

# **Skyline High School**



**Registration  
Information  
2017 – 2018**

## Table of Contents – check page numbers when done

Registration Process .....	3
Graduation Requirements .....	4
Earning College Credit.....	5
Freshman Academy Information.....	6
IB Programme and Courses .....	6

### Skyline Courses

Art: Fine Arts .....	11
Business .....	13
Career and Technical Education - On-Campus .....	14 and 40
Driver Education .....	17
English .....	18
Family and Consumer Science .....	19
Mathematics.....	20
Performing Arts .....	24
Physical Education/Health .....	28
Publications .....	31
Science .....	31
Service Learning .....	34
Social Studies .....	34
Special Education .....	36
World Languages .....	36
LDS Seminary .....	40
Other .....	40

### Career and Technical Education

Career and Technical Education - On-Campus .....	14 and 40
Granite Technical Institute Courses - Off-Campus .....	44

# Registration

Skyline is on an eight-period block schedule. Each day students will attend two periods before lunch and two periods after lunch. Students registering for the 2017-2018 school year will sign up for classes according to the procedures outlined in this document and the registration card. **Students cannot request a particular period or teacher for their classes. Conflicts in scheduling may occur so all students must indicate alternate course choices on their registration card.**

You are registering for a full year. Students must register for a total of eight classes for both semesters. On the basis of your requests, courses will be created for the coming year. You are expected to become familiar now with the nature of the various subject offerings and to secure enough advice and counsel before registering to prevent changes in your schedule. You should secure this help from your teachers, counselors, parents, and from this booklet which is posted on Skyline's website: [www.graniteschools.org/hs/skyline](http://www.graniteschools.org/hs/skyline).

The following materials should be referred to during this registration process:

**1. Progress Toward Graduation sheet (PTG):** Counselors will give you your individual PTG during registration. Check your PTG sheet carefully to determine your remaining graduation requirements.

**2. Registration information:** In this document you will find helpful information with regards to:

\* Graduation Requirements

\* Course Descriptions with their prerequisites, fees, length, credit, etc. Use the course descriptions to determine which classes to take.

**3. Registration Card:** This card will be used to input your requests on the computer, so be accurate and provide all information requested.

Career Center approval is necessary for GTI and other off-campus classes.

## Miscellaneous General Registration Guidelines:

The following general guidelines need to be kept in mind when registering:

**A.)** Carefully consider college entrance requirements and career goals as you select your classes.

**B.)** Be sure to select classes carefully. After your registration card is submitted, a class change fee of \$5.00 will be charged for class changes. **Necessary class changes can be made during the first week of each term only. After that, classes will NOT be changed unless it concerns a graduation requirement or level change.**

**C.)** All students must take **at least two academic classes** each semester chosen from courses in English, Foreign Language, Math, Science and Social Studies. More academic classes are required for college, NCAA, NHS, etc.

**D.)** If a senior student wishes to qualify for the National Honor Society, at least 4 academic classes must be taken each semester and the student's GPA must be at least 3.70 and CPA must be at least 3.0 each term with no more than 1 "0" in citizenship per term. A student may also qualify by taking 3 AP or IB

classes per semester with a minimum 3.5 GPA and the same CPA requirement.

**E.)** A student cannot receive credit in any course with lower proficiency requirements than a course in the same area for which credit has already been received.

**F.)** Skyline has an "Open Door Policy" in regards to selecting Honors, Advanced Placement or IB classes. The administration encourages students to select appropriate rigor in their schedules. However, we caution students to select advanced classes only after thoughtfully considering their motivation, work ethic and complete schedule both in and outside school.

Extensive homework and outside preparation will be required. Skyline's staff enthusiastically supports students with their educational/career goals. We encourage students to take ownership of their schedules by talking to teachers, counselors and parents about next year's plan for class selection.

**G.)** If you expect to do well on the American College Test (ACT) you should take a strong academic program while in high school.

**H.)** To register for Driver's Education first semester, you must be 16 years old on or before February 23rd. To register for Driver's Education second semester, you must be 16 on or before July 18th.

You may register for the summer Driver's Education course if you will be 16 on or before October 30<sup>th</sup>.

**Learner's Permit should be secured before the first day of class.**

Student must have a minimum 2.0 CPA to get certificate.

**I.)** One unit of credit can be earned as an Office Aide or Teacher's Assistant in grades 10, 11, 12.

**J.)** Registration for Work Experience will be held in August. Call the Counseling Center for an appointment, 385-646-5421. Pick up required paperwork from the Counseling Center and bring completed forms to appointment.

**K.)** Seniors may have a maximum of one class period Home Release each semester. Home Release is **only** offered to seniors 1A, 4A, 1B, 4B. **No exceptions will be considered.**

**L.)** Only four units of credit may be earned in Coordinated Work Experience (2.0 GPA and CPA required.) This opportunity is only for seniors.

**M.)** Internship credit (.50) is offered for one semester in grade 11 or 12. See your counselor.

**N.)** Students shall not, on the basis of sex, handicap, racial or ethnic background, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any education program or activity. Any suspected violations of this policy should be reported to the student's counselor or the principal.

**O.)** Note that some courses require payment of extra fees. Take this into account when registering.

# Graduation Requirements

**\*Satisfactory adherence to school policies and rules.**

**\*Students are required to earn 27 academic credits and a cumulative citizenship grade point average (CPA) of 2.00 in grades 9, 10, 11, 12 in order to graduate.**

English	4 units
Social Studies (Geography, World Civilizations, US History)	3 units
US Government	.5 unit
Mathematics	3 units
Science (Earth Systems., Biology, Chemistry or Physics)	3 units
The Arts (Art, Drama, Dance, Music or AP Art Hist.)	1.5 units
Physical Education (Fitness for Life (.50) in 9th - 12th)	1.5 units
Career and Technical Education (Business, CTE or Family and Consumer Sciences)	1 unit
Health Education II	.5 unit
Computer Technology	.5 unit
Financial Literacy	.5 unit
Elective Units	8 units
<b>TOTAL</b>	<b>27 units</b>

**The International Baccalaureate Program** at Skyline is a rigorous, interdisciplinary, international college preparatory program. Current ninth-graders- if you are interested in doing this fantastic program, you must first apply and then interview with the coordinator, Christopher Krueger, to enter this program of study.

IB students are required to take six IB courses in at least five different academic disciplines during their junior and senior years and the Theory of Knowledge course. In addition, students are required to complete the extracurricular Creativity, Action and Service (CAS) component and to write a 4,000 word essay. This program allows students to make connections between disciplines and is an excellent preparation for college. College credit is usually granted for IB Diploma graduates here in Utah and around the world. Check with individual colleges.

Students who desire a rigorous pre-university academic program that focuses on a broad education in a number of areas may apply. IB students will take six rigorous academic classes each year starting in 10th grade. Successful candidates must have the required pre-IB course work, be motivated and committed.

**Please contact Christopher Krueger at Skyline ([ckrueger@graniteschools.org](mailto:ckrueger@graniteschools.org)) for questions, concerns, or application information. Copious Skyline IB information is posted at [skylineib.graniteschools.org](http://skylineib.graniteschools.org).**

## SOPHOMORES

### Required Courses

Students registering to be sophomores next year must take a full year of English and Social Studies. Fitness for Life, Health, Computer Technology, Math and a Core Science are also recommended during the sophomore year unless completed in 9<sup>th</sup> grade.

The 10th grade social studies requirement will be completed by registering for one of these options:

- (1) World Civilizations
- (2) AP World History
- (3) AP European History

The Sophomore English requirement will be completed by registering for one of these options:

- (1) English 10 or
- (2) Sophomore Honors English

## JUNIORS

### Required Courses

Most students registering to be juniors next year will need to take a full year of United States History. However, they may choose to take this class in their senior year. A full year of English is required and one semester of Physical Education is recommended.

The United States History requirement will be completed by registering for one of these options:

- (1) United States History 1 and 2 or
- (2) AP United States History or
- (3) United States History Honors

To complete the Junior English requirement, students will register for:

- (1) A full year of English 11 or
- (2) A full year of Junior Honors English.

## SENIORS

### Required Courses

Students registering to be seniors next year must take a full year of English, one semester of United States Government (recommended for Senior year) and at least one other academic semester class. In addition, seniors must complete all graduation requirements.

To complete the Senior English requirement, students must register for one of these options:

- (1) One year of English 12-World Literature, or
- (2) A full year of Advanced Placement Literature & Composition, or
- (3) A full year of English 12 Fundamentals. (By assignment only.) This class is not accepted by NCAA.

Home Release will be offered to seniors only for periods 1A, 4A, 1B, 4B. Seniors must have 2.0 GPA and CPA, and be on track for graduation. Seniors may take one credit only of Home Release as per USOE rules. If a senior has all credits needed to graduate they can finish filling their schedule with elective classes.

# Earning College Credit at Skyline 2017-2018

There are several ways to earn college credit as a student at Skyline High. If you are planning to attend college after graduation, please look carefully into these options. You will better prepare yourself for the college experience and gain valuable college credit for an extremely reasonable cost if you participate in one of these programs:

## A.P. PROGRAM

The **Advanced Placement (AP) Program** is a cooperative educational endeavor between secondary schools and **most** colleges and universities. It gives high school students exposure to college level material through involvement in an AP course, and then gives them an opportunity to show what they have learned by taking an AP Exam. Colleges and universities are then able to grant credit, placement, or both, to those students who score a 3 or higher on the AP Exam. Some schools require a 4 or 5 for credit.

AP exams are given in May at a cost of approximately \$91.00 for each exam taken (note: Students may opt not to take the exam.) The final grade is reported on a 5-point scale:

- 5=extremely well qualified
- 4=well qualified
- 3=qualified
- 2=possibly qualified
- 1=no recommendation

The results of AP Examinations are sent to candidates, their secondary schools, and the colleges they select. College and candidate grade reports, which contain a cumulative record of all AP grades earned by the student during the current and previous years, are sent in early July.

## A.P. Classes Offered at Skyline 2017-2018

<u>Art/Performing Arts</u>	Instructor
AP Art History	C. Wood
AP Music Theory	A. Larson
AP Studio Art	L. Darling
<u>World Languages</u>	
AP English Lit	J. Thackeray
AP French	
AP Spanish	I. Hofer
<u>Social Studies</u>	
AP U.S. History	M. Pickett/N. Krueger
AP European History	T. Clough
AP World History	W. Watts
AP American Government and Politics	B. Reid
AP Psychology	S. Lott
<u>Mathematics</u>	
AP Calculus BC	S. Schneider
AP Statistics	D. Long/J. Shelton
<u>Science</u>	
AP Biology	K. Affleck

AP Chemistry  
 AP Physics - Exam C  
 AP Environmental Science

C. Forster  
 M. Jasumback  
 J. Jones

## CONCURRENT ENROLLMENT PROGRAM

Concurrent enrollment classes are college level classes offered to high school students for both high school and college credit. In most instances, if a class is listed as concurrent enrollment, you are required to apply for the college credit. One application fee per college (\$35.00-\$40.00) allows you to take several of the concurrent enrollment classes for college credit. The state has also implemented a \$5.00 fee per credit. Students should meet the following criteria for Concurrent Enrollment:

- 3.0 GPA for seniors; 3.5 GPA for juniors
- completion of the application and reporting process

**Students must purchase the textbook.** See the teacher of the class for more information on concurrent enrollment. Concurrent Enrollment classes are marked with a CE after their title.

**It is the student's responsibility to apply (\$40.00 non-refundable fee) to the Salt Lake Community College by AUGUST 31st.** Students must also pay (to the college) a \$5.00 fee per credit hour (non-refundable).

**The following courses are offered for high school and college credit for 2017-2018 (see department listed for course description):**

**\*For additional College Concurrent offerings, see Off-Campus Classes.**

In conjunction with **Utah Valley University:**  
 Skyline H.S. SLCC Instructor

CTE  
 Sports Medicine CE PES 2500c(3 hrs) K. Robinson

In conjunction with **Salt Lake Community College**  
 Skyline H.S. SLCC Instructor

Business (Jrs. and Srs. only)  
 Economics Econ 1010c(3 hrs) A. Merrill  
 Financial Planning Fin 1050 (3 hrs) A. Merrill  
 Entrepreneurship Mgt 1100—(3) A Merrill  
 Business Management Mgt 1600—(3 hrs) A. Merrill  
 Intro to Marketing MKG 1030. (3 hrs.) A. Merrill

Science  
 Geology CE Geo 1010 (PS)--(3 hrs) M. Jasumback  
 Astronomy CE Astr 1040 (PS)--(3 hrs) M. Jasumback

CTE  
 Multimedia Design CE ART 1800c(4 hrs) K. Kapptie  
 (Adv) Year 2.0  
 Graphics I & II CE Art 1240—(3 hrs) S. Kennedy

# Freshman Academy Skyline High School - Course Description

Skyline High School is excited to introduce the implementation of our Freshman Academy course offered to all incoming 9th grade students beginning fall semester, 2017. This course empowers students with the knowledge and skills necessary for academic success. Students will be introduced to the necessary skills needed to prepare them to graduate from high school ready for college, career and life with confidence and competence. Students will learn how to navigate the high school system and how to monitor their progress toward graduation. In addition, the course will focus on life-skill development in areas such as time management, personal communication and goal setting. Academic planning, career exploration and information on options, opportunities and resources available to ensure high school and future success are also essential components of the class. An additional component of this course is the option to complete an online course, (i.e. Fitness for Life, Financial Literacy, Health or PE) or to have a designated study time during class.

Our goal at Skyline High School is to develop skills in students to promote academic success and to help them prepare to be active, engaged citizens of their communities. We'd like each student to graduate with the following attributes: inquirers, knowledgeable, thinkers, communicators, principled, open-minded, caring courageous, balanced and reflective. The freshman academy is the beginning of introducing students the skills needed to develop these attributes.

## Freshman Academy Standards

### **Navigating High School**

**Standard 1:** Demonstrate knowledge and understanding of how to effectively navigate high school.

#### **Study Skills**

**Standard 1:** Develop the skills to be self-directed, organized, and prepared for college, career and life

#### **Personal/Social Development**

**Standard 1:** Develop the skills to understand and appreciate themselves and others

**Standard 2:** Acquire self-knowledge and develop the skills to understand and appreciate self and others as a contributing citizen in our community

**Standard 3:** Be aware of and develop social and emotional skills

#### **Life/Career Development-Future Planning**

**Standard 1:** Explore and evaluate resources to become college, career and life ready

# International Baccalaureate Program

**FEES: SOPHOMORE PRE-IB - \$100.00.**

**JUNIORS and SENIORS - \$100.00 for Diploma candidates,  
\$25.00/class for non-Diploma candidates (up to a maximum of \$100.00)**

## **IB ENGLISH A1 HIGHER LEVEL 1 (573650)**

**Year** 11 1 credit

*Required Text Fee: approx. \$85*

This is the first year of a two-year program emphasizing the analysis of literature. Students begin to develop strong critical writing and thinking skills as they analyze poetry, novels, and plays. Students read world literature texts while developing critical thinking and writing skills that will prepare them for the IB examination in the spring of their senior year. Discussion based, seminar-style course. Students must complete an Oral Presentation based on four works studied in first semester and participate in the oral commentary. **SUMMER READING IS REQUIRED.**

## **IB ENGLISH A1 HIGHER LEVEL 2 (573670)**

**Year** 12 1 credit

***Prerequisite: IB English 11<sup>th</sup> grade***

This course is the second year of the two year diploma/certificate program. Students will continue to develop their critical writing and thinking skills and their oral communication. For external assessment, students must submit a written assignment based on works studied in class, and complete two timed assessments in May. **SUMMER READING IS REQUIRED.**

## **IB SPANISH B STANDARD LEVEL (563470)**

**Year** 11, 12 1 credit

***Prerequisite: Spanish 4***

This course is a continuation of Spanish 4, but at the Advanced Placement Level and in preparation for the IB Diploma. Four skills will be emphasized: speaking, reading, writing, and listening comprehension. These will be taught with higher thinking level skills, interdisciplinary awareness, and knowledge for understanding strategies. Students will be taught in-depth cultural information. Assessment of student progress will be made on a regular basis in preparation for the required IB Internal and External Assessments.

