we have discovered.

**3151  Astronomy B**  
**Semester** Science  
**Grades 9-12**  
Astronomy 2 looks at the impact of the space program on modern society. Astronomy has vastly improving the understanding of the Earth, weather, astronomy, energy, medicine, and science. The space program uses the engineering design process to build spacecraft applying concepts of physics such as center of gravity, center of pressure, aerodynamics, lift, and drag. Early spacecraft designs were simple evolving into the most complicated machines ever built. Modern Astronomy will also look at some of the new and yet not fully understood phenomena in space such as black holes, pulsars, quasars, dark matter, dark energy and more.

**3020  Wildlife Biology**  
**Semester** Science  
**Grades 9-12**  
Wildlife Biology is a semester course and will be a hands-on course with attention to mathematical modelling, such that wildlife biologists use. It is designed to introduce students to mammalogy, animal behavior, population genetics, and population evolution. We will study the diversity of populations as well as the effects of loss of biodiversity and changes in populations.
Aquatic Biology

Marine Biology is a semester course and will be a hands-on, field work based course. It is designed to introduce students to aquatic ecosystems, including freshwater, saltwater, and brackish environments. We will study the diversity of aquatic organisms as well as the effects of water on the planet. In addition to biology, we will cover the basic concepts of oceanography and river structure. Be prepared to get dirty and be outside no matter the weather!

Zoology

Zoology is a semester course. This course is not a SAGE tested course and therefore will not rely so much on classroom lectures, but more on knowledge of the science, classification of animals, and identification of internal structures. This course will be hands-on and lab oriented, however some reading and homework outside of class will be required. Be prepared for dissections every week.
Prerequisite: Biology is helpful, but not necessary

AP Biology

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions.
Prerequisites: Biology AND Chemistry, or Biology and Chemistry concurrent

Botany

Botany is a semester course. This course is not a SAGE tested course and therefore will not rely so much on classroom lectures, but more on knowledge of the science, field identification, and human uses of plants. This course will be hands-on and field work oriented. We will collect samples, classify plants of Utah, and learn strange and amazing facts about plants. Be prepared to get dirty and be outside no matter the weather!

Chemistry of Ceramics

In this course students will have a unique opportunity to learn about chemistry in the realm of ceramics. This is a lab based class where students will learn to design their own glaze.

Intro to Laboratory Science

Most science careers require that you understand your way around a laboratory. With the construction of a new laboratory, come learn how to manage and work in a laboratory. Learn techniques of glassware, making solutions, cleaning and maintaining a lab, and much more. With this information under your belt, you should be able to edge out above the rest in getting a job in your college science stock room, because you know what to do! Come learn!
Environmental Science  
Grades 9-12  
Students will develop awareness of the consequences of the impact of our modern lives upon our environments, from the Industrial Revolution to the present, and how we respond to issues related to threats to our biological life-support system. Our class will develop a definition of a quality environment, and the current quality of our environment will be compared to this definition. Class will include assigned readings, online and live discussions, and live labs, which will aid our identification of successes and shortcomings in sustainability. These solutions will culminate in the completion of a semester community project which applies a possible solution and gives back to our human and ecological communities. Projects can include working with an organization outside of DaVinci Academy in a service intern capacity, creating an educational presentation or program to share with a community group or DaVinci class or club, or can take a measured and consistent leadership role in running the Green Dragons Conservation Club.

Modern Physics  
Grades 9-12  
Ever wonder what relativity really is? This course will talk about topics like string theory, particle physics, black holes, etc. From quarks to quasars, what discoveries have changed our view of the world in the last 100 years.

Physics of Medieval Siege Weapons (Aeronautics I)  
Grades 9-12  
Introductory high school level class which students will study and build medieval siege weapons using the engineering design process to design and build items that can be used in the real world. Student will apply physics in a practical way to calculate and improve precision and accuracy of their devices.

Physics of Flight (Aeronautics II)  
Grades 9-12  
Introductory high school level class which students will study and build various forms of gliders and propeller driven flying objects using the engineering design process to design and build items that can be used in the real world. Student will apply physics in a practical way to calculate and improve precision and accuracy of their devices.

Current Issues in Science  
Grades 10-12  
CI in Science is a semester course, but can be taken twice for a full credit. Have you ever wanted to know about what are current areas of study in the world of science? Have you heard about innovations on the radio/tv/social media that you are wondering about? Let’s explore your questions and the ever-changing world of scientific discovery! Class structure will consist of lecture, research, writing summaries of articles, discussions of controversial topics and many more!

Pre-Requisites: Biology, Earth Systems and/or Intro to Physics
**MATHEMATICS:**

Students can earn Pre-AP credit in Secondary I, II, and III, by completing the associated, teacher-assigned tasks for Pre-AP credit. Credit is earned on a quarterly-basis only by completing all Pre-AP assignments and/or exams for that quarter. Pre-AP credit can only be earned up until the last day of the quarter.

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Year</th>
<th>Mathematics</th>
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<tr>
<td>9575</td>
<td>CC Mathematics 7</td>
<td>Grade 7</td>
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<td>In grade 7, instructional time should focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.</td>
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<tbody>
<tr>
<td>9580</td>
<td>CC Mathematics 8</td>
<td>Grade 8</td>
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<td>In 8th Grade Mathematics students will focus on formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; grasping the concept of a function and using functions to describe quantitative relationships; and analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>5555</td>
<td>Secondary Math I</td>
<td>Grade 9</td>
<td>Mathematics</td>
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<td>Students taking this class will deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomenon, and in part by applying linear models to data that exhibit a linear trend. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas are tied together. Students will experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.</td>
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<tbody>
<tr>
<td>5556</td>
<td>Secondary Math I Pre-AP</td>
<td>Grade 9</td>
<td>Mathematics</td>
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<td>Students in Secondary Mathematics I Honors will deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomenon, and in part by applying linear models to data that exhibit a linear trend. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas are tied together. Students will experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Honors students will represent quantities, model, and perform operations using vectors and use matrices to perform operations and solve problems.</td>
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5565  Secondary Math II  Year  Mathematics
Grade 10
This course is the continuation of Secondary Math 1. The focus in this course is on quadratic expressions, equations and functions and comparing them to linear and exponential relationships. Real and complex numbers will be explored more. Similarity will be studied including right triangle trigonometry. Quadratics will be further explored with connections to the Pythagorean Theorem and equations of circles. The link between probability and data will be explored through conditional probability and counting methods. This class will prepare students to take Secondary Math 3.
Prerequisite: Secondary Math 1

5566  Secondary Math II Pre-AP  Year  Mathematics
Grade 10
This course is the same as Secondary Math 2 but at an accelerated pace so that more Pre-Calculus ideas can be incorporated in. A student taking the honors courses all three years will be ready to take Calculus as a senior.

5575  Secondary Math III  Year  Mathematics
Grade 11
In this course students will combine topics learned from previous courses. They will apply methods from probability and statistics to draw inferences and conclusions from data. Students will continue their study of functions including polynomial, rational, and radical functions. They will expand their study of right triangle trigonometry to include general triangles. Finally, students will bring together all their experience with functions and geometry to create models and solve contextual problems.

5576  Secondary Math III Pre-AP  Year  Mathematics
Grade 11
In this course students will combine topics learned from previous honors courses. They will apply methods from probability and statistics to draw inferences and conclusions from data. Students will continue their study of functions including polynomial, rational, and radical functions. They will expand their study of right triangle trigonometry to include general triangles. Other Pre-calculus ideas will also be explored. Finally, students will bring together all their experience with functions and geometry to create models and solve contextual problems. Successful completion of Secondary 1 Honors, Secondary 2 Honors and Secondary 3 Honors will prepare a student to take AP Calculus.

5850  AP Statistics  Year  Mathematics
Grade 12
This course is an Advanced Placement course that explores the ideas of probability, statistics and analysis of mathematical data. This course is for a college bound student who is not intending to take Calculus. Upon passing the AP test, a student may receive up to 8 semester hours of college credit (depending on the accepting institution).

5250  AP Calculus  Year  Mathematics
Grade 12
This is an Advanced Placement course covering the 1st semester of college level Differential and Integral Calculus. Topics include limits, continuity, differentiation, and integration with selected applications. Upon passing the AB advanced placement test, students may receive up to 8 semester hours of college credit, depending on the university.
5251  AP Calculus Lab  
Grade 12  
This class is intended to supplement the A.P. Calculus class. Students work on the concepts taught in A.P. Calculus with the teacher. The goal is for students to gain a deeper understanding and clarity of the material in A.P. Calculus that is needed to pass the A.P. Calculus Exam in May.

5350  College Prep Math  
Grade 12  
College Prep Math formalizes and reinforces from the Secondary Math series to provide students with the foundational skills and understanding prerequisite to College Algebra (1050). Students will reason abstractly and quantitatively while solving linear and quadratic equations and linear inequalities. They will effectively use polynomial and rational expressions and functions, radical, complex numbers, and exponential and logarithmic expressions and functions to model and solve mathematical problems. They will explore conic sections and represent parabolic data. Throughout this course, students will make sense of problems and preserve in solving them, use tools strategically, and attend to precision.

5123  Credit Recovery Math Lab  
Grades 9-12  
This class allows student to recover math credit from previous failed classes. Students work at their own pace and may work at home to speed up the process. Students must reach a certain percentage on Aleks to receive credit. Students do not automatically get credit for being in the class only once they reach their goal.

5125  Math Essentials Lab  
Grades 7-12  
This class helps students improve their math skills. If a student has a low math assessment score, teacher or administration may recommend math lab as a way to learn math skills that may have been missed in previous classes.