### **IB SPANISH B HIGHER LEVEL (563480)**

**Year** 12 **1 credit**

**Prerequisite:** *IB Spanish B SL*

This course is a continuation of Spanish 4 at the Advanced Placement Level and in preparation for the High Level Spanish Language Exam of the IB Diploma. Four skills will be emphasized: speaking, reading, writing, and listening comprehension. These will be taught with higher thinking level skills, interdisciplinary awareness, and knowledge for understanding strategies. Students will be taught in-depth cultural information. Assessment of student progress will be made on a regular basis in preparation for the required IB Internal and External Assessments.

### **IB FRENCH B STANDARD LEVEL (563300)**

**Year** 11, 12 **1 credit**

**Prerequisites:** *Juniors: French 3H; Seniors: French 4/5*

IB standard level French will offer students maximum communication and interaction opportunities in the four language skills of listening, speaking, reading and writing through the exploration of a wide range of francophone related texts and activities of different styles and registers. The course will be conducted in French, using authentic materials in a variety of contexts and forms, in order to help students develop written and spoken autonomy in understanding and communicating in both familiar and non-familiar situations.

### **IB FRENCH B HIGHER LEVEL (563330)**

**Year** 12 **1 credit**

**Prerequisite:** *IB French B SL or Permission from Ms. Young*

This class is only available for those students who have spent significant time living in France.

### **IB MANDARIN B STANDARD LEVEL (563430)**

**Year** 11, 12 **1 credit**

**Prerequisite:** *Chinese 4*

IB standard level Mandarin Chinese is the Mandarin class designed for those that have been studying the language since seventh grade or perhaps even earlier. Students will finish the class with basic conversational Mandarin skills. The class will be taught mostly in Mandarin, and students will be expected to know several hundred characters before beginning the class.

### **IB MANDARIN B HIGHER LEVEL (563440)**

**Year** 12 **1 credit**

**Prerequisite:** *IB Mandarin B SL*

IB higher level Mandarin Chinese is the Mandarin class designed for those that have been studying the language since seventh grade or perhaps even earlier. Students will finish the class with a high level of mastery of Mandarin. The class will be taught almost entirely in Mandarin. Students will be expected to know well over 500 characters before beginning the class.

### **IB MANDARIN AB INITIO 1 (563400)**

**Year** 10, 11 **1 credit**

IB ab initio Mandarin Chinese will offer students a minimal level of competency in the language. It is designed for students who don't begin studying a second language until their sophomore year. This is a very basic "survival skills" Mandarin class. Students completing this two-year course will have weak comprehension of Mandarin Chinese.

### **IB MANDARIN AB INITIO 2 (563420)**

**Year** 11, 12 **1 credit**

**Prerequisite:** *IB Mandarin ab initio 1*

IB ab initio Mandarin Chinese will offer students a minimal level of competency in the language. It is designed for students who don't begin studying a second language until their sophomore year. This is a basic "survival skills" Mandarin class. Students completing this two-year course will have weak comprehension of Mandarin Chinese.

### **IB EUROPEAN HISTORY HIGHER LEVEL 1 (586520)**

**Year** 11 **1 credit**

IB European History is a two year course. The first year is a survey of European history starting with the Renaissance, concluding with the collapse of the USSR. First year IB history students are co-seated within Mr. Clough's AP European History. The Honors Program is less rigorous but provides exposure to 20th century Chinese and Middle East history. If they choose, students taking AP European History would be qualified to take the AP exam at the end of the year. The Historical Investigation paper will be written fourth quarter of your first year.

### **IB EUROPEAN HISTORY HIGHER LEVEL 2 (586530)**

**Year** 12 **1 credit**

IB European History is a two year course. Second year is an in-depth study of 1900-1950 Germany, including WWI, WWII, and the

interwar period. About 25% of the course will cover China over the same period. Students have the option of taking the SL or HL history exam at the end of their senior year.

### **IB PSYCHOLOGY STANDARD LEVEL (586560)**

**Year** 11, 12 1 credit

A comprehensive study of the diversity of human behavior. This rigorous course falls under the IB subject group: Individuals and Societies. Students will study human behavior and experience by closely examining the biological perspective, learning & cognition, social psychology and psychological disorders. Students will also learn research methods and conduct a compulsory experimental study. One paper is required. Because this course is part of the IB Diploma Programme, students must submit to the guidelines and directives of the IB organization. Students that have taken AP Psychology as juniors may choose to take the IB HL exam in this subject. Some independent study will be necessary for that choice.

### **IB FINANCIAL LITERACY SL (690881)**

**Semester** 11, 12 .50 credit

**Fee: \$10.00**

The course will cover the essential components of personal finance required by the state Financial Literacy requirement, but in more depth and detail. Topics include: credit, savings, interest, employment, marketing, and the monetary cycle. This is a demanding academic class to prepare students for IB Economics. Students should expect a substantial homework load every week. This course fulfills the state .5 Financial Literacy Credit.

### **IB ECONOMICS SL (586540)**

**Year** 11, 12 1 credit

**Prerequisite:** *IB Financial Literacy SL taken previously or currently enrolled*

This is the continuation of the material begun in the IB Financial Literacy course. Students will vigorously explore advanced economics concepts including market types, supply and demand, elasticity, market failure, cost and price, monetary policy, fiscal policy, inflation, unemployment, international economics, and developing economies. This is a rigorous class, students taking this class should expect several hours of homework every week. Students completing the class may choose to take the IB Economics test for which they may receive college credit. This course also fulfills the state 1.0 CTE credit.

### **IB ART HISTORY SL (520770)**

**Year** 11, 12 1 Fine Arts or elective credit

**Fees: \$15.00**

**Optional text purchase (not required):** *Art Through the Ages: A Global History, 13<sup>th</sup> edition, ~\$117.00*

**Prerequisite:** *World Studies, World Studies Honors, or currently taking AP European History*

This Art History course will be taught at the Introductory University Level and is designed to cover the history of Western Art from early civilizations through modern art including painting, sculpture and architecture and will also touch on the art of India, China, Japan and Africa. Students will learn about the art and artists from various periods as well as the political, religious and cultural forces that influenced the making of the art works. We will also consider commentaries and criticisms about the art from the periods and later eras. This is a highly visual class. Many slides are shown and several field trips to local museums and churches will be arranged. An optional trip to San Francisco to see world class art will be offered. No artistic drawing skill is needed. IB students will develop specialty areas of study within this framework. This class will change and enrich your life!

### **IB BIOLOGY HIGHER LEVEL 1 (603300)**

**Year** 11 1 credit

**Lab Fee: \$40.00**

**Prerequisite:** *Chemistry, preferably honors chemistry*

Biology Higher Level is directed at students who desire a rigorous course of study in life sciences. This course will prepare students for university programs in medicine, nursing, research, bioengineering, etc. where mastery of life sciences is required. Furthermore, they will be introduced to scientific methods and proofs. Additional emphasis will be placed upon the written expression of their conclusions. This broad-based course is co-seated with AP Biology. Students completing the course may elect to take the AP biology examination at the end of the year.

### **IB BIOLOGY HIGHER LEVEL 2 (603310)**

**Year** 12 1 credit

**Lab Fee: \$40.00; Prerequisite:** *Biology HL1*

IB Biology HL 2 is designed to not only give students a comprehensive body of biological knowledge, but also to equip students with the skills necessary to do biology. An in-depth study of neurology, human physiology, botany and evolution add to students' knowledge from HL1. Approximately 50% of the second year is spent designing, performing and analyzing biological experiments to become effective life science investigators.

### **IB CHEMISTRY STANDARD LEVEL (603330)**

**Year** 11, 12 1 credit

**Lab fee \$40.00; Prerequisite:** *Chemistry 1-2 Honors (10th Grade)*

110 hours in-class theory and optional topics. 40 hours out of class lab and group 4 project work. The purpose of this course is to provide students with one year university type chemistry course that will enable them to understand many of the major concepts and principles of chemistry and how they affect and apply to their lives. Since chemistry is an experimental science, it combines academic study with a mix of practical and investigative labs. This course in chemistry helps a person experience how a scientist



thinks about the world and how problems can be solved. The knowledge, skills, and processes developed in this course will be beneficial in future studies and career paths that the student can take.

### **IB CHEMISTRY HIGHER LEVEL (603340)**

Year 12 1 credit

**Lab fee \$40.00; Prerequisite: Chemistry 1-2 Honors (10th Grade), IB Chemistry Standard Level (11<sup>th</sup> Grade)**

110 hours in-class theory and optional topics. 65 hours out of class lab work required. The purpose of this course is to provide students with a second year university type chemistry course that will enable them to understand many of the major concepts and principles of chemistry and how they affect and apply to their lives. Since chemistry is an experimental science, it combines academic study with a mix of practical and investigative labs. The knowledge, skills, and processes developed in this course will be beneficial in future studies and career paths that the student can take.

### **IB COMPUTER PROGRAMMING 2 (640520)**

Year 11, 12 1 credit

**Prerequisite: Computer Programming I**

This is a second year programming/CS course catered to students pursuing IB/AP computer science. Students will continue the study of prominent object oriented languages including C++, Java and C# in preparation for the applicable state and/or AP/IB exams. Current hardware, operating systems, applied electronics and up to date IDE's are all used in approaching highly technical and real world solutions resulting in skilled jobs and excellent education opportunities."

### **IB PHYSICS STANDARD LEVEL (603360)**

Year 11, 12 1 credit

**Lab fee \$40.00; Prerequisite: Secondary Math III**

110 hours in-class theory and optional topics. 40 hours out of class lab and group 4 project work. The purpose of this course is to provide students with one year university type physics course that will enable them to understand many of the major concepts and principles of physics and how they affect and apply to their lives. Since physics is an experimental science, it combines academic study with a mix of practical as well as investigative labs. This course in physics helps a person experience how a scientist thinks about the world and how problems can be solved. The knowledge, skills, and processes developed in this course will be beneficial in future studies and career paths that the student can take. Students may have taken H physics, but it is not required. Intermediate Algebra is required as a prerequisite, and Pre-calculus is preferred. We won't offer this course unless enough students enroll to make it carry as a stand-alone course.

### **IB MATH STUDIES STANDARD LEVEL (580400)/**

Year 11, 12 1 credit

**Lab Fee: \$10.00; Pre-requisite: Secondary Math III**

Mathematical Studies Standard Level is a course designed to give students a diverse mathematics experience. Topics will include number theory, advanced algebra and analysis including financial applications. In addition, there will be an introduction to probability, statistics and differential calculus.

### **IB MATHEMATICS HIGHER LEVEL 1 (Calculus BC) (580300/580310)**

Year 10, 11, 12 2 periods, 2 credits

**Concurrent with AP Calculus BC (2 periods, meets every day)**

**Lab Fee: \$10.00**

**Prerequisite: Secondary Math III H**

Mathematics Higher Level with the Differential Calculus Option is directed at students who desire a rigorous course of study of mathematics. This course will prepare students for university programs in engineering and the sciences where mastery of mathematics is required. Students will be given the opportunity to apply their mathematical knowledge to a variety of meaningful problems. Furthermore, they will be introduced to scientific methods and proof. Additional emphasis will be placed upon the written expression of their conclusions. **Prepares students for the AP Calculus BC exam.**

### **IB MATHEMATICS HIGHER LEVEL 2 (Statistics) (580350)**

Year 11, 12 1 credit

**Lab Fee: \$10.00**

**Prerequisite: AP Calculus BC**

**Mathematics Higher Level with the Statistics Option** is directed at students who desire a rigorous course of study of mathematics. This course will prepare students for university programs in engineering and the sciences where mastery of mathematics is required. Students will be given the opportunity to apply their mathematical knowledge to a variety of meaningful problems. Furthermore, they will be introduced to scientific methods and proof. Additional emphasis will be placed upon the written expression of their conclusions. **Prepares students for AP Statistics exam.**

### **IB FURTHER MATH HL (580450)**

Year 11, 12 1 credit

**Lab Fee: \$10.00**

**Prerequisite: IB Mathematics HL1 and/or AP Calculus BC and concurrent with IB Math HL 2 (Statistics.)**

Further Mathematics Higher Level is designed for students who intend to specialize in mathematics at the university level. This course requires a high degree of competence and interest in the subject. Students will review trigonometry, calculus, vectors, series,

differential equations and probability and statistics. In addition, they will study discrete math; and sets, relations, and groups. Students will be prepared to take the AP Statistics exam and/or the IB Further Mathematics HL exam at the end of the year.

### **IB DANCE STANDARD LEVEL (520700)**

**Year** 11, 12 **1 credit**

This yearlong course is a deep study of dance composition, investigation of all forms of dance as well as dance performance. Each student will experience the extensive preparation of performance, concepts of in-depth choreography as well as the past and present history and progression of dance. Students will relate dance into daily actions, relations will be made from deep muscle connections, abstract to physical motions, mind to body and attitude to performance. This demanding academic course will include several hours of homework each week; students will compile and create choreography and a portfolio of the yearlong process. IB exams will be taken at the end of the year. Materials in which students will be assessed on include 2 choreographed dance works totaling 10 minutes of choreography, a Dance Investigation report 1,500 words, and 1 or 2 performances totaling 6 minutes. This course may be repeated for those students wishing to complete the HL Dance course.

### **IB DANCE HIGHER LEVEL (520720)**

**Year** 12 **1 credit**

This yearlong course is a deep study of dance composition, investigation of all forms of dance as well as dance performance. Each student will experience the extensive preparation of performance, concepts of in-depth choreography as well as the past and present history and progression of dance. Students will relate dance into daily actions. Relations will be made from deep muscle connections, abstract to physical motions, mind to body and attitude to performance. This demanding academic course will include several hours of homework each week; students will compile and create choreography and a portfolio of the yearlong process. IB exams will be taken at the end of the year. Material in which students will be assessed on include three choreographed dance works totaling 15 minutes of choreography, a Dance Investigation report 2,500 words, and two or three performances totaling nine minutes.

### **IB MUSIC STANDARD LEVEL (520800)**

**Year** 11, 12 **1 credit**

This class is an advanced in-depth exploration of music history, aural skills, composition, rhythm study, and world music. Students are expected to complete the External Assessments (which include the *Listening Paper* and *Musical Links Investigation Paper*) and 75 hours of work in one of three compulsory options; solo performance (SLS), group performance (SLG), or composition (SLC). Students are expected to have a basic understanding of music notation. Students are also *required* to be concurrently enrolled in an instrumental/choral ensemble.

### **IB MUSIC HIGHER LEVEL (520820)**

**Year** 11, 12 **1 credit**

This class is an advanced in-depth exploration of music history, aural skills, composition, rhythm study, and world music. Students are expected to complete the External Assessments (which include the *Listening Paper* and *Musical Links Investigation Paper*) and 150 hours of work in two main compulsory areas - solo performance and music composition. Students are expected to have a basic understanding of music notation. The students' 1<sup>st</sup> year of HL Music will be spent in a performance ensemble. The second year will be spent in the AP Theory / IB Music class. It is *expected* that the students will continue to be enrolled in a performance ensemble during their second year of HL Music.

### **IB THEATRE STANDARD LEVEL (520900)**

**Two Years** 11, 12 **1 credit per year**

**Fee: \$20 per year**

This is a rigorous *two-year* study of theatre. The Theatre Arts Program will help students develop a life-long appreciation of theatre through understanding the nature of theatre; an understanding that develops by studying, researching, creating and performing. Each student will be expected to experience theatre through their senses, through their involvement, through group process, and through the role that theatre takes on in their own culture and in other cultures. This demanding academic course will include several hours of homework per week. Students will develop a portfolio representing both performance and production of theatre, as well as extensive writing analysis of theater. IB assessments will be completed at the end of the *second* year. This course should be repeated for those students wishing to take the IB assessments.