0500  OWATC Math 950, 990, 1010  
Grades 11-12  
Each of the courses articulates with Weber State University. Students can enroll at any time in these courses. Completion time for each of the courses depends on own pace and schedule. Scheduling for a minimum of six hours per week, students have approximately five months to complete Math 950 and Math 990 and approximately six and a half months to finish Math 1010.

The math courses are offered in a number of delivery methods in which you can elect to enroll: attend class on campus where you will study on your own with support from math instructors; the blended online option allows students to access both the on-campus classroom and the online content; and online courses, which is for the more independent student. Tests must be taken on campus in the math department during regular class hours.  
**Prerequisite:** Placement test or ACT math score
In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

This year long course is an in depth exploration of some topics covered in the regular curriculum as well as selected topics outside of the regular curriculum. It is intended to help students understand math concepts at a deeper level and see the beauty of mathematics. Topics include but are not limited to logic, combinatorics, graph theory, modular arithmetic, and number theory.

A semester long course looking at the development of math concepts from various countries such as Babylonia, Egypt, Syria, China, the Mayan cultures, as well as European influences. We will study some of the people that helped develop these concepts such as Pythagoras, Euclid, Rene Descarte, and Carl Friedrich Gauss. Understanding these perspectives will allow us to better understand the basic concepts we are studying in our regular math courses.

Students of all GPA levels will prepare for national competition in five subjects: Fine Arts, Social Science, Science, Math and Literature. The five subjects are generally centered around an annual theme. The theme for the 2018-2019 school year is: The 1960s. Students will also learn study skills and writing skills in this class. Students will be responsible for being available for competition during the Winter and Spring. Those that desire it may continue into Academic Decathlon in high school.

Pre-requisites: None
### SOCIAL STUDIES:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Grade</th>
<th>Semester/Course</th>
<th>Social Studies</th>
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<tbody>
<tr>
<td>9670</td>
<td>Utah History</td>
<td>7</td>
<td>Semester</td>
<td>Social Studies</td>
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<td>A required class, Utah Studies is designed to help students understand the State of Utah at a deeper level by reviewing Utah’s early history and particularly emphasizing Utah from statehood to the present. Students learn about Utah’s geography, history, economics and government at the state and county levels.</td>
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<tr>
<td>9680</td>
<td>US History 8</td>
<td>8</td>
<td>Year</td>
<td>Social Studies</td>
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<td>Eighth grade social studies is a survey course of United States History, emphasizing history from the early beginnings of the United States through the Civil War and Reconstruction. This course will include the following topics:</td>
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<td>o Age of Exploration and colonization</td>
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<td>o the role of geography in shaping United States History</td>
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<td>o the Declaration of Independence, the Constitution, and the freedoms they provide</td>
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<td>o Revolutionary War and its significance</td>
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<td>o beginnings of American government and political parties</td>
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<td>o industrialization</td>
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<td>o immigration and reform</td>
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<td>o impact of the Civil War upon America</td>
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<td>o Westward Movement and its effect on Native Americans</td>
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<td>o examples of good citizenship and loyalty to the ideals of our country in the lives of great Americans</td>
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<td>o the economic factors which have influenced historical outcomes</td>
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<td>This class emphasizes basic social studies skills, responsibilities of citizenship, economic factors which have influenced historical outcomes, and major current events.</td>
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<tr>
<td>6010</td>
<td>Geography for Life 9</td>
<td>9</td>
<td>Semester</td>
<td>Social Studies</td>
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<td>Students study five themes of location, place, human environment interaction, movement and regions. Geography impacts your own life and here students will learn how it can influence human behavior and the development of societies.</td>
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<tr>
<td>6015</td>
<td>AP Human Geography 9</td>
<td>9</td>
<td>Year</td>
<td>Social Studies</td>
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<td>AP Human Geography presents high school students with the curricular equivalent of an introductory college-level course in human geography and cultural geography. Students entering AP Human Geography should be capable of reading and comprehending texts written at college level as well as possess skills in written composition and inquiry (research). Content is presented thematically rather than regionally and is organized around the discipline’s main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction. By the end of the course, students should be more geoliterate, more engaged in contemporary global issues, and more multicultural in their viewpoints.</td>
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**World Civilization 10**

Grade 10

This course will include one term of ancient civilizations and one term of non-Western culture. In ancient civilizations the history, achievements, and contributions of ancient peoples will be analyzed by studying one or more of such great cultures as Egypt, Mesopotamia, Greece, Rome, American Indian, and Medieval Europe. The non-Western culture study will include one or more of the following: Africa, Latin America, China, India, Japan, Polynesia, World Religions, and Primitive Societies. This course will include one term of history relating to the development of the modern world and one term of current history. Important developments in history, science, industry, and culture from the 1350-1900 periods will be studied to develop an understanding of how the modern world evolved.

**AP European History**

Grade 10

This course studies European History from 1450 to the present. It introduces students to political, economic, cultural and social developments that played a fundamental role in shaping the world today. In addition to providing a basic narrative of events, the goals of this class are to develop an understanding of some of the major themes in modern European history, an ability to analyze historical evidence and interpretations, and an ability to express historical understanding in writing.

**US History 11**

Grade 11

This course is designed as a survey of American history with an emphasis on post-Reconstruction American (1876-Present), but does include a review of the earlier period. Understanding United States history is essential for the continuation of our democratic society. This course will help students make connections between their world and the rich heritage of United States history.

**AP US History 11**

Grade 11

United States History AP is a college level course. It is for students who are interested in pursuing intensive reading, discussion, and research involving a variety of texts and resources to develop a thorough foundation in U.S. history.

**Government 12**

Grade 12

The goal of this course is to foster informed, responsible participation in public life. Knowing how to be a good citizen is essential to the preservation and improvement of United States democracy. Upon completion of this Course, the student will understand the major ideas, protections, privileges, structures, and economic systems that affect the life of a citizen in the United States political system.

**AP US Government/Politics**

Grade 12

The focus of this course is American government and the major roles of the presidency, Congress and the Supreme Court. The role of political parties is stressed. This course counts toward the American Government and Citizenship requirement. Students will prepare for the AP American Government exam in May.
6075 Psychology  

Semester Social Studies

Grades 10-12

This course focuses on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphases will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders. Note: This is a college prep course and requires advanced reading and critical thinking skills.

6020 Music in History  

Semester Social Studies

Grades 10-12

History via music and media is a course which allows students to analyze historical events through popular culture and examine the impact of new technologies on society. Students will understand how growth of technology has played a large role in shaping the ideas and culture of the United States. This course will cover the birth of radio, television, and social media and the role they play in economics, politics, and culture. History via music and media will also focus on the development of several genres of music including rock and roll, jazz, hip hop, etc. Students will learn to critically think about social issues, through songs, what events led to the development of these ideas, and the impact these had on the rest of society. Throughout this course, students will analyze multiple forms of media from music, radio, television, social media etc. By the end of the course, students should be more literate on the impact of music and media and the impact of political and economic events on popular culture.

6310 The Role of Government through Dystopian Fiction  

Semester Social Studies

Grades 11-12

What would happen if there was no government? How does government respond when things fall apart? What happens when government has absolute control? These are questions that have been pondered by societies for ages and questions that we still ask today. They are questions that appeal to both the optimists and pessimists. While dystopian or post-apocalyptic fiction is nothing new, recent years have seen a noticeable interest in this genre, whether in books, television or film. In this Social Science elective class, we will examine dystopian fiction – both modern and classic – in attempt to understand some of the basic questions that have interested people since the dawn of civilization: Are humans inherently good? What is the proper role of government? How do we balance equality and liberty? Where should our emphasis be: societal peace or individual freedom?

6320 Criminal Justice  

Semester Social Studies

Grades 11-12

This course addresses the administration of justice including the criminal justice function in our society. Content includes current issues in criminal justice, juvenile justice, ethics, constitutional law, and communications. Upon completion of this course of study the student shall be able to: Identify the major elements of the criminal justice system, analyze the interaction between agencies involved, and assess the role of law enforcement in the criminal justice system.
FINE ARTS:

1725  Mixed Choir  Semester  Arts
       Grades 7-12
Students will increase their knowledge and performing ability in choral music through studying vocal techniques, learning about body use and vocal anatomy, reading music, studying music history, and through becoming familiar with a wide variety of choral music.

1726  Advanced Choir  Year  Fine Arts
       Grades 9-12
Advanced Choir is an audition-only ensemble for 9-12 graders. Students are expected to have a basic understanding of music theory and vocal anatomy/function before joining the ensemble as we will cover these topics in greater depth in this class. Students will sing a wide variety of choral music in many different genres.

1730  Treble Choir  Year  Fine Arts
       Grades 7-12
Treble Choir is an audition-only ensemble for 7-12 graders who are sopranos or altos (treble voices). Students will learn the basics of music theory, vocal anatomy and function and will sing a wide variety of choral music in many different genres.

1050  Beginning Orchestra  Year  Fine Arts
       Grades 7-12
In this class, students will learn to play instruments in the string family such as violin, viola, cello, or bass. There are a limited number of school instruments available to students who have financial need. Most students rent their instruments from local music stores for around $20/month, a relatively low price. They will also be required to purchase a method book which is available for a very cheap price. In addition to learning technique for playing these instruments, students will also learn to read music. Orchestra students play in concerts here at DaVinci four times each year.

1060  Symphonic Orchestra  Year  Fine Arts
       Grades 7-12
In this class, students will continue to build upon the string techniques that they have already learned. Playing experience is a prerequisite and students that have not taken the Beginning Orchestra course will be required to audition. We spend time in this class working exclusively on music for each of our concerts. There are a limited number of school instruments available to students who have financial need. Most students rent their instruments from local music stores for around $20/month, a relatively low price. Symphonic Orchestra students play in concerts here at DaVinci four times each year as well as a competitive music festival each March.

1070  Chamber Orchestra  Year  Fine Arts
       Grades 9-12
Chamber Orchestra is our most advanced orchestra here at DaVinci Academy. Students will play advanced-level music in a small orchestral ensemble. The chamber orchestra performs in four concerts throughout the year, as well as traveling to the annual Charter School Music Festival and participating in the solo/ensemble festival at DaVinci. Students hoping to be in Chamber Orchestra must first audition for Mr. Marshall.
1740  **Beginning Band**  
**Year**  
Grades 7-12  
In this class, students will learn to play instruments in the brass and woodwind family such as tuba, trombone, trumpet, flute, clarinet, or saxophone. There are a limited number of school instruments available to students who have financial need. Most students rent their instruments from local music stores for around $20/month, a relatively low price. They will also be required to purchase a method book which is available for a very cheap price. In addition to learning technique for playing these instruments, students will also learn to read music. Band students play in concerts here at DaVinci four times each year.

1055  **Concert Band**  
**Year**  
Grades 7-12  
In this class, students will continue to build upon the techniques that they have already learned. Playing experience is a prerequisite and students that have not taken the Beginning Band course will be required to audition. We spend time in this class working exclusively on music for each of our concerts. There are a limited number of school instruments available to students who have financial need. Most students rent their instruments from local music stores for around $20/month, a relatively low price. Concert Band students play in concerts here at DaVinci four times each year as well as a competitive music festival each March.

1025  **Guitar I**  
**Semester**  
Grades 7-12  
*(Must provide own guitar)*  
This course is beginning acoustic guitar with an emphasis on open chords, strum patterns and finger picking. No prior musical experience is required.

1026  **Guitar II**  
**Semester**  
Grades 7-12  
*(Must provide own guitar)*  
This course is a continuation of Guitar 1. Students will beginning reading music, barre chords, tablature, etc., will be covered.  
Prerequisite: Guitar 1 or approval of instructor.

1030  **Percussion**  
**Year**  
Grades 7-12  
In this class, students will learn to play percussion instruments such as snare drum, bass drum, crash cymbals and xylophone. These instruments are provided by the school, but students are required to bring their own pair of drumsticks. In addition to learning technique for playing these instruments, students will also learn to read music. Percussion students play with the DaVinci bands and orchestras in concerts four times each year.

1944  **Theater I**  
**Semester**  
Grades 9-12  
This introductory course introduces students to the fundamentals of theatre arts, the role of an actor interpreting dramatic literature, performance theory and techniques, and as an overview of the technical elements of the stage. Group interaction and ensemble work will be emphasized. Course work will focus on pantomime, scene and character development, voice techniques, dramatic structure and establishing a base knowledge of dramatic literature and theatre history. In addition to increasing the student's appreciating of the stage, this class will emphasize ways in which young people can develop interpersonal communication skills. This course is a prerequisite for all other drama courses.
1945  Theater II  Semester  Fine Arts or Elective
Grades 9-12
This class is a continuation of Theatre I. There are two basic goals in theatre education: finding meaning in works of theatre art through the study and appreciation of theatre as an art form, and constructing meaning in works of theatre art through the study and skill development of theatre techniques in the creation of that theatre art. This is the entry-level course that introduces these two concepts.
Prerequisites: Theatre I

1946  Theatre III  Semester  Fine Arts or Elective
Grades 10-12
There are two basic goals in theatre education: finding meaning in works of theatre art through the study and appreciation of theatre as an art form, and constructing meaning in works of theatre art through the study and skill development of theatre techniques in the creation of that theatre art. To these concepts this course adds depth as well as breadth through the study of dramatic unity, comparison and integration of art forms, analysis and critique of performance, and understanding of context and the effect of history and culture on character action.
Prerequisites: Theatre II

1947  Theatre IV  Semester  Fine Arts or Elective
Grades 10-12
This is a more advanced course in theater for students who have successfully completed Theater Level 3 and who desire a more intensive study of theater. This course provides many more performance opportunities as well as study in classical acting, design, theater history, playwriting, scene work, and directing. Students serious about auditioning for the productions class should enroll in this class.
Prerequisites: Theatre III

1310  Art Foundations I  Semester  Fine Arts or Elective
Grades 7-8
This is an entry-level course designed to provide an overview and introduction to visual arts through studying world art history and a variety of art tools and materials. With an emphasis on studio production and creation, this course is designed to develop high level thinking, art-related technology skill, art criticism, art history, and aesthetics.
Prerequisites: None

1310  Art Foundations II  Semester  Fine Arts or Elective
Grades 8-12
This is an entry-level course for the High School Visual Arts Core Curriculum. It is designed to provide an overview and introduction to Visual Arts through studying a variety of art tools and materials. With an emphasis on studio production, this course is designed to develop higher level thinking, art-related technology skill, art criticism, art history, and aesthetics.
Prerequisites: None

1331  Drawing I  Semester  Fine Arts or Elective
Grades 8-12
This is a somewhat intensive, entry-level course for students who want to improve their drawing technique and observation skills. Students will learn to draw various subjects such as still lives, animals, and portraits through practice and studio production.
Prerequisites: None
**1332 Drawing II**  
*Semester*  
*Fine Arts or Elective*  
*Grades 9-12*

This is a continuation of Drawing I and is considered an intermediate course. Students will use what they learned in Drawing I to further their drawing and observation skills. Students will learn more advanced subjects in drawing like the human figure and will experiment with new drawing mediums. Students will also explore their creativity through various self-directed projects.

Prerequisites: Drawing I

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**1333 Pre-AP Visual Arts**  
*Semester*  
*Fine Arts or Elective*  
*Grades 10-12*

Pre AP Visual Art is a rigorous and advance course, centered on the goal of preparing students for the AP Visual Arts Test. This is a course where students will start to create their own personal exhibition quality portfolios.

Prerequisites: Drawing I, Drawing II, and Painting I

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**1105 Painting I**  
*Semester*  
*Fine Arts or Elective*  
*Grades 9-12*

This is an intermediate course designed to teach students to use different paint mediums and techniques as well as light and color theory. With an emphasis on skill building and studio production, students will learn how to use ink, watercolors, and acrylic paints through a variety of guided and self-directed projects.

Prerequisites: Drawing I

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**1106 Painting II**  
*Semester*  
*Fine Arts or Elective*  
*Grades 10-12*

This is a continuation of Painting I and is considered an advanced class. In this course, students will learn how to use oil paints. With an emphasis on skill mastery and studio production, students will practice oil painting techniques through a variety of guided and self-directed projects. (Students must purchase their own brushes and brush cleaner.)

Prerequisites: Painting I

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**1333 Pre-AP Visual Arts**  
*Grades 10-12*

Pre AP Visual Arts is an advanced course designed to prepare students for AP Art Studio 2D. This course is treated as an individual study class where students will explore contemporary art trends and develop their own work through research and creation. With an emphasis on skill mastery and studio production, students will be expected to create a body of work with the intention of starting an AP Portfolio.

Prerequisites: Drawing II or Painting I

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**1130 AP Art Studio 2D**  
*Year*  
*Fine Arts or Elective*  
*Grades 11-12*

AP Art Studio 2D is an advanced class for students who are capable of self-directed work. An AP Portfolio of 24 artworks must be completed by the date of the portfolio review in early May. Please contact the teacher for details about the portfolio requirements. Passing the AP Portfolio review with a 3 or better can give students up to 8 elective college credits (college credit may vary, contact universities for AP credit details).

Prerequisites: Pre-AP Visual Arts or Painting II (teacher approval required)
1335 **Gallery Crew**  
Grades 9-12  
This is a class designed for students who are interested in gallery work or art education. Students taking this course will help set up, take down, and maintain monthly art shows at the school as part of the First Friday Ogden Art Stroll. Students will learn how to frame and display artwork as well as how to present artwork to viewers. Students will also be involved in program building and art themed community outreach projects.

1145 **Ceramics I**  
Semester  
Fine Arts or Elective  
Grades 9-12  
Ceramics develops basic skills in the creation of 3D forms and pottery from clays. With an emphasis on studio production, this course is designed to develop higher level thinking, art-related technology skill, art criticism, art history, and aesthetics.  
Prerequisites: none  
Fee: Extra clay for the class varies from $8-$12

1146 **Ceramics II**  
Semester  
Fine Arts or Elective  
Grades 9-12  
(The Exciting Clay Sequel to Ceramics 1) This is the perfect class for those students who took Ceramics 1 and want to improve their throwing skills and sculpture techniques. Students will have a degree of artistic choice while they pursue a variety of new and challenging projects and techniques. This class can be repeated.  
Prerequisites: Ceramics I  
Fee: Extra clay for the class varies from $8-$12

1147 **Ceramics Pre-AP**  
Semester  
Fine Arts or Elective  
Grades 10-12  
(Perfect Your Expertise!) Ceramics 3 is a studio class for serious potters or ceramic sculptors who want to build a portfolio of work for art shows, competitions, and scholarships. Conceptual art will be emphasized and more in depth experiences with firings, building techniques and glazes will be a part of this course.  
Prerequisites: Ceramics II  
Fee: Extra clay for the class varies from $8-$12