### **IB THEATRE HIGHER LEVEL (520920)**

**Two Years** 11, 12 **1 credit per year**

**Fee: \$20 per year**

This is a rigorous *two-year* study of theatre. The Theatre Arts Program will help students develop a life-long appreciation of theatre through understanding the nature of theatre; an understanding that develops by studying, researching, creating and performing. Each student will be expected to experience theatre through their senses, through their involvement, through group process, and through the role that theatre takes on in their own culture and in other cultures. This demanding academic course will include several hours of homework per week. Students will develop a portfolio representing both performance and production of theatre, as well as extensive writing analysis of theater. IB assessments will be completed at the end of the *second* year. This course should be repeated for those students wishing to take the IB assessments. This course has an additional assessment, and more rigorous course standards than the standard level.

### **IB VISUAL ARTS STANDARD LEVEL (520740)**

**Year** 11, 12 **1 credit**

**Fee: \$35.00**

**Prerequisite: *Painting 1-2***

This full year IB Visual Art course allows students to make personal, sociocultural, and aesthetic experiences meaningful through the production and understanding of art. Students explore different cultures, experiment with new and interesting art materials, and learn about themselves through art. They are able to express their ideas, opinions and judgments, develop their own sense of taste, and expand their perspective of themselves within cultural and historical context. Students will be assessed based on personal art-related research and the depth and breadth of their studio work. This course is required for students who wish to take Higher Level IB Visual Art during their senior year.

**IB VISUAL ARTS HIGHER LEVEL (520760)**

**Year** 12 **1 credit**

**Fee: \$35.00**

**Prerequisite: *IB Visual Art Standard Level***

This full year course is an extension of the Standard Level course and is for the dedicated student due to the amount of work required. Students are encouraged to develop a personal view of the world by discovering ways of seeing and perceiving the world through art. Students will be asked to have a lively, inquiring, and informal attitude towards the rich artistic heritage of many cultures, both modern and historic. Students will be assessed based on personal art-related research and the depth and breadth of their studio work.

**IB THEORY OF KNOWLEDGE 1 (JRS) (586581)/****IB THEORY OF KNOWLEDGE 2 (SRS) (586591)**

**Required for all IB students.**

**Semester** 11, 12 **.50 credit each semester**

The TOK class challenges students to reflect critically on the different ways by which we know things -- emotion, reason, language, and perception. Students will also link different areas of knowledge such as ethics and science, math and art, natural sciences and history, etc. Class format will focus on questioning, debate/discussion and readings. Presentations and essays will also be required.

**IB EXTENDED ESSAY (IB SENIORS ONLY) (692403)**

**Year** 12 **.25 credit**

This is a required independent study class for all senior IB students. Students will investigate, plan and execute an original, 14-page research paper on a topic of his/her choice. There will be summer assignments. This class ends at the end of first quarter, senior year. Elective credit only. See Mr. Krueger for details.

## **ART: FINE ARTS**

Every student is an artist whether they create for fun, personal expression, or to learn skills for a future career. Planning and producing works of art, beginning with the simplest materials, leads to greater thinking and creative power for all life situations as well as the potential for personal satisfaction.

**AP ART HISTORY AP (501650)**

**Year** 10, 11, 12 **1 Fine Arts or elective credit**

**Fees: \$15.00. Optional AP test-- cost: Approx. \$91.00**

**Recommended text purchase (not required): *Art Through the Ages: A Global History, 13<sup>th</sup> edition, Approx. \$117.00***

AP Art History is designed to cover the history of Western Art from early civilizations through modern art including painting, sculpture and architecture as well as some art from India, China, Japan and Africa. Students will learn about the art and artists from various periods, as well as the political, religious and cultural forces that influenced the making of the art works. The class is highly visual. Many slides will be shown and several field trips to local museums and churches will be arranged. An optional trip to San Francisco to see world class art is also planned. No artistic drawing skill is needed. Colleges and universities may grant up to eight hours of credit to students who pass the AP test with a "3" or better. This class will change and enrich your life!

**DRAWING 1 (502001)**

**Semester** 9, 10, 11, 12 **.50 credit**

**Fee: \$20.00**

This is a great introductory class which is based on learning the elements and principles of art. Students will study composition, learn about both classical and contemporary artists, and experiment with a variety of techniques and materials. These materials will include graphite (pencil), pen, charcoal, collage, watercolor, colored pencil, and chalk. During this class your drawing skills will improve and you will also become more confident about your abilities.

**DRAWING 2 (502101)**

**Semester** 9, 10, 11, 12 **.50 credit**

**Fee: \$20.00**

This class builds on the skills learned in Drawing 1 but is also appropriate for students with a little bit of drawing experience. We will focus on drawing from life (faces and figures, landscapes, still life) but we will also experiment with abstract drawings, color combinations, and large format drawing. You will use graphite (pencil), pen, charcoal, collage, watercolor, colored pencil, and chalk.

**DRAWING 3 (502301)**

**Semester** 11, 12 **.50 credit**

**Fee: \$20.00**

**Recommended Prerequisite: Drawing 1 or 2**

Students will explore a broad range of approaches to art through sketching and formal drawing techniques using media such as graphite (pencil), pen, charcoal, collage, watercolor, colored pencil, and chalk. You will refine your skills and have the opportunity to develop your own style and work on independent projects. Students will improve their creative approach and critical judgment.

**PAINTING 1 (503001)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$35.00**

In Painting 1 you will be introduced to a variety of fun and unusual painting techniques. We will explore the elements and principles of art with a strong focus on composition, color theory, and value. We will study the work of exciting contemporary artists and experiment with a variety of materials which will include watercolor, acrylic paint, coffee, sumi ink and bamboo brush. We will also spend time painting outside in good weather. Your painting skills will improve and you will be able to express yourself through your paintings.

**PAINTING 2 (503011)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$35.00**

This class builds on the skills developed in Painting 1 but is also appropriate for students with a little bit of painting experience. Students will explore many diverse art techniques and approaches as ways of communicating their ideas. The materials we will use include watercolor, acrylic paint, coffee, sumi ink and bamboo brush. Students will leave the class with skills needed to take advanced art courses including Painting 3-4, AP Art, and IB Art classes.

**PAINTING 3-4 (503101)**

**Semester** 11, 12 .50 credit

**Fee: \$35.00**

**Recommended Prerequisite: Painting 1 or 2**

This class builds on the skills developed in Painting 1 and 2. We will focus on painting from life and in more abstract ways. You will also be given the opportunity to develop your own style and work on independent projects. The materials we will use include watercolor, acrylic paint, coffee, sumi ink and bamboo brush. Students will leave the class with skills needed to take advanced art courses including AP Art, and IB Art classes.

**AP 2D STUDIO ART (502500)**

**Year** 11, 12 1 credit

**Fee: \$35.00, Optional AP test-- cost: Approx. \$91.00**

**Recommended Prerequisite: Drawing 1 or 2 and Painting 1 or 2**

The two primary goals of this class are to prepare a portfolio of work for the AP test in mid-April and to develop your art skills and yourself as an artist. This class is challenging yet exciting. You will have assignments which are very structured, and an equal number of assignments which allow for a great deal of freedom and personalization. During this class you will also develop a healthy artistic practice as you work with a broad range of materials and techniques.

**JEWELRY 1 (505851)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$35.00**

Students learn basic fabricating and casting techniques. Opportunities to design, produce and repair a variety of pendants, rings, and bracelets. Lapidary, the art of stone cutting and polishing, will also be taught.

**CERAMICS 1 (506001)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$25.00**

This is an introductory class which is based on learning basic ceramic hand-building skills such as pinch pot, coil, and slab as well as glazing and firing. Some wheel throwing may be included. Students will develop the ability to manipulate clay into specific forms through a variety of processes. In addition, they will learn about the history of ceramics and the importance of ceramics in contemporary art.

**CERAMICS 2 (506051)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$35.00**

**Prerequisite: Ceramics 1**

This is an advanced class in which students will concentrate on wheel throwing and hand-building techniques. This class is for the student who has taken Ceramics 1 and is ready for more rigorous and complex work. The emphasis will be on making both functional and decorative projects. Students will study the history of ceramics and have opportunities to work with alternative methods and materials. Students will also be given the opportunity to work on independent projects.

**CERAMICS 3 (506101)**

**Semester** 11, 12 .50 credit

**Fee: \$25.00**

**Prerequisite: Ceramics 1 and 2**

This is a continuation of Pottery 2. Students will do a variety of wheel thrown and hand built projects. Students will be expected to have 10-15 projects per quarter. Students will provide their own tools from their previous Ceramics class.

### **3D DESIGN (505501)**

Semester 9, 10, 11, 12 .50 credit

**Fee: \$25.00 shop fee plus specific charges for optional individual projects**

**Prerequisite: Drawing 1 recommended**

Students will have hands on experience working with materials which may include tie dye, jewelry design and casting, glass etching, enamels and lapidary. This course is design oriented with several sketches required for most projects.

## **BUSINESS**

### **CONCURRENT ENROLLMENT CLASSES with SLCC (CE)**

**College Registration Fee: \$40.00 (one-time fee) Partial Tuition Fee: \$5.00 per credit**

**It is the student's responsibility to apply (\$40.00 non-refundable fee) to the Salt Lake Community College by AUGUST 31st.** Students must also pay (to the college) a \$5.00 fee per credit hour (non-refundable).

### **INTERNATIONAL FINANCE/ECONOMICS CE- Econ 1010 (613651)**

Semester 11, 12 .50 credit

**Must be taken as a concurrent enrollment class.**

**College Registration Fee: \$40.00 (one-time fee)**

**Partial Tuition Fee: \$5.00 per credit**

Economics as a Social Science reveals the basic economic problem of scarcity facing every individual, every business, every government, and every society. Because of scarcity, in all cases, total wants and needs exceed available financial and real resources. Scarcity demands that choices between alternative use of limited resources. These choices force opportunity costs upon individuals, businesses, governments and societies. Economics examines the decision making process through observation and provides models that allow a student to conceptualize and project behavior given decision criterion.

### **ENTREPRENEURSHIP (SMALL BUSINESS MANAGEMENT)- Mgmt 1100 (612601)**

Semester 11, 12 .50 credit

**Must be taken as a concurrent enrollment class.**

**College Registration Fee: \$40.00 (one-time fee)**

**Partial Tuition Fee: \$5.00 per credit**

This course presents fundamental needs of small business management and ownership. Small Business Management 1100 is organized around the creation, assessment, growth development, and operation of new and emerging ventures. Broad topics will be covered which include: evaluating the current business environment, steps to complete before you start your business, acquiring and managing financial resources, marketing activities, and communication effectively in the business environment.

### **BUSINESS MANAGEMENT CE MGMT 1600 (613221)**

Semester 11, 12 .50 credit

**Must be taken as a concurrent enrollment class.**

**College Registration Fee: \$40.00 (one-time fee)**

**Partial Tuition Fee: \$5.00 per credit**

This course was developed to help you understand the role of the manager in the business environment. The primary goals during the semester are:

1. To engage your interest in those attributes that make a good manager.
2. To explain management principles and theories with examples, **terms** and situations.
3. To help the student learn the language of management.
4. To translate these principles and theories into tools that can be used in the everyday practice of management and life.

### **INTRO TO MARKETING CE - MKTG 1030 (612661)**

Semester 11, 12 .50 credit

**Must be taken as a concurrent enrollment class.**

**College Registration Fee: \$40.00 (one-time fee)**

**Partial Tuition Fee: \$5.00 per credit**

This course in Introduction to Marketing covers a wide range of basic marketing concepts. The major objective of this class is to establish a foundation of the marketing process. The course material is designed to develop knowledge of both general and specialized marketing terms. Objectives for each subject unit are listed at the beginning of each section of your text.

### **FINANCIAL PLANNING CE FIN 1050 (613311)**

Semester 11, 12 .50 credit

***Must be taken as a concurrent enrollment class.***

***College Registration Fee: \$40.00 (one-time fee)***

***Partial Tuition Fee: \$5.00 per credit***

This course presents the student with a practical treatment of the basic issues of day-to-day household finances. It will emphasize setting financial goals, no matter what one's personal financial situation may be, with an end towards obtaining control of one's life and achieving personal financial improvement and success. Students will be introduced to the empowering (dynamic) world of e-commerce and its many applications in the field of personal finance. Some of the subjects that will be discussed are financial planning and decision making, financial services, income taxes, consumer buying, insurance, investments, and retirement and estate planning.

### **OTHER BUSINESS AND FINANCIAL LITERACY CLASSES**

#### **ENTREPRENEURSHIP (612401)**

Semester 9, 10, 11, 12 .50 credit

Students will gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business. Students will become aware of the traits and characteristics of successful entrepreneurs. Students will gain an awareness of knowledge needed in research, planning and regulations affecting the small business and the means of financing a small business. They will understand the specific strategies of business management and marketing and the economic role of the entrepreneur in the market system. Entrepreneurship is designed for students enrolled in business and marketing education, and/or other courses, who have an interest in developing the skills, attitudes, and knowledge necessary for successful entrepreneurs.

#### **FINANCIAL LITERACY (690801)**

Semester 11, 12 .50 credit

***Graduation requirement***

***Lab Fee: \$10.00***

Including financial literacy in the core curriculum is a bold move provided for by Public Education Amendment SB 154 to help Utah's youth better prepare for the choices and challenges of today's financial markets. A better understanding of personal finance will help students move into adulthood making more informed monetary decisions, realizing a greater potential for personal wealth, and fostering a stronger state and national economy. Units of study will include instruction in the areas of managing income and expenses of adult life, money management techniques, intelligent use of credit, savings and investment options, consumer protection, and risk management, along with other relevant financial topics.

#### **ACCOUNTING 1 (610801)**

Semester 9, 10, 11, 12 .50 credit

***Fee: \$29.00 This pays for Aplia Website use for working papers***

Accounting is an excellent course for any high school student who is planning a business or marketing career. Students will learn beginning financial record keeping principles and procedures including making journal entries, posting ledger accounts, preparing and interpreting basic financial statements, and performing business banking procedures. Most of this course will involve sole proprietorship accounting for a service business. However, merchandising accounting and partnerships will be introduced near the end of the course.

#### **BUSINESS LAW (610701)**

Semester 9, 10, 11, 12 .50 credit

Mock Trials, actual case studies, and classroom discussion are all used in this course designed to teach students the basic differences between criminal and civil law. Emphasis is given to law in personal matters such as law for the minor, employment and family law, contracts, and sales.

## **Career and Technical Education**

### **You Design Your Future!**

**\*\*Many classes are CE classes. (Concurrent Enrollment College Course)**

**It is the student's responsibility to apply (\$40.00 non-refundable fee) to the Salt Lake Community College by AUGUST 31st.**

Students must also pay (to the college) a \$5.00 fee per credit hour (non-refundable).

### **CTE (On Campus Classes)**

**NOTE: Granite Technical Institute Course that are Off Campus are listed beginning on page 40**

#### **SPORTS MEDICINE CE (645250/645200)**

Year 11, 12 1 CTE or elective credit, 3 CE credits

***Prerequisite: Biology/Anatomy and Physiology or see Mrs. Robinson (rm. 135)***

**Concurrent enrollment registration through UVU is available but not required. \$35.00**

**Lab Fee: \$20.00 per year**

**Partial Tuition Fee: \$5.00 per credit**

This course is designed to teach students components of Exercise Science including detailed anatomy, injury evaluation, management, and rehabilitation. Health careers associated with Exercise Science, such as physical therapy and athletic training, will be explored. Students learn the elements of first aid and experience firsthand the prevention, evaluation, and treatment of injuries.

### **DIGITAL MEDIA I (640000)**

**Year** 9, 10, 11, 12      **1 CTE or elective credit**

**Fee: \$20.00 per year**

Designed specifically for students who want to develop their creativity using exciting, new multimedia/computer technologies. Students will use a variety of computer software to learn photo manipulation, graphic design, web design, animation, digital music composing, and video production. As part of the class, students may optionally participate in an annual film-festival. Students will leave the class with an interactive portfolio showcasing the year's work.

### **DIGITAL MEDIA II (640100)**

**Year** 10, 11, 12      **1 CTE or elective credit**

**Prerequisite: Digital Media I**

This second year of Multimedia is designed to train students in marketable skills for the production of multimedia. Students will expand the knowledge they learned in Multimedia Design as they take a deeper exploration in 3-D graphics, animation, scripting, storyboarding, video production, audio mixing, and project development. This is the place to create a portfolio for college and/or future employment.

### **COMPUTER SCIENCE PRINCIPLES (640610)**

**Year** 10, 11, 12      **1 CTE or elective or Science credit**

**Prerequisite: Computer Technology or Exploring Computer Science**

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.

### **COMPUTER PROGRAMMING 1 (640400)**

**Year** 9, 10, 11, 12      **1 CTE or elective or 3<sup>rd</sup> year Math credit**

**Prerequisite: Exploring Computer Science or Computer Technology**

**If you have not met the prerequisite you may take it simultaneously with Exploring Computer Science.**

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. Introduction to programming language such as C++, C#, Java, Python and Processing. This course may also be taken to fulfill a third math credit requirement.

### **COMPUTER PROGRAMMING 2 (640520)**

**Year** 10, 11, 12      **1 credit**

**Prerequisite: Computer Programming I**

This is a second year programming/CS course catered to students pursuing IB/AP computer science. Students will continue the study of prominent object oriented languages including C++, Python, Java and C# in preparation for the applicable state and/or AP/IB exams. Current hardware, operating systems, applied electronics and up to date IDE's are all used in approaching highly technical and real world solutions resulting in skilled jobs and excellent education opportunities."

### **IB COMPUTER PROGRAMMING 2 (640520)**

**Year** 11, 12      **1 credit**

**Prerequisite: Computer Programming I**

This is a second year programming/CS course catered to students pursuing IB/AP computer science. Students will continue the study of prominent object oriented languages including C++, Python, Java and C# in preparation for the applicable state and/or AP/IB exams. Current hardware, operating systems, applied electronics and up to date IDE's are all used in approaching highly technical and real world solutions resulting in skilled jobs and excellent education opportunities."

### **EXPLORING COMPUTER SCIENCE (Computer Technology) (642001)**

**Semester** 9, 10, 11, 12      **.50 credit**

*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. 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. This course fulfills the computer literacy graduation requirement.

## **EXPLORING COMPUTER SCIENCE II (Robotics for Competition) (642051)**

**Semester** 9, 10, 11, 12 .50 credit

**Prerequisite:** *Exploring Computer Science*

**If you have not met the prerequisite you may take it simultaneously with *Exploring Computer Science*.**

This course follows the standards and objectives for ECS II with a special focus on preparing robots for various competitions throughout Utah. Students will engage in problem solving, human computer interaction, data analysis, programming, and basic engineering concepts specific to modern robotics. Be a part of Skyline's various robotics teams and compete with your peers throughout the year. A web-based portfolio of your strategies and experiences will be prepared at the conclusion of the course. Optional TSA registration and membership fees of \$20 required for students participating in competitions. Course offered first semester only!

## **YEARBOOK (Desktop Publishing) (610421/610471)**

**Year** 9, 10, 11, 12 1 CTE or elective credit

**Applications available from Mr. Kapptie (Rm 303)**

The students in this course plan and produce the school yearbook, *The Aquilian*. Students receive training in layout, design, photography, cropping and editing photos, and writing stories and captions. This class does not count as an English credit.

## **GRAPHICS (626500) CE – SLCC Art 1240**

**Year** 10, 11, 12

**Concurrent Education Credit and 1 high school CTE or elective credit**

**Fee: Approx. \$40.00 per year**

**Concurrent Credit Available**

This course educates students using Mac computers to run Adobe Illustrator, Photoshop, InDesign, Photobooth, and other various applications. This software will be used to create cool designs for a variety of products like t-shirts, vinyl stickers, notepads, magnets, buttons and other products. Students get an exciting, hands-on, real world experience in digital media technology that gives them that competitive edge for post high school education and the future job market. Graphics is a fun and creative experience for everyone from beginner to expert.

## **ADVANCED GRAPHICS COMMUNICATIONS (626650)**

**Year (1 Period)** 11, 12 1 CTE or elective credit

**Prerequisite:** *Introduction to Graphics 1-2 or teacher recommendation*

**Fee: \$40.00 per year**

**Concurrent Credit Available**

This second year course takes students into the advanced levels of Adobe Illustrator, Photoshop, and InDesign used to produce exciting, professional quality designs, and products. T-shirt printing up to six colors, multi-colored vinyl banners and signs, offset printing products and visual, digital media and manipulation. Students work with school groups and other organizations to develop customer products and understand professional relationships, work flow, management and quality skills so they are prepared to meet the demands of college and careers. Students learn about business and money to help give students a competitive edge. This is wonderful, real-world, technological experience like none other.

## **LAW ENFORCEMENT (629001)**

**Semester** 12

**.50 CTE or elective credit**

**Fee: \$10.00**

This course is an introductory course for those who want to pursue a career in law enforcement. This course, taught by our school officer, includes court room and trial procedures, important court cases, rights of the accused, and problems relating to law enforcement. There will also be a field trip to the jail and the prison each semester. **This class is for Seniors only and is limited to 40 students.**

## **INTERNSHIP EXPERIENCE (650171)**

**Semester** 11, 12

This course is designed to give students valuable work-place experience in a career of his/her choice. Students will be placed in a business setting where they will receive on-the-job mentoring. Interns spend 60 hours at the work-site and 16 hours in the classroom. Students will receive classroom instruction on work-place expectations, resume writing, applications, interviewing, harassment, labor and safety laws, interpersonal communication, and creating a portfolio. Internship class takes place during the 4<sup>th</sup> Period block. Students must provide their own transportation to their work-site. **An application and screening process is required for this course.** Applications are available in Mrs. Manning's office in the Career Center.

## **INTRO/BEGINNING AUTO MECHANICS (627021)**

**Semester** 10, 11, 12 .50 CTE or elective credit

**Fee: \$25.00 per semester**

Introduction to automotive. Learn to use and operate the same tools and equipment that today's master automotive technicians use. Explore, diagnose and repair various computer controlled systems. Repair and maintain the modern vehicles of today. Prepare for advanced professional certification, professional employment and further skill development.

## **GENERAL SERVICE TECHNICIAN 1 (AUTO MECH 2) (627100)**

**Year** 11, 12 1 CTE or elective credit

**Prerequisite:** Intro-Auto or conference with Mr. Nielsen (Rm 307)



**Fee: \$40.00 per year**

If you have a good solid knowledge of cars, their systems (brakes, suspension, engines, etc.), and hand tools this class is for you. This course builds upon basic automotive knowledge students have about cars. Over 60% of the work is in the shop repairing live vehicles such as students' personal vehicles, building shop project cars and other fun-filled projects. If you like motorized vehicles (cars, trucks, bikes) and want to learn more, then you should come register for this class. You WON'T be disappointed.

**GENERAL SERVICE TECHNICIAN 2 (627140)**

**Year** 11, 12 **2 Period class** 2 CTE or elective credits

**Prerequisite: General Service Technician 1 (Auto Mech. 2) or conference with Mr. Nielsen (Rm 307)**

**Fee: \$45.00 per year**

This course is also offered as concurrent enrollment and allows students to continue their automotive experience or to build for the future in the automotive industry. This course also works well for those interested in technical/engineering programs for various colleges. Over 60% of class is in the shop repairing and maintaining motorized vehicles. The class will also dive into the racing/car show sides of the automotive field. If you like cars, trucks, and bikes, you need to enroll in Skyline's new and improved automotive program where "Attitude is Everything." See you there!!

**WOODWORKING 1/Chest (625001)**

**Semester** 9, 10, 11, 12 **.50 CTE or elective credit**

**Project Fee: \$55.00 + depending on the costs of required projects and safety glasses.**

**Partial CTE Tuition Fee: \$5.00 per credit**

Designing, cutting, fitting, assembling, and finishing: these are some of the many activities you will do and skills you will learn when you take this class. This beginning woodworking class is the first in a series of woodworking courses in the Cabinetmaking/Furniture making career pathway. In this introductory course you will have the opportunity to build a personal, heirloom quality project plus a group manufactured project. You will learn life skills and career-related skills. This will definitely be one of the best classes on your schedule.

**WOODWORKING 2 (Electric Guitar) (625011)**

**Semester** 9, 10, 11, 12 **.50 CTE or elective credit**

**Project Fee: \$160.00-Electric Guitar**

**Partial CTE Tuition Fee: \$5.00 per credit**

Designing, cutting, fitting, assembling, and finishing: these are some of the many activities you will do and skills you will learn when you take this class--with an emphasis on computer-controlled cutting. In this introductory course you will have the opportunity to build an electric guitar, plus a group manufactured project. You will learn life skills and career-related skills. This beginning woodworking class is the first in a series of woodworking courses in the Cabinetmaking/Furniture making career pathway. This will definitely be one of the best classes on your schedule.

**FURNITURE DESIGN (625050)**

**Year** 10, 11, 12 **1 CTE or elective credit**

**Project Fee: minimum of \$50.00 depending on the project.**

**Partial CTE Tuition Fee: \$5.00 per credit**

Design and build a personal heirloom-quality piece of furniture or select a project from a list of pre-planned projects: cedar chest, entertainment center, long board, bed frame, grandfather clock, dresser/chest of drawers, etc. Learn how to safely use a variety of tools and machinery with accuracy and efficiency. Learn how to operate Computer controlled machinery. If you loved the woodworking class you are going to love this class even more. This is the second class in the Cabinetmaking/Furniture making career pathway.

**WOODWORKING (Various project options) (625010)**

**Year** 9, 10, 11, 12 **1 CTE or elective credit**

**Project Fee: \$\$\$ Varies each semester depending on projects you select**

**Partial CTE Tuition Fee: \$5.00 per credit**

Designing, cutting, fitting, assembling, and finishing: these are some of the many activities you will do and skills you will learn when you take this class--with an emphasis on computer-controlled cutting. In this introductory course you will have the opportunity to build a number of select projects, plus a group manufactured project. You will learn life skills and career-related skills. This beginning woodworking class is the first in a series of woodworking courses in the Cabinetmaking/Furniture making career pathway. This will definitely be one of the best classes on your schedule.

## **DRIVER EDUCATION**

**DRIVER EDUCATION (608301 - 1st Semester) (608302 - 2nd Semester)**

**Semester** 10, 11, 12 **.50 credit**

**Pre-requisite: Learner=s Permit from DMV**

**Fee: \$140.00- non-refundable after class starts driving**

Before you can get your Utah Driver=s License, you must pass a state approved driver education course. Granite District offers a three phase program in driver education. The first phase consists of 40 hours of classroom instruction. Units dealing with the automobile, nature=s laws, man=s laws, physical, mental, and social responsibility, alcohol and drugs pertaining to driving, and

attitude development for a life-time of safe driving practices are presented. The second phase is the driving range where students spend six hours learning basic maneuverability of the car. (Standard transmission, Astick shift@, as well as automatic transmission cars are used.) The third phase is the on-road training where students spend three hours in the car with an instructor covering normal traffic conditions. Students in this phase spend six hours observing the driving of other students in the class. After completion of Driver Education requirement students are tested and upon passing, are given the necessary papers for licensing by the Utah State Driver Licensing Division with a minimum 2.0 CPA.

**Age requirement:**

First semester: Student must be 16 on or before Feb. 23<sup>rd</sup>

Second semester: Student must be 16 on or before July 18<sup>th</sup>

Summer session: Student must be 16 on or before Oct.30<sup>th</sup>

## ENGLISH

The Honors and AP programs are designed for advanced, intellectually mature, and motivated students who wish to study challenging literature and to write extensively.

### FRESHMAN ENGLISH COURSES

#### ENGLISH 9 CORE (567000)

Year 9 1 credit

Student will focus on developing and strengthening skills and strategies necessary for effective communication at a grade appropriate level of expectation. Students will develop a deeper understanding of 21<sup>st</sup> century communication skills through reading, writing, speaking, listening, and language usage as described by the Utah State Core.

#### ENGLISH 9 HONORS (568100)

Year 9 1 credit

**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, they will pursue individual literacy interest 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 future honors and AP classes.**

### SOPHOMORE ENGLISH COURSES

#### ENGLISH 10 CORE (568500)

Year 10 1 credit

In this course, basic skills are emphasized to prepare students to learn to communicate effectively. This course includes the study of grammar, usage, punctuation, sentence structure, spelling, and vocabulary - all with the intent of improving writing style. Students will develop and explore strategies for understanding informational, literary, persuasive, and functional texts. The study of selected pieces of literature from various genres also forms a major part of this course as students learn to develop their critical reading and thinking skills.

#### ENGLISH 10 HONORS (568600)

Year 10 1 credit

***Students are encouraged but not required to buy the novels and plays we study in this course.***

This course is designed to provide a challenge to the **highly motivated student**. Emphasizing critical, creative, and analytical thinking through the study of traditional and contemporary literature, this class offers intensive study and practice in various modes of writing. Students will become proficient in exploring and explicating various literary genres such as novels, short stories, drama, and poetry. Skills in grammar, usage, punctuation, and vocabulary will be covered more rapidly than in regular Sophomore English.

**SUMMER READING WILL BE REQUIRED.**

### JUNIOR ENGLISH COURSES

#### ENGLISH 11 CORE (568900)

Year 11 1 credit

This course introduces students to a variety of literary genres, including plays, short stories, novels, non-fiction essays, and poetry from America=s most notable writers. The class will also incorporate college preparation strategies as well as focus on strengthening skills and strategies necessary for effective communication in literary, functional, and informational contexts. As students incorporate required writing into their study of American writers, they will improve their expertise in reading, writing, listening, viewing, and critical thinking.

#### ENGLISH 11 HONORS (568950)

Year 11 1 credit

***Students are encouraged but not required to buy the novels and plays we study in this course.***

This accelerated class will enhance skills and strategies necessary for proficient communication in literary, functional, and informational contexts. Magnifying the skills described in the state core, students will study in depth a variety of literary genres, including novels, plays, short stories, essays, and poetry using creative and critical thinking. The curriculum for this course, designed to be a preparatory class for AP Literature and Composition, will have an emphasis on American writers. **SUMMER READING WILL BE REQUIRED.**

## SENIOR ENGLISH COURSES

All seniors must register for a writing course and a literature course unless enrolled in AP Literature and Composition or IB English A1 HL2.

### WRITING / LITERATURE COURSES

#### **ENGLISH 12 CORE (Effective Writing) (569011)**

Semester 12 .50 credit

**Must be taken with ENGLISH 12 CORE (World Literature 569012)**

Effective citizens in a democracy must have a command over the written language if they are to actively participate in their culture and gain access to society's power structures. The overall objective of this course is to improve the student's ability to communicate clearly and effectively. This course offers opportunities for students to practice and improve various composition skills to prepare for college and/or the workplace. Students will be working through all the stages of the writing process and will be involved in producing various modes of discourse such as informational text, persuasive pieces, reviews, business letters, compare and contrast and research papers. Students will also be expected to compile a portfolio of their work.

#### **ENGLISH 12 CORE (World Literature) (569012)**

Semester 12 .50 credit

**Must be taken with ENGLISH 12 CORE (Effective Writing 569011)**

Students will explore strategies and skills for effective reading, writing, speaking, listening, viewing, and presenting. They will respond to a variety of British, multi-ethnic, and world literature selections, write in a number of genres, and develop critical thinking skills. Typically students will study writers as varied as Sophocles, Shakespeare, Conrad and Achebe.

#### **AP LITERATURE and COMPOSITION (569100)**

Year 12 1 credit

**Required Text Fee: Approx. \$85.00 for poetry text**

**Students are encouraged but not required to buy the novels and plays we study in the course.**

**Optional AP test-- cost: Approx. \$93.00**

This course is a college level class in literature and composition. The principal purpose of this course is to give interested and accelerated students an opportunity to do college level work while in high school and in many cases earn college credit. An AP course engages students in the careful reading and critical analysis of imaginative literature. Through close reading, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Emphasis is on appreciation of the writer's craft. At the same time, students will work on improving composition skills. Emphasis is placed on helping students develop stylistic maturity which is characterized by a wide-ranging vocabulary, a variety of sentence constructions, logical organization, and effective use of rhetoric. **SUMMER READING IS REQUIRED.**

#### **DEBATE 1-2 (570700)**

Year 9, 10, 11, 12 1 elective credit

**Fees: Participation: \$90.00, Transportation: \$10.00**

In this course the student will learn the fundamentals of formal and informal argumentation, public speaking and competitive interpretation. Students will have the opportunity to compete at interscholastic debate events and travel with the team.