1150 **AP Art Studio 3D**  
Year  
Fine Arts or Elective  
Grades 11-12  
For students with a mastery of elementary ceramic principles who wish to further develop their knowledge and skill. Students who take this class will be exploring advanced building and decorating techniques in pottery and sculpture. In May, students will be required to submit a portfolio to the College Board for AP credit. You can earn 4 college art or elective credits with a passing score on your AP Studio 3D design portfolio.  
Prerequisites: Ceramics III  
Fee: Extra clay for the class varies from $8-$12

1955 **Stage Make-up**  
Semester  
Arts  
Grades 7-12  
Stage Makeup teaches the students the basic elements of stage makeup including but not limited to Beauty/Glamour, Period, Futuristic, Gore, Old Age, Close Up Stage, Medium Stage, Gender, Character and many others. Additionally, the class will focus on design creation through research, design, rendering and application.
**1948**  
**JH Aud. Theatre**  
**Year**  
Fine Arts or Elective  
**Grades 8-9**

Seventh graders may take this class if they have completed theater foundations I or with teacher approval. There are two basic goals in theatre education: finding meaning in works of theatre art through the study and appreciation of theatre as an art form, and constructing meaning in works of theatre art through the study and skill development of theatre techniques in the creation of that theatre art. This is the entry-level course that introduces these two concepts.  
Prerequisite: Audition/Teacher approval

**1949**  
**HS Aud. Theatre**  
**Year**  
Fine Arts or Elective  
**Grades 10-12**

There are two basic goals in theatre education: finding meaning in works of theatre art through the study and appreciation of theatre as an art form, and constructing meaning in works of theatre art through the study and skill development of theatre techniques in the creation of that theatre art. To these concepts this course adds depth as well as breadth through the study of dramatic unity, comparison and integration of art forms, analysis and critique of performance, and understanding of context and the effect of history and culture on character action.  
Prerequisite: Audition/Teacher approval

**1939**  
**Musical Production**  
**Year**  
Fine Arts or Elective  
**Grades 9-12**

This year-long course is designed to prepare students to participate in varied aspects of musical theatre, with special attention voice production (ensemble and solo work) stage movement, acting, characterization, dance, musical theatre history, directing, auditioning and technical aspects of a musical production. The student will be introduced to the foundations of musical theatre through the use of exercises, assignments, prepared musical selections, play/concert attendance and written assignments. This course is designed to create a "Triple Threat" in acting, singing and dancing.  
Prerequisite: Audition/Teacher approval

**1950**  
**Stage Crew**  
**Year**  
Fine Arts, CTE, or Elective  
**Grades 8-12**

This course is designed to cover the basics of set design, including basic drafting, design principles, model building, painting techniques, along with building and running shows. Students will design and build actual sets for school productions. Outside class time is mandatory.  
Prerequisite: none

**1750**  
**AP Music Theory**  
**Year**  
Fine Arts, Elective  
**Grades 10-12**

In this thrilling course for the musically talented, students will learn music theory and develop ear training/sight singing skills in preparation for the AP Music test. We will learn how to analyze written music by identifying chords, cadences, and melodic strategies. We will also learn to write music using melodies, harmonies, and chords. Students will practice identifying notes and chords based only on hearing. We will also learn to sing a single line of music without hearing it first (sight singing). Prior music experience is a must as well as the ability to read notes in treble or bass clef. This is a full year class.
3510  Chemistry of Ceramics  Semester  Elective Science or Fine Arts
Grades 8-12
In this course students will have a unique opportunity to learn about chemistry in the realm of ceramics. This is a lab based class where students will learn to design their own glaze.

4035  Play Analysis and Creation  Semester  Fine Arts
Grades 7-12
Study and practice of analytical tools and critical approaches that help students appreciate plays as informed viewers and writers of theatrical works. In the class, students will examine the methods of script analysis from the perspective of theatre practitioners through viewing, critiquing and writing theatrical works. Students submit completed plays to local/state and national playwriting completions and selections performed.
FOREIGN LANGUAGE:

4800 Spanish I Year Foreign Language or Elective
Grades 9-12
Spanish I is an introduction to the Spanish world, language and its people. Learn to communicate with over 400 million people in the world who use Spanish. 8th grade students may take the class with teacher approval and if there is availability.

4850 Spanish II Year Foreign Language or Elective
Grades 10-12
Spanish II continues developing speaking skills with added emphasis on reading and writing. We’ll also do great activities in order to learn about the many different countries where Spanish is used. 
Prerequisite: Spanish I

4820 Spanish III Year Foreign Language or Elective
Grades 10-12
This course builds on the grammatical concepts and vocabulary that students mastered while completing the Spanish I and II courses. Spanish III fully aligns with national ACTFL standards. Students learn increasingly complex grammatical constructions, such as present, imperfect, perfect, and future tenses; reflexive and modal verbs; prepositions; conjunctions; relative pronouns; and adjective endings. Unit themes in this two-semester course include chores, directions, feelings, future plans and travel, geography, countries and nationalities, health, household items, measurements, occupations, and personal history. Unit activities blend different forms of communication and culture.

0045 German (online) Year Foreign Language or Elective
Grades 9-12
This is a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading, and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Greetings, the Date, Weather, Time and Colors), students learn to express themselves using an ever increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the German speaking world and their culture, people, geographical locations, and histories. The course is aligned to the American Council on the Teaching of Foreign Language standards.

0045 French (online) Year Foreign Language or Elective
Grades 9-12
The goal of this course is to give students basic listening, speaking, reading, and writing skills through activities based on pedagogically proven methods of foreign language instruction. Throughout the five units of material - Greetings, Calendar, Weather, Time and Colors - students learn to talk about themselves and other, describe their surroundings and use numbers for dates and time. Regular verbs are introduced in the present tense. Simple grammatical structures are practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help students understand the context of the language and to better understand the perspectives of the French-speaking world. The course is aligned to the national Foreign Language standards and provides a way to focus on the five important aspects of foreign language instruction: communication, culture, connections, comparisons and community.
0045 Chinese (online)  Year Foreign Language or Elective
Grades 9-12
This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (Simplified). In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Introduction to Chinese, Greetings, Calendar, Weather, and Time), students learn to express themselves using an ever increasing vocabulary. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

0045 Latin (online)  Year Foreign Language or Elective
Grades 9-12
Latin 1 is the introduction to the basics of Latin grammar as well as an introduction to Roman life, culture, mythology, and history. The grammar portion of the course is intended to help you develop the skills necessary to translate basic sentences from Latin to English and English to Latin, and for reading simple connected passages of Latin prose and poetry. The culture portion of the course is to give you an overview of ancient Roman culture and history, an overview of some of the more popular Greek and Roman myths.

0045 Japanese (online)  Year Foreign Language or Elective
Grades 9-12
This is a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Greetings, The date, Time, Colors and Places), students learn to express themselves using an ever increasing vocabulary, present-form verbs, particles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Cultural information in the course will teach the student about Japanese culture, people, society, and history. The course is aligned to the national Foreign Language standards. In order for a student to be successful in Japanese 1, Semester 1, the student must: Study vocabulary at least fifteen minutes daily. Do all activities in the course -- those for a grade as well as those that are for student enrichment only. Take notes that can be used to study Japanese outside of class. Be motivated to work independently. Stay in frequent, close communication with the online Japanese teacher. The course must be worked through in order and all activities must be done. Many of the self - check activities can be done over and over again which will serve very beneficial to the student who is motivated to use this course as an effective delivery system.
CAREER/TECHNICAL/OWATC CLASSES:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Grade Levels</th>
<th>CTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100</td>
<td>Digital Photo</td>
<td>Semester</td>
<td>Grades 7-12</td>
<td>Fine Arts, CTE</td>
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<tr>
<td></td>
<td>Improve your photographic eye through various photo assignments, presentation and research. This class focuses on composition and manipulation – shooting and photo shopping. Learn how the principles and elements of art can improve your photography. Students will learn how to appreciate/critique photographs and how to express themselves artistically. Classroom cameras will be available for students use; however, students who own their own digital cameras will have an easier time completing assigned work. Prerequisites: none Fee: $15 class fee covers classroom cameras, prints, studio equipment and photographic supplies</td>
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<tr>
<td>8001</td>
<td>Engineering Design</td>
<td>Year</td>
<td>Grades 9-12</td>
<td>CTE</td>
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<tr>
<td></td>
<td>Engineering is an overview of the engineering process, engineering communication and various engineering disciplines. This course exposes students to multiple engineering disciplines to help the students determine which engineering types he/she may be interested in. This class includes Computer Aided Drafting, Hands-on projects, Lab reports, Projects, Structures, Chemicals, Electronics, Programming.</td>
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<tr>
<td>8005</td>
<td>Financial Literacy</td>
<td>Semester</td>
<td>Grade 11-12</td>
<td>Required CTE</td>
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<td>This course encompasses standards that are essential to the development of basic financial literacy. Students will gain the information and skills to implement a life-long plan for financial success.</td>
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<tr>
<td>8565</td>
<td>Graphic Design</td>
<td>Semester</td>
<td>Grades</td>
<td>CTE</td>
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<tr>
<td></td>
<td>An examination of principles of design and design considerations as applied to the creation of web pages and Web sites. Emphasis is on visual communication principles and visual presentation aspects of Web pages, including page layout, typography, color theory, navigation, and image creation and editing.</td>
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<tr>
<td>8575</td>
<td>Business Office Specialists</td>
<td>Semester</td>
<td>Grades 10-12</td>
<td>CTE</td>
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<td></td>
<td>This course applies advanced concepts and principles using word processing, spreadsheets, databases, and electronic presentation software. Students will integrate applications learned. This course builds on skills included in Computer Technology.</td>
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<tr>
<td>8580</td>
<td>Business Applications</td>
<td>Semester</td>
<td>Grades 10-12</td>
<td>CTE</td>
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<td></td>
<td>The business world is progressively more reliant on digital technologies. The Digital Business Applications course is designed to prepare students with the knowledge and skills to be an asset to the collaborative, global, and innovative business world of today and tomorrow. Concepts include the overall digital experience, digital communications, digital media and the exploration of career choices. This course also provides practical experience in professionalism using various forms of presentation skills, including speaking, podcasting and digital portfolio relating to the globalization of business.</td>
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</table>
Exploring Computer Science 1  
Semester  
CTE  
Grades 9-12  
Exploring Computer Science 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 tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

Web Development 1  
Semester  
CTE  
Grades 9-12  
Web Development is a course designed to guide students in a project-based environment in the development of up-to-date concepts and skills that are used in the development of today's websites. Students will learn the fundamentals of how the Internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They follow the steps to create a website by planning, designing, developing, deploying, and maintaining of the website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in Web Development as they complete projects and create their own website.

Computer Programming 1  
Semester  
CTE  
Grades 10-12  
An introductory course in computer programming/software engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. Teachers introduce concepts and problem solving skills to beginning students through a programming language such as C++, C#, Java, Python, or JavaScript. This semester introduces students to more complex data structures and their uses, including sequential files, arrays, and classes. Students will learn to create more powerful programs.

Computer Science Principles  
Semester  
CTE  
Grades 9-12  
Computer Science Principles is a new course that follows a project to develop a computer science course that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include: (1) Computing is a creative activity. (2) Abstraction reduces information and detail to facilitate focus on relevant concepts. (3) Data and information facilitate the creation of knowledge. (4) Algorithms are used to develop and express solutions to computational problems. (5) Programming enables problem solving, human expression, and creation of knowledge. (6) The Internet pervades modern computing. (7) Computing has global impacts.

Film Making I  
Semester  
Fine Arts, CTE  
Grades 7-12  
Film I gives students an overview of the film making process including script writing, planning, shooting, editing, distribution and more. Students will learn firsthand by making their own films and completing other projects that will enhance their understanding of and appreciation for the craft of film making. This self-directed course allows students of any level to get a good introduction to the world of film.  
Prerequisites: none.
**Film Making II**

**Semester**

Fine Arts, CTE

**Grades 7-12**

Film II students learn in-depth concepts and techniques related to screenwriting and film production. Students develop skills related to both the technical and artistic sides of film making, with emphasis on powerful storytelling and the visual language of film. Film II builds upon the prior class by placing students' skills and knowledge within the context of historical developments and current industry practices. Students can expect to complete more complex projects in a production-focused environment. The course is capped by a large class project that will be featured in DaVinci's annual film festival.

Prerequisites: Film I, Digital Photography

**Vex Robotics VRC**

**Year**

CTE

**Grades 9-12**

Robotics & Automation is a lab-based, hands-on curriculum combining electrical, mechanical and engineering principles. Students will learn to design, build, program, and control robotic devices by applying science, technology, engineering and math concepts. A rigorous study and application of electrical concepts will include: sources of energy, electrical safety, use and identification of basic electronic components, sensors and actuators. Engineering concepts will include: mechanical design, prototype development, design testing, programming, and proper engineer documentation. Industrial automation, robotic applications and career opportunities will also be discussed.

**Robotics 7-8 IQ**

**Semester**

Career Technical Education

**Grades 7-8**

The focus of the Robotics course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. The major focus of this Robotics class is to have fun while learning. Learning areas include:

- STEM, engineering, and robotics
- VEX IQ Robotic Hardware
- VEX IQ, controller, and the robot brain
- RobotC Programming
- Levers, pulleys, & simple machines
- Motors, gear ratio, drivetrains, object manipulation & more
- Sensors and the basics of programming
- Robot Challenge

**College and Career Awareness**

**Year**

Career Technical Education

**Grade 7**

In the College & Career Course, students explore and prepare for college and career pathways. Identifying interests, abilities, and skills will be the cornerstone of this course. With information related to careers, educational pathways, and self-knowledge, students can plan for the future. The content areas we will be exploring include:

- Agriculture
- Business & Marketing
- Family & Consumer Sciences
- Health Science
- Information Technology
- Technology, Engineering, & Skilled Technical Sciences

Fun and educational project-based lessons and Career Guidance throughout the year will help students realize their options for their future.
**9001 Teel Living**  
**Semester**: CTE or Elective  
**Grades 7-8**

This course helps students understand and cope with personal, family, and social challenges. Emphasis is placed on communication, decision-making skills, and building stable relationships with family and peers. The course enables students to implement positive coping mechanisms and promotes understanding of self. Emphasis is placed on students taking personal responsibility for life.

**9762 Introduction to Python-Coding**  
**Semester**: CTE or Elective  
**Grades 7-8**

We are piloting a new Introduction to Python Programming class for 7th & 8th grade students through the state. There are 7 reasons a student may want to think about taking this course: 1) Python is Great for Beginners 2) Web Development with Python 3) Iterative, Agile Design 4) Python has High Salaries 5) Python Security 6) Python, Artificial Intelligence & Machine Learning 7) Python Diversity and Flexibility.

Python is a programming language that reads like normal speech. Many of the common functionalities that programmers need are already built into the programming language, which makes this a great language for middle school students to learn. Steve Jobs in an interview said that “Everybody in this country should learn to program a computer, because it teaches you how to think.”

**0402 Office Aide**  
**Semester**: CTE (with packet) or Elective  
**Grades 9-12**

Students will work in the office (attendance, main office or counseling office) to help the school run their day-to-day functions. Office approval is required. This is a Pass/Fail non GPA courses.

Prerequisite: Office staff approval and on track to graduate.

**0427 Teacher’s Aide**  
**Semester**: CTE (with packet) or Elective  
**Grades 7-12**

Students will work with an individual teacher to help the teacher with classroom tasks. Teacher approval is required. This is a Pass/Fail non GPA courses.
### OWTC Certifications

<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
<th>Hours/Months</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>0500</td>
<td>OWTC Automotive</td>
<td>405/4-8</td>
<td>CTE/Science Elective</td>
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<tr>
<td></td>
<td>Grades 11-12</td>
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<td>Automotive Technician – High School Exploration Certificate provides high school students the opportunity to learn basic skills and the foundation to pursue further training in the automotive service industry. The program is based on National Automotive Technicians Education Foundation (NATEF) standards and includes instruction on the most common automotive maintenance and light repair tasks as well as safety inspections and emissions testing. In the state-of-the-art equipped lab, students practice and demonstrate competencies as they study to become an Automotive Technician. This program provides a seamless pathway to the college’s 1020-hour Automotive Technician -Maintainance and Light Repair Certificate. <strong>Entrance Requirements:</strong> Accuplacer reading of 55 or higher or ACT of 16, Program Orientation</td>
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<tr>
<td>0500</td>
<td>OWTC Barbering</td>
<td>1000/9-18</td>
<td>CTE/Science Elective</td>
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<td></td>
<td>Grades 11-12</td>
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<td>The barbering program is designed to provide competency-based knowledge, scientific/artistic principles and hands on fundamentals associated with the barbering industry. Students learn shaving, mustache/beard design as well as cutting hair, using razors, shears and clippers. Special attention is given to hygiene, skin and scalp disorders, anatomy, sterilization and sanitation, and salon operation. <strong>Entrance Requirements:</strong> Reading Accuplacer of 55 or higher or ACT of 16, must have books and kits on first day of class</td>
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<tr>
<td>0500</td>
<td>OWTC Business Technology</td>
<td>1160/10-20</td>
<td>CTE/Science Elective</td>
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<td>Grades 11-12</td>
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<td>Completing the New Business Certificate provides an opportunity to seek employment using skills in leadership, presentations, marketing, social marketing, basic records management, accounting practices, QuickBooks, and business software applications such as Microsoft Office Suite. Employment is found in all business areas, including large and small business, education, corporations, and self-employment. In addition to attending classes in the classroom, the Business Program is also available online. Students have options to attend and complete the certificate program completely on-line or in the classroom. Costs will vary based on courses taken and delivery mode. High school students may participate if approval is obtained from their counselor and space is available in the program. <strong>Entrance Requirements:</strong> Complete pre-enrollment assessment for Reading Accuplacer (score of 65+) or ACT score of 18+, pre-enrollment academic advisement. High School Students need to have a GPA of 3.0 or higher. *High School Students need to purchase books for on-line courses.</td>
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<tr>
<td>0500</td>
<td>OWTC Nurse Assistant</td>
<td>110/6-8</td>
<td>CTE/Science Elective</td>
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<td>Grades 11-12</td>
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<td>This program prepares the student to assist licensed nursing personnel in the provision of nursing care. The skills taught include assisting patients with activities of daily living such as bathing, dressing, transferring, ambulating, feeding, and toileting. Successful completion of this program qualifies the student to sit for the NATCEP Exam. Successful completion of the NATCEP exam certifies the student as a C.N.A. (Certified Nurse Assistant). <strong>Entrance Requirements:</strong> Students must be 16 years old, Must be able to pass criminal background investigation, Reading Accuplacer of 65 or 60 with conditional placement, or High School, GPA 3.0, TB Screening</td>
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</tbody>
</table>
Learn how to take an idea and turn it into a reality using some of the most advanced and versatile materials available. You will spend about 20% of the time learning about the materials and processes and the other 80% of the time actually building composite structures. Carbon fiber, fiberglass and Kevlar are some of the materials that you will learn how to use to manufacture a wide variety of components in this “hands-on” training style program. You will have the opportunity to show your skills by personally using these state of the art materials to create a variety of parts.