#### **DEBATE 3-4 (570730)**

Year 10, 11, 12 1 elective credit

**Fees: Participation: \$90.00, Transportation: \$10.00**

In this course students will practice advanced techniques in competitive speaking and mock trials. The school debate squad is developed from these classes and students must have participated in Debate 1-2.

#### **DEBATE 5-6 (570760)**

Year 11, 12 1 elective credit

**Fees: Participation: \$90.00, Transportation: \$10.00**

This course is designed for students who have participated in Debate 1-2 and Debate 3-4.

## FAMILY and CONSUMER SCIENCE

**All FACS (Family and Consumer Science) courses give students CTE credit**

### **INTERIOR DESIGN (618601)**

**Semester** 9, 10, 11, 12 .50 CTE or elective credit

**Lab Fee: \$15.00 per semester**

This course enables male and female students to explore their creativity in the field of interior design. Identification of the elements and principles of design are emphasized. Other topics included are furniture arrangement basics, floor plan evaluation, area planning and careers. This is a very visual and hands-on class. Competency certificate available.

### **CHILD DEVELOPMENT (617501)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$10.00**

***Strongly recommended prerequisite for Early Childhood Education/Preschool***

This course provides male and female students with an understanding of the aspects of human growth and development. Parenting skills are developed as positive guidance techniques and child-related issues are studied. Learning activities, discussions, and hands-on lab experiences in working with young children are included. Competency certificate available.

### **EARLY CHILDHOOD EDUCATION/PRESCHOOL (617600)**

**Year** 11, 12 1 credit

**Fee: \$20.00 (includes \$15.00 required fingerprinting fee)**

***If you turn 18 before Oct. 1, you will have to have a background check completed by the district. This will cost \$53.00 and class fee of \$5.00***

***Strongly Recommended Prerequisite: Child Development***

This year-long course prepares male and female students for child related careers through personal interaction with children. Teaching in Skyline's preschool is a major component of the course. Instruction is given in developing positive relationships with children, creating lesson plans for learning activities for children, childcare policies and management, guidance techniques, and health and safety concerns. Competency certificate available

### **Apparel Design & Production 1 (Level 1) (618401) (formally – Sports Sewing/Clothing I)**

**Semester** 9, 10, 11, 12 .50 credit

**Lab Fee: \$5.00 (additional \$50 kit purchase required\*)**

This course introduces students to basic apparel design and construction skills. You will learn basic sewing skills while completing a variety of projects. Bags, elastic PJ pants/shorts/skirt, hooded sweatshirts & project of choice. Have fun while you learn a life skill & hobby. \*Students must purchase required kits. (approx. \$50)

### **Apparel/ Design & Production II (Level 2) (618421) (formally – Sports Sewing/Clothing II)**

**Semester** 10, 11, 12 .50 credit

**Lab Fee: \$10.00 (additional purchase required\*)**

***Prerequisite: Apparel Design and Production 1***

Students will further strengthen and broaden apparel construction techniques. In this course they construct individual intermediate level projects using correct construction techniques. Have fun while you learn a life skill or hobby. Students must purchase individual project items.

### **FOOD and NUTRITION I (618001)**

**Semester** 9, 10, 11, 12 .50 credit

**Lab Fee: \$40.00 each semester**

This course is designed to focus on the science of food and nutrition. Experiences will include food safety & sanitation, culinary technology, food preparation and dietary analysis to develop a healthy lifestyle with pathways to career readiness. Lab based class.

### **FOOD and NUTRITION II (618051)**

**Semester** 10, 11, 12 .50 credit

***Prerequisite: Food and Nutrition I***

**Lab Fee: \$40.00 each semester**

This class is designed to focus on principles of food preparation, sports nutrition, consumerism, and career options in the food industry. This is a lab based class with focus on nutrition, sanitation, and food science technology.

## **MATHEMATICS**

All mathematics classes require the knowledge learned in the prerequisite math class. See current math teacher for advice.

### **General Math Track**

Secondary Math 1

Secondary Math II (optional Secondary Math II Lab)

Secondary Math III

College Prep Mathematics/Introductory Calculus or AP Statistics

### **Math Honors Track**

Junior High Honors (B or higher)

Secondary Math 1 Honors

Secondary Math II Honors (optional Math Lab)

Secondary Math III Honors (optional Math Lab)  
AP Calculus BC/IB Math HL (Calculus)  
AP Statistics/IB Math HL (Statistics)

**SECONDARY MATH 1 (577000)**

**Year 9 1 credit**

The fundamental purpose of Secondary Mathematics I is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Secondary Mathematics 1 uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. *A graphing calculator is recommended.*

**SECONDARY MATH I ESSENTIALS () (2 PERIODS)**

**Must be taken with Secondary Math I Essentials Lab**

**Year 9 2 credit**

***Teacher or counselor permission required***

***Class Fee: \$20.00***

***Materials Required:***

This class is designed for students who struggled in Secondary Math I. Students taking Secondary Math I Essentials must also register for Secondary Math I Lab. The fundamental purpose of Secondary Mathematics I is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Secondary Mathematics 1 uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. *A graphing calculator is recommended*

**SECONDARY MATH I ESSENTIALS LAB ( ) (2 PERIODS)**

**Must be taken with Secondary Math II Essentials**

**Year 9 2 credit**

***Teacher or counselor permission required***

***Class Fee: \$20.00***

***Materials Required: ????***

This class is designed for students who struggled in 8<sup>th</sup> grade math. Students taking Secondary Math I Lab must also be enrolled in Secondary Math I Essentials. These classes are taught every day instead of every other day. See description of secondary Math II Essentials.

**SECONDARY MATH 1 HONORS (577100)**

**Year 9 1 credit**

The fundamental purpose of Mathematics I Honors is to formalize and extend the mathematics that students learned in the middle grades. This course will compact Secondary I topics to allow time to cover Pre-Calculus topics including vectors and matrices. The critical areas of Secondary I, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Secondary Mathematics I uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. Another unit in the course ties together the algebraic and geometric ideas studied.

Students who continue in the Honors track will be prepared for Advanced Placement Calculus their senior year of high school. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. *A graphing calculator is recommended.*

**SECONDARY MATH II (577200)**

**Year 10 1 credit**

***Prerequisite: Secondary Math I***

***Class Fee: \$20.00***

***Materials Required: Graphing calculator***

The topics covered in Secondary Math I are reviewed and expanded. Areas covered include polynomials, functions and relations, systems of equations in two and more unknowns, and second degree equations. Composition of functions, complex numbers, and systems of quadratic equations are among new topics introduced. Probability, geometry, and trigonometry will also be studied. This course is strongly recommended for students who plan to take the ACT exam.

**SECONDARY MATH II ESSENTIALS (577220) (2 PERIODS)**

**Must be taken with Secondary Math II Essentials Lab**

Year 10 2 credit

**Prerequisite: Secondary Math I****Teacher or counselor permission required****Class Fee: \$20.00****Materials Required: Graphing calculator**

This class is designed for students who struggled in Secondary Math I. Students taking Secondary Math II Essentials must also register for Secondary Math II Lab. These classes are taught every day instead of every other day. The first quarter is spent reviewing the main ideas from Secondary Math I. The rest of the year focuses on new Secondary Math II topics. Topics covered include polynomials, functions, systems of equations, and second degree equations. Geometry, trigonometry, and probability will also be studied.

**SECONDARY MATH II ESSENTIALS LAB (577480) (2 PERIODS)****Must be taken with Secondary Math II Essentials**

Year 10 2 credit

**Prerequisite: Secondary Math I****Teacher or counselor permission required****Class Fee: \$20.00****Materials Required: Graphing calculator**

This class is designed for students who struggled in Secondary Math I. Students taking Secondary Math II Lab must also be enrolled in Secondary Math II Essentials. These classes are taught every day instead of every other day. See description of secondary Math II Essentials.

**SECONDARY MATH II HONORS (577400)**

Year 9, 10 1 credit

**Prerequisite: Secondary Math I Honors with a B or better each term****Class Fee: \$20.00****Materials Required: Graphing calculator**

This is an intense, fast-paced course that extends but **does not** review Secondary Math I concepts and prepares the student for Secondary Math III Honors. Prerequisite to Secondary Math III Honors.

**SECONDARY MATH II/III HONORS (577401, 577402, 577601, 577602) (2 PERIODS)**

Year 10 2 credit

**Prerequisite: Secondary Math I Honors with a B or better each term****Class Fee: \$20.00****Materials Required: Graphing calculator**

This is a fast-paced course; about two hours of homework are required every day. This course is designed for students who are strong as well as motivated in math, but not necessarily geniuses; who would like to get ahead in math so as to take AP Calculus BC as a junior. The class will be double-blocked which means it will take two periods of a student's 8-period schedule. The first semester will cover the Secondary Math II Honors curriculum while the second semester will cover the Secondary Math III Honors curriculum. Students successfully completing the course will earn both the required SM2H and SM3H graduation credits and will be well prepared for calculus the following year. (Students who have previously taken SM2H and want a review before moving on the SM3H are welcome in the class, but should know that they would only receive 1 additional math credit towards high school graduation in this case.)

**SECONDARY MATH III (577500)**

Year 11 1 credit

**Prerequisite: Secondary Math II****Class Fee: \$20.00****Materials Required: Graphing calculator**

This course continues to develop the concepts in Secondary Math II and prepares students to succeed in college-level math. Successful completion of this course is essential for students who wish to do well on college entrance examinations.

**SECONDARY MATH III HONORS (577600)**

Year 10, 11 1 credit

**Prerequisite: Secondary Math II Honors with a B or better each term****Class Fee: \$20.00****Materials Required: Graphing calculator**

An algebraic study of geometric concepts and analysis of functions. Students learn to analyze points, lines, vectors, circles, transformation, polar coordinates, and spatial geometry using algebraic and trigonometric principles. Prerequisite to AP Calculus.

**SECONDARY MATH III ESSENTIALS (577520) (2 PERIODS)****Must be taken concurrently with Secondary Math III Essentials Lab**

Year 11 2 credit

**Prerequisite: Secondary Math II****Teacher or counselor permission required****Class Fee: \$20.00**

**Materials Required: Graphing calculator**

This class is designed for students who struggled in Secondary Math II. Students taking Secondary Math III Essentials must also register for Secondary Math III Lab. These classes are taught every day instead of every other day. The first quarter is spent reviewing the main ideas from Secondary Math II. The rest of the year focuses on new Secondary Math III topics.

**SECONDARY MATH III ESSENTIALS LAB (577680) (2 PERIODS)**

**Must be taken concurrently with Secondary Math III Essentials**

Year 11 2 credit

**Prerequisite: Secondary Math II**

**Teacher or counselor permission required**

**Class Fee: \$20.00**

**Materials Required: Graphing calculator**

This class is designed for students who struggled in Secondary Math II. Students taking Secondary Math III Lab must also be enrolled in Secondary Math III Essentials. These classes are taught every day instead of every other day. See description of secondary Math III Essentials.

**COLLEGE PREP MATHEMATICS (579750)**

Year 12 1 credit

**Prerequisite: Secondary Math III**

This course formalizes and extends concepts from Secondary Math I and Secondary Math II to provide students with algebra skills and understanding which are prerequisite to college courses. Topics covered on the ACT test will be reviewed including how to apply geometric concepts. Students will apply statistical methods to make informed decisions and use rules of probability to interpret data.

**MATH DECISION MAKING FOR LIFE (579660)**

Year 11, 12 1 credit

**A graphing calculator is recommended.**

**Prerequisite: Secondary Mathematics II**

Mathematical Decision Making is a four-quarter course for juniors or seniors. The course includes mathematical decision making in finance, modeling, probability and statistics, and making choices. The four quarters of instruction are independent of each other, allowing students to enter and exit the course quarterly. Students will make sense of authentic problems and persevere in solving them. They will reason abstractly and quantitatively while communicating mathematics to others. Students will use appropriate tools, including technology, to model mathematics. Students will use structure and regularity of reasoning to describe mathematical situations and solve problems.

**MATH LAB (579850)**

Year 9, 10, 11, 12 1 elective credit

**Requirement: Time in class must be utilized effectively and on-task at all times**

Optional math studies course structured around the emphasis of collaboration between students and an instructor of mathematics to increase overall comprehension of individual students' course of study.

**INTRODUCTORY CALCULUS (579200)**

Year 11, 12 1 credit

**Prerequisite: Secondary Math III or higher**

**Materials Required: Graphing calculator**

A year-long course where students will develop a conceptual understanding of limits, derivatives, and integrals through discovery and applications. Students will study polynomial, radical, exponential, logarithmic, and rational functions with an emphasis on graphical analysis preparatory to the study of limits.

**AP STATISTICS (579520)**

Year 11, 12 1 credit

**Fee: \$10.00 Optional AP test-- cost: Approx. \$91.00**

**Materials Required: A graphing calculator is required for the AP exam**

**Prerequisite: Passing grade in Secondary Math III**

This is a non-calculus based statistics course. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: (1) Exploring Data, (2) Planning Study, (3) Probability, and (4) Statistical Inference. **Prepares students for AP Statistics Exam.**

**AP CALCULUS BC (579360/579370) (2 periods)**

Year 11, 12 2 credits

**Fee: \$10.00**

**Optional AP test-- cost: Approx. \$91.00**

**Prerequisite: Secondary Math III Honors with a B or better each term**

**A graphing calculator is required for the AP exam**

AP Calculus BC is directed at students who desire a rigorous course of study of mathematics. This course will prepare students for university programs in engineering and the sciences where mastery of mathematics is required. Students will be given the

opportunity to apply their mathematical knowledge to a variety of meaningful problems. Students are required to register for both course numbers for Calculus BC and a calculus lab. Topics include: limits, derivatives, application of derivatives, integrals, application of integrals, infinite series, parametric, polar and vector systems.

### **IB MATHEMATICS HIGHER LEVEL 1 (Calculus BC) (580300/580310)**

Year 10, 11, 12 2 periods, 2 credits

*Equivalent to AP Calculus BC (2 periods, meets every day)*

*Fee: \$10.00*

*Prerequisite: Secondary Math III Honors with a B or better each term*

*Prepares students for the AP Calculus BC exam*

Mathematics Higher Level with the Differential Calculus Option is directed at students who desire a rigorous course of study of mathematics. This course will prepare students for university programs in engineering and the sciences where mastery of mathematics is required. Students will be given the opportunity to apply their mathematical knowledge to a variety of meaningful problems. Topics include: limits, derivatives, application of derivatives, integrals, application of integrals, infinite series, parametric, polar and vector systems.

### **IB MATHEMATICS HIGHER LEVEL 2/Statistics (580350) For students who have already taken AP Calculus**

Year 11,12 1 credit

*Fee: \$10.00 and an additional \$25.00 IB fee will be charged for non-IB students*

*Optional AP test-- cost: Approx. \$91.00*

*Prerequisite: AP Calculus BC*

**Mathematics Higher Level** is directed at students who desire a rigorous course of study of mathematics. This course will prepare students for university programs in engineering and the sciences where mastery of mathematics is required. Students will be given the opportunity to apply their mathematical knowledge to a variety of meaningful problems. Non-IB students who have passed the AP Calculus BC exam are strongly encouraged to take this course. *Prepares students for AP Statistics exam.*

## **PERFORMING ARTS**

### **VOCAL MUSIC**

**\*\*Vocal Music classes do not have a class fee. However, students are required to attend Skyline's musical.**

#### **WOMENS CHORUS (510800)**

Year 9, 10, 11, 12 1 credit

*No audition or prerequisite required for this class*

Designed for the female singer, this class will focus on the development of vocal skills including sight reading and ear training. The class sings a wide variety of quality musical literature for the female chorus.

#### **MIXED CHORUS (510400)**

Year 9, 10, 11, 12 1 credit

*No audition or prerequisite required for this class*

Students develop singing skills through the study and performance of music written for mixed voices. Emphasis is placed on attaining greater vocal maturity through the application of correct principles of voice production, breath control, and proper diction. This class is available to all grades but recommended more for sophomores.

#### **CONCERT CHOIR (510900)**

Year 11, 12 1 credit

*Uniform fee: Men \$150.00, Women \$100.00*

*Prerequisite: Audition with Mr. Gundersen*

This is the largest advanced choir at the high school level. Members are expected to meet high vocal and musical standards, and must be aware of the commitment to attend all scheduled rehearsals and programs. Class work and content are increased, and the music demands more maturity of voice quality and more refined musicianship. Attention is given to the improvement of music reading ability and the understanding of mood, form and style in choral music

#### **HIGHLITES-WOMEN'S BARBERSHOP (510100)**

Year 9, 10, 11, 12 1 credit

*Uniform fee: not to exceed \$100.00*

*Prerequisite: Audition with Mr. Gundersen*

This exclusive female group is available to all grades. It emphasizes barbershop harmony. Members must be able to demonstrate exceptional vocal and musical skills. Opportunities for performances are many. Students **MUST** be committed to be present for all rehearsals and scheduled performances.

#### **TROUBADOURS-MEN'S BARBERSHOP (510500)**

Year 9, 10, 11, 12 1 credit

*Uniform fee: not to exceed \$150.00*

*Prerequisite: Audition with Mr. Gundersen*

This class is for the male singer and emphasizes barbershop harmony. Attention is given to the development of vocal skills, music



fundamentals, sight singing and ear training. Opportunities for performance are many. Students MUST be committed to be present for all rehearsals and performances.

### **MADRIGALS (510530)**

Year 11, 12 1 credit

**Uniform fee: Men \$150.00, Women \$100.00**

**Prerequisite: Audition with Mr. Gundersen**

This is a small group (generally not more than twenty-four) of selected juniors and seniors who sing a wide variety of music. Madrigals involves greater precision and alertness in every musical style. Opportunities for performances are many. Students MUST be committed to be present for all rehearsals and performances. Members of madrigals must also register for Concert Choir.

### **INSTRUMENTAL MUSIC**

These are performing classes. Students will be required to perform at school functions outside class time; i.e.: pep band, school plays and musicals, holiday performances and other school functions.

### **CONCERT BAND (509400)**

Year 9, 10, 11, 12 1 credit

**Music fee: \$30.00**

**Prerequisite: One year minimum experience on your instrument**

Concert Band is a fundamentals-based course. All students who play a brass or woodwind instrument are welcome to enroll. This course will focus on the basics of musicianship in a band setting. This is a training band class for those students wishing to improve on their musical and technical abilities. Students will also be required to participate in the various Pep Band and other extra-curricular activities during the year.

### **CONCERT ORCHESTRA (509800)**

Year 9, 10, 11, 12 1 credit

**Fee: \$30.00 plus Uniform cost**

**Prerequisite: One year minimum experience on your instrument**

The Concert Orchestra gives the opportunity to violin, viola, cello, and bass players to experience many different varieties of the orchestral music repertoire. This is a performing ensemble and all students will be expected to participate in all concerts and performances. We will focus on the development of technical and performance skills.

### **JAZZ ENSEMBLE I (509550)**

Year 10, 11, 12 1 credit

**Audition with Mr. Larson**

**Fee: \$30.00 plus Uniform cost**

The Jazz Ensemble is an elite group for the school=s advanced jazz musicians. The course will focus on advanced instrumental technique, improvisation skills and practical playing skills. Members are required to register for another large performance ensemble (Wind Ensemble, Percussion Ensemble, Orchestra). Members of the Jazz Ensemble will be required to participate in many concerts and performances throughout the year. All members of the Jazz Ensemble should be studying privately. **The Jazz Ensemble rehearses every day at 6:30 AM.**

### **PERCUSSION ENSEMBLE (508250)**

Year 10, 11, 12 1 credit

**Audition with Mr. Larson**

**Fee: \$30.00**

The Percussion Ensemble is an auditioned group for the advanced drummer/percussionist. Students will explore the various styles of percussion literature as well as develop skills with all percussion instruments and settings. This class will focus on the Drumline, but also teach technical abilities in all areas of percussion music. Some keyboard skills will be necessary. As a performing ensemble, all students will be expected to attend all required concerts and performances. Students must provide their own sticks and mallets. All additional equipment will be provided.

### **WIND ENSEMBLE (508100)**

Year 10, 11, 12 1 credit

**Audition with Mr. Larson**

**Fee: \$30.00**

The Wind Ensemble is an advanced band group that requires an audition to be a member. This course will focus on musical performance skills, technique, and literature. We will study various styles of music found in the concert band repertoire. Members are expected to be committed to the group and attend all performances. Students will also be required to participate in the various Pep Band and other extracurricular activities during the year.

### **SYMPHONY STRINGS (509610)**

Year 10, 11, 12 1 credit

**Audition with Mr. Larson**

**Fee: \$30.00**

The Philharmonic Orchestra is an elite string ensemble. This class will give advanced string players the opportunity to work on challenging literature and focus on small ensemble as well as full symphonic orchestra styles. We will be involved with various

concerts throughout the year. Participation is mandatory.

### **AP THEORY and HARMONY (507180)**

**Year** 11, 12 **1 credit**

**Optional AP test-- cost: Approx. \$91.00**

This class is an advanced in-depth exploration of musical form and structure. Studies will include music history, aural skills, composition, rhythm study, and world music. Students are expected to have a basic understanding of music notation. This class is designed to prepare students for the AP Theory test or the IB Music exam. Students should be currently enrolled in an instrumental/choral ensemble.

### **THEATRE (FINE ARTS CREDIT, except where noted)**

#### **FILM MAKING (504001)**

**Semester** 9, 10, 11, 12 **.50 credit**

**Fee: \$10.00**

This is an introductory course in the fundamentals of the film making process, and appreciation of film as an important and culturally significant art form. Students will script, storyboard, film, and edit several short film projects. This class will also include some film viewing in class, as well as outside film viewing, including films that require parental approval.

#### **HIGH SCHOOL THEATRE (THEATRE 2) (520200)**

**Year** 9, 10, 11, 12 **1.00 credit**

**Fee: \$20.00**

A theatre class for incoming 9<sup>th</sup> graders and upper classmen that have not previously taken a theatre class *in high school*. Emphasis is placed on creating performances through acting, improvisation, and play writing. Play attendance, and/or community participation is required.

#### **HIGH SCHOOL THEATRE 1<sup>st</sup> SEMESTER ONLY (THEATRE 1A) (520101)**

**Semester** 9, 10, 11, 12 **.50 credit**

**Fee: \$10.00**

A theatre class for incoming 9<sup>th</sup> graders and upper classmen that have not previously taken a theatre class *in high school*. Emphasis is placed on creating performances through acting, improvisation, and play writing. Play attendance, and/or community participation is required.

#### **HIGH SCHOOL THEATRE 2<sup>nd</sup> SEMESTER ONLY (THEATRE 2A) (520201)**

**Semester** 9, 10, 11, 12 **.50 credit**

**Fee: \$10.00**

**Prerequisite: High School Theatre 1<sup>st</sup> Semester**

A continuing theatre class for incoming 9<sup>th</sup> graders and upper classmen that have not previously taken a full year of theatre classes *in high school*. Emphasis is placed on creating performances through acting, improvisation, and play writing. Play attendance, and/or community participation is required.

#### **ADVANCED HIGH SCHOOL THEATRE (THEATRE 4) (520350)**

**Year** 10, 11, 12 **1.00 credit**

**Fee: \$20.00**

**Prerequisite: 1 Full Year of High School Theatre**

This is an advanced theatre class for students who have previously taken a full year of High School Theatre. In addition to advanced acting/performance projects, topics such as theatre history, theatrical genres, design, direction, dramaturgy, stage combat, movement, performance art, and theatre advocacy will be explored. Play attendance, and/or community participation is required.

#### **ADVANCED HIGH SCHOOL THEATRE 1<sup>st</sup> SEMESTER ONLY (THEATRE 3A) (520311)**

**Semester** 10, 11, 12 **.50 credit**

**Fee: \$10.00**

**Prerequisite: 1 Full Year of High School Theatre**

This is an advanced theatre class for students who have previously taken a full year of High School Theatre. In addition to advanced acting/performance projects, topics such as theatre history, theatrical genres, design, direction, dramaturgy, stage combat, movement, performance art, and theatre advocacy will be explored. Play attendance, and/or community participation is required.

#### **ADVANCED HIGH SCHOOL THEATRE 2<sup>nd</sup> SEMESTER ONLY (THEATRE 4A) (520312)**

**Semester** 10, 11, 12 **.50 credit**

**Fee: \$10.00**

**Prerequisite: Advanced High School Theatre 1<sup>st</sup> Semester**

This is a continuing advanced theatre class for students who have previously taken a full year of High School Theatre. In addition to advanced acting/performance projects, topics such as theatre history, theatrical genres, design, direction, dramaturgy, stage combat, movement, performance art, and theatre advocacy will be explored. Play attendance, and/or community participation is required.

### **PLAY PRODUCTION (Semester 520601 Year 520600) ELECTIVE CREDIT ONLY**

**Semester or Year** 9, 10, 11, 12 .50 credit per semester, *Elective credit only*

**Fee: \$10.00 per semester**

**By audition only**

A performance based theatre elective. Students will be allowed in this class by audition only, and will produce shows performed outside of class time, including an evening on one act plays, a student directed musical, the UHSAA one act play, and the Shakespeare showcase. Outside rehearsals and performances will be required.

**STAGE PRODUCTION (Semester: 520501, Year: 520500) ELECTIVE CREDIT ONLY**

**Semester or Year** 9, 10, 11, 12 .50 credit per semester, *Elective credit only*

**Fee: \$40.00 per semester**

Students in this hands-on, backstage course will not only learn about all the technical aspects of theatrical productions (including light, sound, set, costume, prop, and digital media design and construction). They will also be responsible for running school assemblies, productions, and performing arts events throughout the school year. This course may be taken multiple times, in year or semester length increments. Play attendance, and/or community participation is required.

**TV PRODUCTION (691000) ELECTIVE CREDIT ONLY**

**Year** 10, 11, 12 1 credit per year, *Elective credit only*

**Fee: \$20.00**

**Prerequisite: Film Making or CTE Graphics, and Audition/Interview**

This is an intermediate class in film making and television production. The class will be responsible for producing a weekly 15 minute news broadcast for the school, as well as an annual video yearbook. Admission to this class is by audition/interview only. Students must have previously completed a film making or CTE Multimedia course.

**IB THEATRE (520900 .or 520920 depending on level)**

**2 Year** 11, 12 1 credit per year

**Fee: \$10**

**Prerequisite: none**

This is a 2 year, advanced theatre class for students who are pursuing an IB diploma, and wish to take the IB Theatre assessments at either the standard level (SL) or higher level (HL). Play attendance, and/or community participation is required. For more detail description, please go to the IB section of this book.

**DANCE (FINE ART CREDIT & PE CREDIT)**

**\*\* There is a \$10.00 fee for all Dance courses (excluding Dance Company.)**

**Semi-annual outside performances required.**

**DANCE 1 (500000)**

**Year** 9, 10,11,12 1 credit

Students are provided experience in dance technique and the development of physical strength, flexibility, endurance, coordination, and total fitness. Students will expand their dance vocabulary and skills, and develop their creative abilities through improvisation, choreography, and performance. Students will also be exposed to the history of dance and its cultural origins.

**DANCE 1A (500001)**

**1st Semester** 9, 10,11,12 .5 credit

The same dance curriculum described above is also offered in a semester format.

**DANCE 2 (500100)**

**Year** 10, 11, 12 1 credit

**Prerequisite: Dance 1**

This course is designed to give students continued experience in dance. Skills from Dance 1 will be refined and expanded. Intermediate technique, performance ability, and dance production skills will be stressed. The class will participate in a dance concert in Winter and Spring.

**DANCE 3 (500200)**

**Year** 11, 12 1 credit

**Prerequisite: Dance 1 and 2**

This class is the continuation of Dance 2. Students will continue to develop strong technical skills as well as refine improvisational skills. Performances and dance production will also be stressed within the structure of this class. The class will participate in a dance concert in Winter and Spring. Dancers will also have the opportunity to work with guest choreographers..

**BEGINNING BALLROOM DANCE (500300)**

**Year** 10, 11, 12 1 elective credit

This course is for men and women and will include basic steps for popular social ballroom dances, Swing, Cha-Cha, Waltz, Fox-trot, Tango, etc. It will also include additional, lively folk dances.

**PERFORMING GROUPS**

The courses listed below have elections, auditions, or other tryout requirements.

### **BALLROOM TEAM (500400)**

**Year** 10, 11, 12 1 credit

**Fee: Participation: approx. \$310.00**

**Prerequisite: Successful audition, eligibility including a 2.5 GPA, and the instructor's permission**

This class is the continuation of beginning Ballroom Dance. This course builds upon the foundations of the basic ballroom styles. This course has an emphasis on student choreography, performance and technical ability.

### **DANCE COMPANY (500450)**

**Year** 9, 10, 11, 12 1 credit

**Fee: Participation: approx. \$310.00**

**Prerequisite: Successful audition, eligibility including a 2.5 GPA, and the instructor's permission**

This class explores dance as an art form for those students identified as being gifted in dance. Membership in Company includes experience in using the creative process, choreography, philosophy, improvisation, production and history. Students will develop advanced techniques to increase physical strength, flexibility, coordination, endurance and general fitness. Membership in the Dance Company includes opportunities for public performance and professional development through guest artists. Please investigate the responsibilities of membership if you are interested in auditioning.

### **CHEERLEADING (607570)**

**Year** 9, 10, 11, 12 1 elective credit (may receive 0.5 PE credit for second year on Varsity)

**Fees:** Uniform: \$350.00 (approx.), Summer Camp: \$300.00, Participation: \$35.00, Transportation: \$10.00, County Camps: \$125.00+, Optional Items: Up to \$300.00

**Prerequisites:** Attend a mandatory parent/student meeting. Complete eligibility requirements including: 2.7 GPA with no more than one F the previous term and 2.0 CPA with no more than two zeros the previous term. Complete a successful tryout.

## **PHYSICAL EDUCATION/HEALTH**

### **HEALTH II (607801)**

**Semester** 9, 10, 11, 12 .50 credit

The goal of Health Education at the high school level is to establish patterns of behavior that will assist a person in achieving complete health. Complete health is accomplished by having a balance of physical, mental, social, emotional and spiritual well-being. This course is designed to offer students the opportunity to acquire knowledge, incorporate process and life skills, and develop positive attitudes about life. Development of a healthy body and healthy mind will assist young people in living active, productive and successful lives.

### **FITNESS FOR LIFE for 9<sup>th</sup> GRADERS ONLY (606303)**

**Semester** 9 .50 credit

**Fee: \$10.00**

Students learn that cardiovascular fitness, strength, flexibility, endurance, weight control, nutrition and stress management are necessary for a healthy lifestyle. Students participate in a variety of fitness activities, develop their own personal fitness plan, complete a fitness journal and improve their fitness levels.

### **FITNESS FOR LIFE (606301) for 10<sup>th</sup>-12<sup>th</sup> GRADE**

**Semester** 10,11, 12 .50 credit

**Fee: \$10.00**

Students learn that cardiovascular fitness, strength, flexibility, endurance, weight control, nutrition and stress management are necessary for a healthy lifestyle. Students participate in a variety of fitness activities, develop their own personal fitness plan, complete a fitness journal and improve their fitness levels.

### **LIFETIME SPORTS (606401)**

**Semester** 10, 11, 12 .50 credit

**Prerequisite: Fitness for Life**

**Fee: \$10.00**

This coed class is designed for Skyline students to experience a variety of sports and activities that they can enjoy throughout their lives. Emphasis is placed on participation and enjoyment, not skill or fitness training. Students will receive group lessons and participate in the following: ultimate frisbee, bowling, golf, tennis, indoor and/or outdoor softball, badminton, floor hockey, volleyball, basketball, and other recreational games.

### **COMPETITIVE ATHLETICS/CROSS COUNTRY (606695)**

**1st Semester** 9, 10, 11, 12 .50 credit

**Fee: \$10.00**

This class is aimed at those students who participate on Skyline's Cross Country and Track and Field teams. This class also allows other students an opportunity for conditioning.