**Entrance Requirements:** Reading Accuplacer of 55 or higher or ACT score of 16

How does an idea become reality? Imagine being a part of creating a rocket engine with over 22 million horsepower, Rattlesnake Rapids at Lagoon, the Egyptian Theater on 24th Street, or even designing your own home. All of these things and millions more were created here in Utah and a Computer Aided Designer was there every time. Computer Aided Designers work with engineers, designers, and architects to create a variety of models and drawings. Sometimes the Computer Aided Designer’s digital model will be used directly with high-tech equipment (example: 3D printing); other times, the Computer Aided Designer will prepare detailed drawings. The Computer Aided Design Technology (CADT) program prepares students for entry-level employment as a Computer Aided Designer in one of the following industries: Architecture, Structural, Civil, Interior Design Drafting, Manufacturing -Model Development, and Rapid Manufacturing Design.

**Entrance Requirements:** Reading Accuplacer 65 or higher or ACT score of 18

Graphic Designers communicate ideas with a combination of words and images. The Computer Graphic Design certificate program focuses on providing students with the software and design skills to gain entry level employment in the Graphic Design field. Students will learn to apply industry standard software to create solutions to visual design problems. The focus of this program is to offer students hands on experience in creating designs for web, print and multimedia.

**Entrance Requirements:** Reading Accuplacer of 65 or higher or ACT of 18, Kuder Assessment

Construction Basics introduces the student to a variety of construction skills such as: Framing, Plumbing, Electrical, Cabinetry, Tools and Safety. Basic concepts from each of the areas are covered in preparation for entering into the construction career field.

**Entrance Requirements:** Reading Accuplacer 55 or higher or ACT 16
0500 OWTC Cosmetology 1600 Hours/14-28 months CTE/Science Elective
Grades 11-12
The Cosmetology program is designed to provide competency based knowledge; the scientific and artistic principles and hands on fundamentals associated with the Cosmetology industry. The program provides students with a solid foundation so that upon completion they have received the education and skills to sit for the state written and practical examinations required for licensure.
Entrance Requirements: Reading Accuplacer of 55 or higher or ACT 16, Must have books and kits on first day of class (Kit A and books on the first day of class and Kit B required six weeks after first day of class)

0500 OWTC Dental Assistant 1425 Hours/12-24 months CTE/Science Elective
Grades 12
Dental assistants greatly increase the efficiency of the dentist in the delivery of quality oral health care and are valuable members of the dental team. The duties of a dental assistant are among the most comprehensive and varied in the dental office. Dental assistants perform many tasks requiring both interpersonal and technical skills.
Entrance Requirements: Accuplacer reading score of 72 or ACT reading score of 22, Accuplacer math score of 65 or ACT math score of 17 or successful completion of OWATC Math I, Completed application including physical examination, record of immunizations, and dental office observation, Enrolled as a senior in High School

0500 OWTC Info Technology 1335 Hours/12-24 months CTE/Science Elective
Grades 11-12
The college offers several options for training in Information Technology including help desk, computer support, and network security and administration. Careers are usually focused on one or two areas but can overlap several for broader skill sets and opportunity for employment.
Entrance Requirements: Reading Accuplacer of 65 or higher or ACT 18, Kuder Assessments, Academic Advisement

0500 OWTC Machinist 900 Hours/8-16 months CTE/Science Elective
Grades 11-12
You’ve seen it on TV – some guy using a machine to carve out a wicked custom aluminum wheel he designed on the computer. Well, that guy is machining, and it might be just the career you’re looking for. Machining is defined as any operation that changes the shape, surface finish, or mechanical properties of a material by the application of special tools and equipment. Machining is almost always a process where a cutting tool removes material to effect the desired change in the work piece. The Machining program is based on hands-on experience and training, using various machines and their accessories, combined with a suitable amount of related material. Students who receive a Machinist Level I certificate will have the basic machining skills needed to work well in a production or custom-work environment.
Entrance Requirements: Reading Accuplacer of 65 or higher or ACT 18

0500 OWTC Medical Assisting 1545 Hours/14-28 months CTE/Science Elective
Grades 11-12
Medical assistants are multi-skilled health professionals specifically educated to work in ambulatory settings performing administrative and clinical duties. The practice of medical assisting directly influences the public's health and well-being, and requires mastery of a complex body of knowledge and specialized skills requiring both formal education and practical experience that serve as standards for entry into the profession.
Entrance Requirements: Complete an introduction packet, Accuplacer reading score of 72 or ACT of 22, Accuplacer math score of 65 or ACT math of 17, Background Check
Medical coders are responsible for assigning codes to diagnoses and procedures in order to ensure proper financial reimbursement from insurance companies and government agencies. Medical coders, also called insurance coders or claims specialists, use a universally-recognized coding system and must ensure correct code selection for compliance with federal regulations and insurance requirements. Knowledge of both the medical and business sides of health care is essential in this detail-oriented field. Coding specialists work in health care facilities such as clinics, physician practice groups, surgery centers, long-term care facilities, and home health care agencies. Coders are also employed by consulting firms, coding and billing services, insurance companies, governmental agencies and computer software companies.

**Entrance Requirements:** Accuplacer reading score of 72, or ACT 22, Accuplacer math score of 65, or ACT math score of 17

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The Nail Technician program is designed to provide competency based knowledge; the scientific and artistic principles and hands on fundamentals associated with the Nail Technician industry. The program provides students with a solid foundation so that upon completion they are able to pass the state written and practical examinations required for licensure.

**Entrance Requirements:** Reading Accuplacer of 55 or higher or ACT 16, must have on first day of class.

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A Pharmacy Technician assists the pharmacist in a retail or hospital setting to store, prepare, and dispense medicines. Responsibilities include inventory, ordering, labeling, storing, and distributing medicines, working with patient records, billing information, gathering information for the pharmacist, and the distribution of printed information to the patient. Individuals completing the OWTC Pharmacy Technician program who are high school graduates and at least 18 years of age are eligible to sit for the national Pharmacy Technician Certification Exam. Successful completion of the training program and these examinations meets the requirements for Utah licensure as a Pharmacy Technician.

**Entrance Requirements:** Be a high school graduate or equivalent and 18 years of age at the time of program completion, Demonstrate math and reading proficiency, Pass a background check, Have a valid state ID (required for licensure).

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Software Developers are responsible for design, construction, integration, testing, verification, and the maintenance behind software products. They create, test, and evaluate software systems and applications used for everything from computer operations, to workplace productivity. The Software Development program is offered through the Ogden-Weber Tech College. High school students may participate if approval is obtained from their counselor and space is available in the program. This program is designed to meet both your personal and business needs. As a student you will not only obtain a solid understanding of the principles of software development but also related skills that will enable you to be highly productive in developing software.

**Entrance Requirements:** Complete Reading Assessment, Complete Math Assessment, Complete Kudar Assessment, Academic Advisement
0500 OWTC Soldering 2-4 months CTE/Science Elective
Grades 12
Students will learn ESD and electronic soldering safety procedures and apply proper through-hole and surface mount technology with both lead-free and lead-tin solder as used in manufacturing circuit boards. Students also learn wire harness assembly with proper wire terminations, wire preparation, labeling and wire crimping, rework, reflow and wave soldering techniques and inspection criteria under a microscope. Students will prepare for the J-STD-001 certification exam.

0500 OWTC Web Development 1335 Hours/12-24 months CTE/Science Elective
Grades 11-12
Web Developers are responsible for coding, editing and troubleshooting web related content for public and corporate websites. Web Developers create code that allows data to be accessed from local and remote databases. Web Developers must stay up to date on current programming languages and web technologies. High school students may also participate if approval is obtained from their CTE counselor and space is available in the program. Completing the Web Development Certificate provides opportunity to seek employment using job skills needed in all business areas, including large and small business, education, corporations, and self-employment.

Entrance Requirements: 10th grade reading level, or Reading Accuplacer of 65 or higher or ACT score of 18, Kuder assessment, Complete the online orientation

0500 OWTC Welding 780 Hours/7-14 months CTE/Science Elective
Grades 11-12
The Welder Production training program will provide you with entry-level job skills to work in a production environment as a welder or welder’s helper. You will learn a variety of welding skill processes. Completing the requirements for the advanced welder will provide you with a wider variety of employment options. As a welder, you will be using a variety of welding processes and techniques to build products in a production environment within manufacturing facilities and/or specialty shops. You will be following blueprints and customer specifications.

Entrance Requirements: Reading Accuplacer of 55 or higher or ACT score of 16
**PHYSICAL/HEALTH ED:**

**7100 PE: Participation Semester PE/Health**
Grade 9

This one-semester required course for ninth grade students is designed to help each student become involved in and adopt a personal lifestyle of regular physical fitness. Specifically, students will identify and understand all of the components of fitness, including weight control, nutrition, and stress management. The focus is on activities for fitness and healthy lifestyles.

**7000 PE: Fit for Life Semester PE/Health**
Grades 10-12

This one-semester required course for sophomore students is designed to help each student become involved in and adopt a personal lifestyle of regular physical fitness. Specifically, students will identify and understand all of the components of fitness, including weight control, nutrition, and stress management. The focus is on activities for fitness and healthy lifestyles.

**7700 PE: ILA Semester PE/Health**
Grades 10-12

This general physical education course is for junior and senior students who need to fulfill one semester of physical education credit toward graduation. General conditioning and some team and individual sports activities will be taught in this class.

**7003 Weight Training Semester PE/Health**
Grades 10-12

This physical education class is geared towards muscular strength, muscular endurance and overall body composition. Students must be self-motivated and want to work hard.