### **COMPETITIVE ATHLETICS/TRACK (606691)**

**2nd Semester**                      **9, 10, 11, 12**                      **.50 credit**

**Fee: \$10.00**

This class is aimed at those students who participate on Skyline=s Track and Field and Cross Country teams. This class also allows other students an opportunity for conditioning.

### **COMPETITIVE ATHLETES/ FOOTBALL**

**(606631) - 1st Semester (606807) - 2nd Semester**

**Semester**                      **9, 10, 11, 12 (Seniors 1<sup>st</sup> semester only)**                      **.50 credit**

**Fee: \$10.00**

Students learn that cardiovascular fitness, strength, flexibility, endurance, weight control, nutrition and weight management are necessary for a healthy lifestyle. Students participate in a limited range of fitness activities, develop their own personal fitness plan, complete a fitness journal and improve their fitness levels. In addition, this class has a special emphasis to reduce injuries associated with contact sports by providing a more vigorous fitness for life curriculum. Through **intense** weight training and **demanding** cardiovascular conditioning students will strengthen muscles, joints, heart, and lungs to an elite level.

### **COMPETITIVE ATHLETES/ WRESTLING (606640)**

**Year**                      **9, 10, 11, 12**                      **1 credit**

**Fee: \$10.00**

This class is for anyone that is interested in wrestling or getting into great shape and becoming incredibly strong. During this class you will be expected to work out every day, to watch videos and read articles about exercise and working out. Those students that are planning on wrestling are highly encouraged to sign up for the class but it is not required. You do not need to be on the wrestling team in order to be able to attend this class.

### **LIFETIME SPORTS/BOWLING (606402)**

**Semester**                      **11, 12**                      **.50 credit**

**Fee: \$75.00**

This class will focus on activities in which a person can participate over the course of a lifetime. The emphasis will be on bowling but will also contain information and participation in other lifetime sports. This class will teach students the history, fundamental skills, general knowledge, and etiquette of bowling and other sports. Skills will be practiced, developed, and evaluated in the bowling alley setting.

### **LIFETIME SPORTS/BASKETBALL (606403)**

**Semester**                      **10, 11, 12**                      **.50 credit**

**Fee: \$10.00**

This course is designed to teach and to improve basketball fundamentals in a fun and organized team-like setting. Students will participate in basketball activities designed to enhance individual and team skills including competitions and skill challenges. The class provides a fun, team-like atmosphere for the basketball and team sport enthusiast.

### **WEIGHT TRAINING AND CONDITIONING (606801)**

**Semester**                      **10, 11, 12**                      **.50 credit**

**Fee: \$10.00**

This class is a great way to get your Physical Education Credit for graduation. Improve your fitness level while enjoying our fitness center and also our classic weight room. Modern training techniques will be used to increase muscle strength and endurance, plus increasing cardiovascular endurance. Six different training programs will be explored during this semester class. Emphasis is placed on participation and enjoyment, not on previous experience, strength, or skill. When completed each student should have a basic knowledge of the physiology of exercise, the effects of weight training on the body, and a higher level of physical fitness.

### **ADVANCED WEIGHT TRAINING I/II (606803)**

**Semester**                      **10, 11, 12**                      **.50 credit**

**Fee: \$10.00**

This class is for those students and athletes who want to push their bodies to the next level. In class you will work out daily. You will train for overall fitness and strength. During the course of the class students will also learn why we exercise the way we do, how to exercise more effectively, and how to program workouts for themselves and for others. The focus of this class is to promote lifelong fitness. **If you sign up for this class you will be expected to dress and participate every day to receive a grade.**

### **WOMENS ATHLETICS**

**(606601) - 1st Semester - Volleyball/Basketball**

**(606603) - 2nd Semester - Basketball/Softball**

**4A Period**                      **9, 10, 11, 12**                      **.50 credit**

**Fee: \$10.00 per semester**

Class is mandatory for sports listed above. Other sports teams are encouraged to register. Students should sign up for both semesters, regardless of sport played, to sustain maximum physical condition.

### **MENS ATHLETICS**

**(606602) - 1st Semester- Basketball/Baseball**

**(606604) - 2nd Semester-Basketball/Baseball**

**4B Period**                      **9, 10, 11, 12**                      **.50 credit**

**Fee: \$10.00 per semester**

Class is mandatory for sports listed above. Other sports teams are encouraged to register. Students should sign up for both semesters, regardless of sport played, to sustain maximum physical condition.

**SWIMMING (607001)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$10.00**

This class focuses on basic water skills for the beginning swimmer. This class is a great opportunity for students to improve their basic swimming skills. This P.E. class is organized to teach student stroke development, diving and lifesaving activities.

**SWIMMING/LIFEGUARD TRAINING (607002)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: Certification Cost: \$110.00, School Credit Only: \$10.00 (equipment rental)**

**Prerequisite: Students must be 15-years-old and be able to:**

1. Swim 500 yard continuously...200 front crawl, 100 yards breaststroke, 200 mixture of front crawl and breaststroke.
2. Swim 20 yards, surface dive to a depth of 7-10 feet, retrieve a 10-pound brick.

This class is the American Red Cross Lifeguard Training Course. This class will teach students the skills and knowledge needed to be a certified lifeguard. Students who choose to certify will receive two American Red Cross Certificates: (1) Lifeguard Training and First Aid (valid for three years) and (2) CPR for the Professional Rescuer (valid for one year.)

**SWIMMING 3-4 Swim Team**

**Women=s Team (607060)**

**Men=s Team (607070)**

**Year or Semester** 9, 10, 11, 12 1 or .5 credit

**Fee: \$20.00**

Join the State Championship men=s and women=s swim team and water polo team. Students learn the basic competitive swim strokes and are members of the Skyline Swim Team. No previous competitive swimming experience required. A time commitment before and after school is required.

**AEROBICS (607201)**

**Semester** 9, 10, 11, 12 .50 credit

**Fee: \$10.00**

Students will incorporate the components of fitness into a variety of both high impact and low impact training such as tai-bo, Zumba, and aerobics combined with core training and body sculpting.

**DANCE 1 (500000)**

**Year** 9, 10,11,12 1 credit

Students are provided experience in dance technique and the development of physical strength, flexibility, endurance, coordination, and total fitness. Students will expand their dance vocabulary and skills, and develop their creative abilities through improvisation, choreography, and performance. Students will also be exposed to the history of dance and its cultural origins.

**DANCE 1A (500001)**

**1st Semester** 9, 10,11,12 .5 credit

The same dance curriculum described above is also offered in a semester format.

**DANCE 2 (500100)**

**Year** 10,11,12 1 credit

**Prerequisite: Dance 1**

This course is designed to give students continued experience in dance. Skills from Dance 1 will be refined and expanded. Intermediate technique, performance ability, and dance production skills will be stressed. The class will participate in a dance concert in Winter and Spring.

**DANCE 3 (500200)**

**Year** 11,12 1 credit

**Prerequisite: Dance 1 and 2**

This class is the continuation of Dance 2. Students will continue to develop strong technical skills as well as refine improvisational skills. Performances and dance production will also be stressed within the structure of this class. The class will participate in a dance concert in Winter and Spring. Dancers will also have the opportunity to work with guest choreographers..

**BEGINNING BALLROOM DANCE (500300)**

**Year** 10,11,12 1 elective credit

This course is for men and women and will include basic steps for popular social ballroom dances, Swing, Cha-Cha, Waltz, Fox-trot, Tango, etc. It will also include additional, lively folk dances.

**BALLROOM TEAM (500400)**

**Year** 10,11,12 1 credit

**Fee: Participation: approx. \$310.00**

**Prerequisite: Successful audition, eligibility including a 2.5 GPA, and the instructor's permission**

This class is the continuation of beginning Ballroom Dance. This course builds upon the foundations of the basic ballroom styles. This course has an emphasis on student choreography, performance and technical ability.

### **DANCE COMPANY (500450)**

**Year** 9, 10, 11, 12      **1 credit**

**Fee: Participation: approx. \$310.00**

**Prerequisite: Successful audition, eligibility including a 2.5 GPA, and the instructor's permission**

This class explores dance as an art form for those students identified as being gifted in dance. Membership in Company includes experience in using the creative process, choreography, philosophy, improvisation, production and history. Students will develop advanced techniques to increase physical strength, flexibility, coordination, endurance and general fitness. Membership in the Dance Company includes opportunities for public performance and professional development through guest artists. Please investigate the responsibilities of membership if you are interested in auditioning.

### **CHEERLEADING (607570)**

**Year** 9, 10, 11, 12      **1 elective credit** (may receive 0.5 PE credit for second year on Varsity)

**Fee: Cheerleader: \$300.00 (approx.), Camp: \$220.00, Participation: \$35.00, Transportation: \$10.00**

**Prerequisites: Attend a mandatory parent/student meeting. Complete eligibility requirements including 2.7 GPA and 2.0 CPA. Successful tryout.**

## **PUBLICATIONS**

### **JOURNALISM 1 (569511)**

**Semester** 9, 10, 11, 12      **.5 elective credit**

Students will learn the role and significance of journalism in our society. They will learn to write all types of journalistic pieces--news, feature, sports, editorials--and will produce work to be published in *Horizon*, Skyline=s monthly newspaper. Journalism 1 is open to students of all grade levels, and is a prerequisite to Journalism 2, *Horizon*=s production staff.

### **JOURNALISM 2 (the Horizon Newspaper) (569520)**

**Year** 11, 12      **1 elective credit**

**Prerequisite: Journalism 1**

**Applications available from Mr. Moore (Rm 119 or 120)**

Students may take this class in both 11th and 12th grade. Advanced Journalism is a workshop-type program with the objective of planning and producing an excellent school newspaper, the *Horizon*. Enrollment is limited. New staff members will be selected on their demonstrated skills in the journalistic style of writing; their photography experience; their computer proficiency; and their graphics/artistic abilities. Advertising abilities will also be considered. Above all, each journalism student must be dependable, responsible, trustworthy, and self-motivated.

### **YEARBOOK (Desktop Publishing) (610421/610471)**

**Year** 9, 10, 11, 12      **1 CTE or elective credit**

**Applications available from Mr. Kapptie (Rm 303)**

The students in this course plan and produce the school yearbook, *The Aquilian*. Students receive training in layout, design, photography, cropping and editing photos, and writing stories and captions. This class does not count as an English credit.

### **LITERARY MAGAZINE (Satorian Staff) (569480)**

**Year** 10, 11, 12      **1 elective credit**

**Teacher's Approval Req: Mr. Erickson**

This class publishes the school magazine, *the Satorian*. It is an enrichment course designed to stimulate creativity, to advance writing experiences for interested students, and to help students develop literary form and production techniques. It searches excellent models, helps develop a sensitivity for words, and invites personal response to creative writing.

## **SCIENCE**

**Three years required to graduate.**

**Four years recommended if college bound.**

Students must complete at least 1 course from each area

Biological science: Biology, Biology honors, Medical Anatomy and Physiology, Zoology, AP Biology, AP Environmental Science

Physical Science: physics, chemistry, chemistry honors, physics honors, AP Chemistry and AP physics

## **EARTH SYSTEMS**

### **EARTH SCIENCE (600900)**

**Year** 9      **1 credit**

**Lab fee: \$10.00**

Earth Science provides students with an understanding of how the parts of a system work through the study of the Earth's cycles. Earth's place in the universe as well its internal structure, tectonic plates, atmospheric processes, and hydrosphere are explored to help students understand how those processes work.

## **BIOLOGICAL SCIENCES**

### **BIOLOGY (60100)**

**Year** 9, 10, 11, 12      **1 credit**

**Lab fee: \$10.00**

Biology exposes students to a wide range of biological science topics including: molecular biology, heredity and genetics, microorganisms, plants, evolution and ecology. Designed to meet the diversified needs of students who require biology graduation, this course covers all areas of biology.

### **HONORS BIOLOGY (601100)**

**Year** 9, 10, 11, 12      **1 credit**

**Lab fee: \$10.00**

Honors Biology exposes students to a wide range of biological topics including: molecular biology, heredity and genetics, microorganisms, plants, evolution, and ecology. The accelerated pace and in-depth coverage of material is designed to serve motivated students seeking to continue in AP or IB Biology courses. This course also fulfills a science graduation requirement.

### **AP BIOLOGY (601200)**

**Year** 10, 11, 12      **1 credit**

**Optional AP test-- cost: Approx. \$91.00, Lab Fee: \$25.00**

**Prerequisite: Biology or Anatomy and Physiology and Chemistry**

**After school labs are required**

This course is equivalent to a freshman biology course. Principle covered include: molecular and cellular biology, genetics, evolution, organisms and populations. Students who pass the AP Exam in May can receive up to 8 semester hours of university credit. This course is recommended for two types of students: those who are interested in a career in a biological related field, or those who want to get their college general science elective credit. Students should have completed or be currently enrolled in Chemistry.

### **MEDICAL ANATOMY and PHYSIOLOGY (645500)**

**Year** 11, 12      **1 credit**

**Prerequisite: B or better in Biology**

**Class/Lab fee: \$5.00**

This course provides students with an in-depth study of the human body and includes medical terminology, diseases and disorders, medical ethics and first aid. The class is designed to prepare students for a variety of health careers and to prepare them to succeed in a variety of health technology programs. Actual clinical experiences and service learning experiences help students decide if they should pursue a health occupation. **This course may also be taken to fulfill a third Science credit requirement or as a CTE requirement.**

### **ZOOLOGY 1 (602901)**

**Semester** 11, 12      **.50 elective credit or .50 credit for third year of Science**

**Lab fee: 10.00**

**Prerequisite: Biology**

This will be an introductory course in the study of animal anatomy and physiology. Topics covered will include, but are not limited to, evolution, genetics, environmental issues, invertebrate and vertebrate animals. Students planning to attend should have a desire to learn about how animals function.

### **ZOOLOGY 2 (602902)**

**Semester** 11, 12      **.50 elective credit or .50 credit for third year of Science**

**Lab fee: \$10.00**

**Prerequisite: Biology**

This will be a continuing course in the study of animal anatomy and physiology. Topics covered will include, but are not limited to fish, amphibians, reptiles, birds, mammals and a comparative perspective of some of the higher vertebrates. Students planning to attend should have a desire to learn about how animals function scientifically.

### **AP ENVIRONMENTAL SCIENCE (602570)**

**Year** 11, 12      **1 elective credit or 3<sup>rd</sup> Science credit**

**Optional AP test-- cost: Approx. \$91.00, Lab Fee: \$15.00**

**Prerequisite: One year of Biology credit AND one year of either Chemistry or Physics credit AND Secondary Math II**

This class is equivalent to a one-semester course of Environmental Science in college. The goal of this course is to provide students with the tools necessary to understand the connections of ecosystems of the earth, identify problems that are both natural and



human-made, then evaluate them and become part of the solution. Areas of interest include global warming, species extinction, air and water pollution, toxic wastes, population dynamics, recycling and tropical rain forest loss. This class is not a lab credit science.

## **PHYSICAL SCIENCES**

### **CHEMISTRY (601500)**

Year 10, 11, 12 1 credit

Lab fee: \$10.00

**Prerequisite: Secondary Math I & Biology**

This is a course for students who need a basic chemistry background and who do not intend to pursue a scientific career. Basic atomic theory, formulas, equations, the nature of chemical reactions, states of matter, equilibrium, acids, bases, organic chemistry, and nuclear chemistry are presented as they relate to society.

### **CHEMISTRY HONORS (601600)**

Year 10, 11, 12 1 credit

Lab fee: \$15.00

**Prerequisite: Secondary Math II with a B+ or better every term**

**Secondary Math I may be taken concurrently with Chemistry Honors**

This is a course in chemistry for those students who will pursue vocations in the sciences, medicine, or related fields at the college level. Principles, concepts, and quantitative thinking are emphasized. The course covers atomic theory, gases, equilibrium, and other principles of chemistry. Emphasis is placed on the mathematics of principles covered.