**7010 Health Education II Semester PE/Health**
Grades 9-11

The purpose of this course is to provide students with information and skills which will improve the quality of life and help them develop a healthier lifestyle physically, socially, and mentally. This course has five areas: Life-skills, positive and negative lifestyles, family life cycle, diseases, disorders, emergencies, and survival. Topics such as mental and emotional health, drugs, alcohol, tobacco, nutrition, exercise, disease, relationships, family life, and emergencies will be explored.

**7201 Alternative Fitness Semester Physical/Health Education**
Grades 8-12

Alternative Fitness is designed to develop students’ excitement of physical fitness through exploring individual sports/fitness as well as discovering alternative fitness activities that can become lifetime careers options. There will be fitness testing to provide personal information to the student and to measure improvement from the beginning to the end of the grading period. Physical fitness and proper nutrition are emphasized as necessary for maintaining good health throughout life and physical activity is taught as a means of reducing stress.
Health 8 Semester Health Science
Grade 8
Health instruction in personal health covers the following topics: life skills; positive and negative lifestyles; growth; development and maturation; disease; and first aid care.

P.E. 7-8 Semester Health Science
Grades 7-8
This physical education class is offered daily. It develops advanced techniques in dual and team activities. Students learn the terminology and benefits related to the elements of physical fitness through a variety of fitness activities including walking. Students are graded on participation and personal improvement.
OTHER ELECTIVES:

0550  
Seminary Release Time  Year
Grades 9-12
Students selecting Seminary Release Time do so for the purpose of enrolling in L.D.S. Seminary or other denominational equivalents. Offered during first period only.

1201  
AVID  Year  Elective
(Advancement Via Individual Determination)
Grades 7-12
AVID is a college-readiness support system that prepares students in the academic middle for four-year college eligibility and success by placing them in rigorous classes with support from tutorials during the AVID elective class. AVID is not a remedial program or a study hall. Students must apply and have a personal interview.

4015  
Academic Decathlon  Year  Elective
Grades 9-12
Academic Decathlon is a nationwide program involving intense preparation in ten areas of study and performance: Speech/Impromptu, Interview, Art, Music, Math, Science, Economics, Literature, Economics, and Essay. Students of all GPA levels are welcome and needed in this program. The topic of study changes each year, and students prepare for competitions as a team. Awards are given for both individual achievement and team performance.

0500  
College Release Time  Semester  Varies
Grades 11-12
Students are allowed to be released from campus to take classes at the OWTC, Weber State, or any other higher education institution.

5123  
Credit Recovery  Semester  Varies
Grades 9-12
Students will work online on classes that they have previously failed.

0045  
Online Class  Semester  Varies
Grades 7-12
Students can take from a variety of online classes. They will work mostly independent but there is a teacher in the classroom available to assist them if needed.
ONLINE CLASSES:

Accounting Semester CTE
Through this course, students gain a foundation in the skills needed for college accounting courses, office work, and managing their own small businesses. This introduction to accounting gives students who have never had prior accounting training an overview of the three forms of accounting: financial, cost, and management accounting. The course helps build an appreciation for the role of accounting in managing a profitable business. Instructional material covers the basic concepts conventions, and rules of the double entry system and includes techniques for analyzing ratios from a balance sheet. The concept of ethics, integrity, confidentiality, and rigor are woven through all the units.

Achieving your Career & College Goals Semester Elective
Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences, and explore a wide range of potential careers. They investigate the training and education required for the career of their choice, and create a plan to be sure that their work in high school is preparing them for the next step. They also receive practical experience in essential skills such as searching and applying for college, securing financial aid, writing a resume and cover letter, and interviewing for a job. This course is geared toward 11th and 12th graders.

Anthropology Semester Social Studies
Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world. The content in this course meets or exceeds the standards of the National Council for the Social Studies (NCSS).

Archeology Semester Social Studies
George Santayana once said, “Those who cannot remember the past are condemned to repeat it.” The field of archaeology helps us better understand the events and societies of the past that have helped shape our modern world. This course focuses on the techniques, methods, and theories that guide the study of the past. Students learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Students also learn about the relationship of material items to culture and what we can learn about past societies from these items.

Art in World Cultures Semester Fine Arts
Who is the greatest artist of all time? Leonardo da Vinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? Students will learn about some of the greatest artists while also creating art of their own, including digital art. The course explores the basic principles and elements of art, how to critique art, and how to examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.
Astronomy Semester Science
Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development; basic scientific laws of motion and gravity; the concepts of modern astronomy; and the methods used by astronomers to learn more about the universe. Additional topics include the solar system; the Milky Way and other galaxies; and the sun and stars. Using online tools, students examine the life cycle of stars; the properties of planets; and the exploration of space. = .5 credit course/One semester course.

Audio Engineering Semester CTE
In this introductory course, students learn about the physics of sound and the history of recording technologies. They learn about the four stages of professional music recording projects: recording, editing, mixing, and mastering. Using Audacity, an open-source recording and mixing program, they practice the techniques used by sound engineers to produce multitrack recordings. Through a series of engaging hands-on projects, they learn the fundamental concepts of audio engineering. = .5 credit course/One semester course.

Biotechnology Semester Science or CTE
In today’s world, biotechnology helps us grow food, fight diseases, and create alternative fuels. In this course, students will explore the science behind biotechnology and how this science is being used to solve medical and environmental problems. Prerequisites: None = .5 credit course/One semester course.

Careers in Criminal Justice Semester CTE or Elective Credit
The criminal justice system may be a good career option for students who want to help prevent crime and maintain order in society. This course provides an overview of the wide range of career opportunities in the criminal justice system, from law enforcement to forensic scientists to lawyers and judges. Students will learn about the trial process, the juvenile justice system, and the correctional system. Students will explore careers in each area, including job expectations and training requirements.

Contemporary World Issues Semester Social Science
Students analyze governments, economies, peoples, and cultures from around the world in this course. Instruction emphasizes the structures and policies of the United States and how they compare to other systems in the international community. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, the strengths and weaknesses of globalization, America’s role in the international economy, the severe environmental threats facing many regions around the world today, how religion is often used to facilitate and justify violence, and America’s War on Terror and its impact on the Middle East and Islamic culture.

Cosmetology Semester CTE
Students will explore career options in the field of cosmetology. Research into some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology-related businesses will also be presented. = .5 credit course/One semester course.
### Creative Writing Semester Language Arts
In this course, students will explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. Students will study examples of writing through classic and contemporary selections and will apply that knowledge and understanding to their writing. In addition, students will develop an intimate understanding of the writing process and its application to various projects. As students move through the course, they will understand and evaluate the writings of others, and be able to apply the evaluation criteria to their own writing. By the end of the course, students will have created a well-developed portfolio of finished written works. Learning activities include reading; listening; discussing; writing; multiple choice games; self-check activities; and reflective journals. The unit structure includes the broader idea of the unit as defined by the main heading. Units will include a combination of activities and will culminate in a submittal of the finished unit project. Unit projects will be developed in phases throughout each section of the unit. Unit lessons and performance tasks have been scaffolded carefully to help students achieve deeper levels of understanding.

### Criminology Semester CTE
In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors—from arrest to punishment—help shape the criminal case process?

### Digital Arts I Semester Fine Arts or CTE
In this exploratory course, students learn the elements and principles of design as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

### Digital Photography Semester CTE
In this one-semester course, students will learn the basics of photographic composition and lighting, develop an understanding of using a digital camera and the basics of preparing a digital darkroom. Students will also learn basic color theory and the fundamentals of image processing. Software skills are taught through practical, hands-on activities that get students involved in the learning process and help them retain the content. By the conclusion of this course, students are capable of producing their own unique and highly personalized images. This course is designed for the student who has no background in photography. = .5 credit course/One semester course

### Early Childhood Education Semester CTE
This course is for students who want to influence children during the most important years of human development—the first few years of life when they learn to walk, talk, run, jump, read, and write, among other milestones. The course focuses on how caregivers can help infants, toddlers, and children grow and develop in positive ways. Students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children. = .5 credit course/One semester course
Economics  Semester  CTE
In this one-semester credit recovery course, students gain a basic understanding of economics. The course uses real-world economic applications to help students better grasp a range of economic concepts, including macro- and microeconomic concepts. The course covers the American free enterprise system and addresses how this system affects the global economy. Students learn how to think like economists as they study economic principles and different economic systems. They analyze and interpret data to understand the laws of supply and demand. Examining the world of business, money, banking, and finance helps students understand how economics is applied both domestically and globally.

Environmental Science  Semester  Science
This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

Family & Consumer Science  Semester  CTE
In this course, students develop skills and knowledge to help them transition into adult roles within the family. They learn to make wise consumer choices, prepare nutritious meals, contribute effectively as part of a team, manage a household budget, and balance roles of work and family. They gain an appreciation for the responsibilities of family members throughout the life span and the contributions to the well-being of the family and the community.

Fashion & Interior Design  Semester  CTE
From the clothes we wear to the homes we live in, fashion and design is all around us. In this course, students who have a flair for fashion or who constantly redecorate their room find out what it is like to work in the design industry by exploring career possibilities and the background needed to pursue them. Students learn the basics of color and design, then test their skills through hands-on projects. They also learn essential communication skills that build success in any business. By the end of the course, students are well on their way to developing the portfolio needed to get started in this exciting field.

Forensic Science  Semester  Science
This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions. Prerequisites for Forensic Science are least two years of high school science including Biology (or equivalent); Chemistry is highly recommended. = .5 credit course/One semester course

Game Design  Semester  CTE
This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it’s on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development.
Gothic Literature  
**Semester**  
**Elective**  
Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for readers. Some of the recurring themes and elements found in the genre are also presented. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

Great Minds in Science  
**Semester**  
**Science**  
Is there life on other planets? What extremes can the human body endure? Can the global warming problem be solved? Today, scientists, explorers, and writers are working to answer all of these questions. Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world. This course focuses on ten of today’s greatest scientific minds. Each unit takes an in-depth look at one of these individuals, and shows how their ideas may help to shape tomorrow’s world.

History of Holocaust  
**Semester**  
**Social Studies**  
Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multidisciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and get glimpses of kindness and humanity in the worst of times.

Hospitality & Tourism  
**Semester**  
**CTE**  
With greater disposable income and more opportunities for business travel, people are traversing the globe in greater numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This course introduces students to hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other segments of the industry. Students learn about key hospitality issues; the development and management of tourist locations; event planning; marketing; and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

Image Design & Edit  
**Semester**  
**CTE**  
This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics, such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

Introduction to Culinary Arts  
**Semester**  
**CTE**  
Food is fundamental to life. Not only does it feed our bodies, but it’s often the centerpiece for family gatherings and social functions. In this course, students learn all about food, including food culture, food history, food safety, and current food trends. They also learn about the food service industry and how to prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students hone their cooking skills and gives them the opportunity to explore careers in the food industry. = .5 credit course/One semester course
Introduction to Entrepreneurship I  
Semester  
Elective  
In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business. = .5 credit course/One semester course

Introduction to Entrepreneurship II  
Semester  
Elective  
Students build on the business concepts they learned in Introduction to Entrepreneurship I. They learn about sales methods, financing and credit, accounting, pricing, and government regulations. They refine their technology and communication skills in speaking, writing, networking, negotiating, and listening. They enhance their employability skills by preparing job-related documents, developing interviewing skills, and learning about hiring, firing, and managing employees. Students develop a complete business plan and a presentation for potential investors. = .5 credit course/One semester course

Journalism  
Semester  
Language Arts  
Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

Life Skills  
Semester  
CTE  
This one-semester elective is designed to increase students' knowledge of and ability in using the skills necessary for everyday living. Life Skills emphasizes defining personal values, goal-setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their own community. The course is organized in six units, which cover the following topics: course introduction, thinking about yourself, thinking for yourself, taking care of yourself, caring for your relationships, and caring about your world.

Marketing 1  
Semester  
CTE  
Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management. = .5 credit course/One semester course

Modern US History  
Semester  
Social Science  
This course is a full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K¹²’s The American Odyssey: A History of the United States. Online lessons help students organize study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.
**Modern World Studies**  
**Semester**  
**Social Science**  
Students trace the history of the world from approximately 1870 to the present. They begin with a look back at events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Mythology & Folklore**  
**Semester**  
**Elective**  
Mighty heroes. Angry gods and goddesses. Cunning animals. Since the first people gathered around fires, mythology and folklore has been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, students journey with ancient heroes as they slay dragons and outwit gods, follow fearless warrior women into battle, and watch as clever monsters outwit those stronger than themselves. They explore the universality and social significance of myths and folklore, and see how these are still used to shape society today.

**Nutrition & Wellness**  
**Semester**  
**Elective**  
This one-semester elective course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition. The Nutrition and Wellness course emphasizes an understanding of today's food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions. Unit topics include a course introduction, wellness and food choices in today's world, digestion and major nutrients, and body size and weight management.

**Peer Counseling**  
**Semester**  
**CTE**  
Helping people achieve their goals is one of the most rewarding of human experiences. Peer counselors help individuals reach their goals by offering them support, encouragement, and resource information. This course explains the role of a peer counselor, teaches observation, listening, and empathic communication skills that counselors need, and provides basic training in conflict resolution, and group leadership. Not only will this course help prepare students to work as peer counselors, but the skills they learn will enhance their ability to communicate effectively in personal and work relationships.

**Philosophy**  
**Semester**  
**Elective**  
This one-semester course takes students on an exciting adventure that covers more than 2,500 years of history! Along the way, they run into some very strange characters. For example, they read about a man who hung out on street corners, barefoot and dirty, pestering everyone he met with questions. They learn about another eccentric who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the most brilliant and influential thinkers of all time. As students learn about these great thinkers, they come to see how and where many of the most fundamental ideas of Western Civilization originated. Students also get a chance to ask themselves some of the same questions these great thinkers pondered. By the time they “close the book” on this course, students have a better understand themselves and the world around them—from atoms to outer space—and everything in between.
Physical Science Semester Science
Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skill in measuring, solving problems, using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with hands-on laboratory investigations making up half of the learning experience.

Programming VB Net Semester CTE
Students learn basic programming and the essential concepts of VisualBasic.NET (VB.NET) in this one-semester course. As an introduction to VB.NET, students are taught the basic uses of the programming language, its similarities to the English language and others, its architecture, program flow, and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This course provides an introduction to programming that could lead to careers such as software engineer, developer, or game designer.

Programming II Java Semester CTE
This introductory-level course presents the understanding of Java and how to build and compile a stand-alone application (working with real-world scenarios). This course is designed especially for students who have very little background, but have taken the Programming I: VB.NET course. This course concentrates on Java programming language, built-in data types, control structures, classes, objects, inheritance, and polymorphism. By the end of the course the student will be able to write basic programs using Java as well as basic applets using updated techniques. Students can pursue further instruction in Java programming and other programming languages.

Psychology Semester Social Studies
In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

Public Speaking Semester Language Arts
Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety. = .5 credit course/One semester course

Reaching your Academic Potential Semester CTE
Students learn essential academic skills within the context of their learning style, individual learning environment, and long-term goals. This course helps students develop habits for more successful reading, writing, studying, communication, collaboration, time management, and concentration. It also provides insights into how the brain works when it is learning, and ways to maximize its potential.
Real World Parenting Semester CTE
What is the best way to care for children and teach them self-confidence and a sense of responsibility? Parenting involves more than having a child and providing food and shelter. Learn what to prepare for, what to expect, and what vital steps parents can take to create the best environment for their children. Parenting roles and responsibilities, nurturing and protective environments for children, positive parenting strategies, and effective communication in parent/child relationships are some of the topics covered in this course.

Service Learning Semester CTE
This project may be used in a variety of ways—as a stand-alone project, in conjunction with another course, or as a foundation around which to base a one-semester course. An introductory unit presents instruction on the nature of service learning. Students are taught how to identify community needs, select projects that are meaningful to themselves, apply practical skills, reflect on their learning experience, and behave responsibly in a service setting. Students then move on to design and conduct service learning experiences of their own, according to the requirements of their projects. Documents to support teachers in guiding students through the project are included.

Skills for Health Semester Elective
This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

Social Problems I Semester Social Studies
Students become aware of the challenges faced by social groups as they learn about the complex relationship among societies, governments, and the individual. Each unit focuses on a particular area of concern, often within a global context. Possible solutions at both the structural level as well as that of the individual are examined. Students learn more about how social problems affect them personally, and begin to develop the skills necessary to help make a difference in their own lives and communities, as well as globally.

Social Problems II Semester Social Studies
The Social Problems II course continues to examine timely social issues affecting individuals and societies around the globe. Students learn about the overall structure of the social problem as well as how it impacts their lives. Each unit focuses on a particular social problem, including racial discrimination, drug abuse, the loss of community, and urban sprawl, and discusses possible solutions at both individual and structural levels. For each issue, students examine the connections in the global arena involving societies, governments, and the individual.

Sociology I Semester Social Studies
The world is becoming more complex. How do your beliefs, values, and behavior affect the people around you and the world in which we live? Students examine social problems in our increasingly connected world, and learn how human relationships can strongly influence and impact their lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging course.

Sociology II Semester Social Studies
Sociology is the study of people, social life, and society. By developing a “sociological imagination” students are able to examine how society itself shapes human action and beliefs—and how in turn these factors re-shape society itself! Fascinating online video journeys not only inform students, but motivate them to seek more knowledge on their own.
Sports & Entertainment Marketing  Semester  Elective
A career in sports and entertainment marketing may be just the thing for students who dream about playing sports professionally or becoming an agent for a celebrity entertainer. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, students explore basic marketing principles and delve deeper into the multibillion-dollar sports and entertainment marketing industry. Students learn how professional athletes, sports teams, and well-known entertainers are marketed as commodities, and how some of them become billionaires as a result. They also get a glimpse how things work behind the scenes of major sporting events like the Super Bowl, and how they can play a role in such an event.

U.S. and Global Economics  Semester  Social Science
In this course, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism, such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East. = .5 credit course/One semester course

Veterinary Science  Semester  Science
As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. In this course, students take a look at the animals that live in our homes, on our farms, and in zoos and wildlife sanctuaries, and examine some of the common diseases and treatments for domestic animals. They also learn about toxins, parasites, and infectious diseases that affect not only the animals around us, but at times, humans as well! The course provides an overview of veterinary medicine and science, and how the prevention and treatment of diseases and other health issues are studied and applied.

Web Design  Semester  CTE
This one-semester course introduces students to the mechanics and elements of web design and HTML, the concepts of planning and organizing websites, and the documentation and copyright issues associated with website design. Students engage in a variety of project-based assessments to evaluate their understanding and progress. After completing the course, students are able to understand the planning and organization of a website, the elements of design and HTML, and the copyright and fair use doctrines that apply to website creation. Students also learn how to use a WYSIWIG editor and other online tools to create a website. The NVu software package is required for this course.

World Religions  Semester  Social Science
Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students trace the major developments in these religions and explore their relationships with social institutions and culture. The course also looks at some of the similarities and differences among the major religions and examines the connections and influences they have. = .5 credit course/One semester course