### **AP CHEMISTRY (601700)**

Year 11, 12 1 credit

**Optional AP test-- cost: Approx. \$91.00, Lab Fee: \$35.00**

**Optional AP Chem. Lab Course (Chem. 1070 and 1080) at the U of U cost: Approx. \$320.00**

**Prerequisite: Chemistry Honors and Secondary Math III**

It is strongly recommended that students who enroll in AP Chemistry take the associated cooperative University of Utah and High School Laboratory classes. (Chem. 1070 and 1080) Students who pass these classes with a "C-" or higher will receive two semester credits of university chemistry lab credit. This course is equivalent to a freshman chemistry course at a University. The principles of chemistry are covered in depth with extensive use of mathematics. Some descriptive study of the elements is also included, along with sophisticated laboratory work with emphasis on individual performance.

### **PHYSICS (602000)**

Year 9, 10, 11, 12 1 credit

Lab fee: \$5.00

**Prerequisite: Secondary Math I**

Physics is the treatment of the conceptual principles of physics. Laboratory work is performed to reinforce the concepts covered. Physics helps students enjoy and understand the world around them while giving them a solid basis from which to study a wide range of other fields. The subject areas covered are the same as in Honors Physics.

### **PHYSICS HONORS (602100)**

Year 10, 11, 12 1 credit

Lab fee: \$5.00

**Pre-requisite: Secondary Math II or equivalent**

Honors Physics is an encompassing treatment of the principles of physics requiring students to perform extensive mathematical analysis. Topics include kinematics, Newton's laws of motion, gravitation, conservation of energy, waves, and electrostatics. Laboratory work will reinforce conceptual understanding of content.

### **AP PHYSICS 1 (602130)**

Year 11, 12 1 credit

**Optional AP test-- cost: Approx. \$93.00, Lab Fee: \$5.00**

**Prerequisites: Honors Physics, Secondary Math II**

AP Physics is an Algebra/Trig based, college level Physics course which is configured for students who seek a foundation in the mathematical problem techniques in Physics with application to the fields of Science and Engineering. The course covers Classical Mechanics. Good performance on the AP exams enables students to receive credit for half year of physics study required for science and engineering programs at most universities.

### **AP Physics C: Mechanics (602150)**

Year 11-12 1 Credit

Optional AP test—cost Approx.: \$93.00, Lab Fee: \$5.00

Prerequisite: Honors Physics, Secondary Math III

Co-requisite: Calculus

AP Physics C: Mechanics is equivalent to a one-semester, calculus based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and

oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

**GEOLOGY CE (603591) *Must be taken as a concurrent enrollment class.***

**Semester** 11, 12 .50 elective credit or .50 credit for third year of Science

**3 semester hours at S.L.C.C.**

**Lab fee: \$10.00, Must purchase textbook \$100+**

**College Registration Fee: \$40.00 (one-time fee)**

**Partial Tuition Fee: \$5.00 per credit**

Introduction to Geology is a study of the processes and materials that shape the earth. This course includes mineral identification, map reading, deposition, volcanism, earthquake, and continental drift. The student must register at S.L.C.C. for the 3 credit course. The course grade will appear on the student's Skyline and S.L.C.C. transcript. Students are required to purchase the S.L.C.C. textbook used for Introduction to Geology during the semester at S.L.C.C..

**ASTRONOMY CE (603581) *Must be taken as a concurrent enrollment class.***

**Semester** 11, 12 .50 elective credit or .50 credit for third year of Science

**3 semester hours at S.L.C.C.**

**Lab fee: \$10.00, Must purchase textbook \$100+**

**Partial Tuition Fee: \$5.00 per credit**

This course presents a descriptive introduction to the content of the cosmos. It offers the student an opportunity to study the formation, structure and future of the large-scale universe including galaxies and interstellar matter, life and death of stars, and the formation and structure of our own solar system. The topic of extra-terrestrial life is presented. Emphasis is placed on the knowledge gained through the science exploration projects of the Space Program.

## **SERVICE LEARNING**

**COMMUNITY OF CARING 1 (692151)**

**Semester** 10, 11, 12 .50 credit

**Class Fee: \$15.00**

**Service hours requirement - 10 hours a quarter**

This introductory class is designed for students who want to learn about and get involved in community service. The class focuses on developing skills for direct, indirect and advocacy service. Students will receive training in leadership skills and serve as volunteers in elementary schools and other community organizations. Students will broaden knowledge of many volunteer agencies in our community and learn how to be a valuable volunteer. Students will be exposed to many guest speakers and teen forums. Learn how you help yourself while helping others. For more information, contact Ms. Angela Folsom (abfolsom1@graniteschools.org)

**COMMUNITY OF CARING 2 (692160)**

**Year** 11, 12 1 credit

**Class Fee: \$20.00**

**Service hours requirement - 10 hours a quarter**

This year-long service class is designed for students who desire to make a difference in their school, neighborhood and community and is for students who want to delve into service, sit on committees that plan projects and intern at a service site. Community of Caring board members will lead committees in the class. Students will be leaders in the school for community service outreach. They will plan school-wide service projects and develop leadership skills through the process. Great personal skill development and excellent resume experience. Service site hours can be applied to the Service Scholar Program. For more information, contact Ms. Angela Folsom (abfolsom1@graniteschools.org)

**JOANIE DAILY SERVICE LEARNING SCHOLAR AWARD PROGRAM**

**Fee: \$15.00**

**Application Required**

Students earn this award by completing, at a minimum, 170 hours of volunteer service during their high school years. Scholars will be spotlighted at a banquet at the end of their senior year. Scholars will receive a seal on their diploma, a cord of distinction and a medallion to wear at graduation. Hours must be completed in person at a non-profit agency, school or hospital. Hours will be documented in a portfolio due in January of student's senior year. Applications and packets outlining all criteria for award can be picked up in the Community of Caring Room, room 112.

## **SOCIAL STUDIES**

**A full year of Geography, a full year of United States History, a full year of World Civilizations, and a semester of United States Government are required for graduation.**

**GEOGRAPHY FOR LIFE (584000)**

**Year** 9 1 credit

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.

### **GEOGRAPHY FOR LIFE HONORS (584100)**

**Year**                                **9**                                **1 credit**

Students will learn about the five themes of location, place, human environment interaction, movement and regions. Students will work at a quick pace and have increased homework, including outside of class research. Students should be self-motivated with a desire to participate in group discussions.

### **AP HUMAN GEOGRAPHY (584200)**

**Year**                                **9**                                **1 credit**

AP Human Geography is a yearlong course that focuses on the distribution, processes, and effects of human populations on the planet. The course provides a systematic study of human geography, including the following topics outlined in the Course Description: Nature of and Perspectives on Geography, Population, Cultural Patterns and Processes, Political Organization of Space, Agricultural and Rural Land Use, Industrialization and Economic Development, Cities and Urban Land Use. The class is open to all 9th graders and fulfills the 9th grade Geography requirement, but it is quite challenging and requires a substantial amount of out of class time spent reading, studying, and completing other assignments. At the completion of this course students will take the AP Human Geography test for college credit.

### **UNITED STATES HISTORY 2 (584800)**

**Year**                                **11, 12**                                **1 credit**

This course will help students make connections between their world and the rich heritage of United States history. This course will include a review of United States history from European Colonization through Reconstruction with an emphasis placed on post-Reconstruction America through the early 1900's. It will continue with a review of major events leading to the twentieth century. It will concentrate on America's role since the early 1900's, the way the United States reached and maintains its present position of power in the world community, and current national problems that confront the United States.

### **AP UNITED STATES HISTORY (584970)**

**Year**                                **11, 12**                                **1 credit**

**Optional AP test cost: Approx. \$91.00**

AP United States History is a course designed to help students develop analytical skills and the factual knowledge necessary to critically deal with problems in American History. Students are expected to meet class requirements equivalent to a full-year introductory college course. The course will give students a chronological background of American history and skills necessary for answering interpretative essay questions.

### **UNITED STATES GOVERNMENT (585201)**

**Semester**                                **11, 12**                                **.50 credit**

***This class is required for seniors due to their proximity to voting and draft age.***

This course is designed to give students a critical perspective on politics and government in the UNITED STATES, with emphasis placed on the Constitution. Various institutions, beliefs, and ideas will be studied and discussed. Current events and upcoming elections will also be analyzed.

### **AP AMERICAN GOVERNMENT (585301)**

**Semester**                                **11, 12**                                **.50 credit**

**Optional AP test-- cost: Approx. \$91.00**

**This is a rigorous class. See Mr. Reid (Rm. 166) for specific course content**

This Advanced Placement course in American Government and Politics is designed to give students a critical perspective on politics and government in the United States. The course involves both the study of general concepts used to interpret American politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality.

### **PSYCHOLOGY (585401)**

**Semester**                                **11, 12**                                **.50 elective credit**

**Lab Fee: \$10.00**

This course introduces the student to the study of the behavior of individuals. It emphasizes the manner in which the individual can apply various psychological theories and concepts to better understand one's self, one's motives, and one's relationships with other people.

### **AP PSYCHOLOGY (585460)**

**Year**                                **11, 12**                                **1 elective credit**

**Optional AP test-- cost: Approx. \$91.00**

**Lab Fee: \$10.00**

AP Psychology is a full year of intensive study in which student will become familiar with the concepts of the science of the study of the brain. The focus of the class is on the biological basis for behavior and mental processes and the scientific method of

psychological research. Only highly motivated students are recommended to enroll in this class.

### **AP EUROPEAN HISTORY (584650)**

**Year** 10, 11, 12 **1 credit**

**Optional AP test cost: Approx. \$93.00**

**Lab Fee: \$5.00**

AP European History focuses on military, political and social events from the Renaissance through the collapse of the Soviet Union. There's no need to watch soap operas if you take this class-it has all the drama but it's the story of real people. It is designed to prepare a student for the demands of a college level course and pass the AP exam. Students should be able to take notes and have strong memorization skills. The course fills a variety of high school and college requirements. It fills the required World History credit (10<sup>th</sup> grade,) it may be used as a Social studies elective credit (10, 11, 12<sup>th</sup>,) and it is the required IB standard level history course for those in the IB program. Students who pass the national exam in May are rewarded with 6-12 college credits. (Credits vary so contact your college or university for specifics.) The class is a lecture format presented through power point presentations and DVD excerpts.

### **WORLD CIVILIZATIONS (584410)**

**Year** 10 **1 credit**

This course will include one term of ancient civilizations and one term of classical and medieval civilizations which will include the contributions of Greece and Rome to modern cultures. In ancient civilizations the history, achievements, and contributions of those people will be analyzed by studying one or more of the ancient cultures. It will continue with a study of the important developments in history, science, industry, and culture from the beginning of the Renaissance period to develop an understanding of how the modern world evolved. The non-western culture will study one or more of the following: Africa, Latin America, China, India, Japan or the Middle East.

### **AP WORLD HISTORY (584600)**

**Year** 10, 11, 12 **1 credit**

**Optional AP test cost: Approx. \$91.00**

The purpose of the AP World History course is to develop greater understanding of the evolution of the global processes and contacts, in interaction with different types of human societies, and prepare the student for the demands of college level work. **Prerequisites:** For this intensive class all students enrolled in AP World History should be outstanding readers, exhibit above average knowledge concerning historical and political events. Each student should take this class with the expectation of passing the AP World History exam held each May.

### **THEORY OF KNOWLEDGE Part 1 (586581)**

**Semester** 11, 12 **.50 elective credit**

Theory of Knowledge is unlike any class you've had before! This is an IB class, but is open to all! It challenges students to reflect critically on the different ways by which we know things; not what to think, but HOW to think. Students will also link different areas of knowledge such as ethics, social and natural sciences, and art math, history, etc. Class format will focus on questioning, debate, readings, discussion, research and presentations.

### **THEORY OF KNOWLEDGE Part 2 (586591)**

**Semester** 12 **.50 elective credit**

The thinking continues. Same format as Part 1, but students will incorporate a research paper and a group presentation project as part of the curriculum. IB credit, but open to anyone!

## **SPECIAL EDUCATION**

Students who currently have an IEP (Individualized Educational Plan) and live in Skyline boundaries have an assigned case manager. Students will need the colored registration card given them when the counselors went into classes and the Special Education class request form they received from the casefile manager from Skyline. If you did not receive both forms, please contact any Special Education teacher or counselor at Skyline High School.

## **WORLD LANGUAGES**

### **AMERICAN SIGN LANGUAGE 1 (562800)**

**Year** 9, 10, 11, 12 **1 credit**

**Fee: \$5.00**

American Sign Language is the third most used language in the United States and it counts for World Language credit at universities across the country, including Ivy League Schools. You may not realize it, but Deaf culture is radically different from American hearing culture. ASL grammar is nothing like English and the signs are not obvious to the untrained eye. In this class, a new world and language will be opened up that you can use with fluent signers right in your own school...a world you probably never knew even existed in this country. This class is mainly voice off and very interactive. This class does NOT participate in Sign A Song. If you hope to participate, you will need to sign up for ASL 1 Honors.

### **AMERICAN SIGN LANGUAGE 1 HONORS (562810)**

)  
**Year** 9, 10, 11, 12 1 credit

**Fee: \$10.00**

You DO NOT need to know any ASL at all to sign up for your ASL 1 Honors. So who should sign up for ASL 1 Honors? Students who enjoy more hands on/real world activities and like to USE their news skills not just learn new skills. This class is a good choice for anyone who plans to attend college and is looking for honor classes to make a stronger impression. ASL 1 Honors doesn't mean extra busy work. This class is meant to move students to a more advanced level and incorporate higher thinking skills. This class is fun, interactive and voice off most of the time. If you wish to participate in Sign A Song, you will need to take this class. This class will provide you with service opportunities to assist you in graduating with honors from the nationally recognized American Sign Language Honor Society.

### **AMERICAN SIGN LANGUAGE 2 (562840)**

**Year** 10, 11, 12 1 credit

**Prerequisite: Successful completion of Level 1.**

**Fee: \$5.00**

With some prior experience using ASL at the beginning level, you will be prepared to continue your ASL education in the ASL 2 class. Some of this class will be a repeat of ASL 1, but you will learn new topic to build your skills upon. This class is mainly voice off and very interactive. This class does not participate in Sign A Song. If you wish to participate, you will need to take ASL 2 Honors. ASL 2 or 2 Honors is one of the requirements if you anticipate graduating with the ASLHS honor cords.

### **AMERICAN SIGN LANGUAGE 2 HONORS (562850)**

**Year** 10, 11, 12 1 credit

**Prerequisite: Successful completion of ASL Level 1.**

**Fee: \$10.00**

ASL 2 Honors doesn't mean extra busy work. This class is meant to move students to a more advanced level and incorporate higher thinking skills. Traditionally this class has worked with the elementary school, junior high and has helped to organize the school's Deaf Awareness Week. This class is fun, interactive and voice off. If you wish to participate in Sign A Song, you will need to take this class. This class will provide you with service opportunities to assist you in graduating with honors from the nationally recognized American Sign Language Honor Society. ASL 2 or 2 Honors is one of the requirements if you anticipate graduating with the ASLHS honor cords. If the honor cords is a goal of yours, this class is more likely to assist you.

### **AMERICAN SIGN LANGUAGE 3 (562870)**

**Year** 11, 12 1 credit

**Prerequisite: Successful completion of ASL Level 2.**

**Fee: \$5.00**

ASL 3 is a great class for those who plan to turn their ASL skills into a career, intend to pursue ASL at the university level as well as for those who enjoyed the first two classes. This class mainly focuses on practical application and fine tuning grammar skills. This class is voice off and highly interactive. This class does not participate in Sign A Song. If you wish to participate, you will need to take ASL 3 Honors. ASL 3 or 3 Honors is one of the requirements if you anticipate graduating with the ASLHS Laurent Clerc medal of honor.

### **AMERICAN SIGN LANGUAGE 3 HONORS (562880)**

**Year** 11, 12 1 credit

**Prerequisite: Successful completion of Level 2 with a "B" average and a conference with the teacher.**

**Fee: \$10.00**

ASL 3 Honors doesn't mean extra busy work. This class is meant to move students to a more advanced level and incorporate higher thinking skills. Traditionally this class has done a play in ASL, worked with students at the Deaf school, made Bill Nye-like videos for Deaf students and more. This class is extremely fun, interactive and voice off. If you wish to participate in Sign A Song, you will need to take this class. This class will provide you with service opportunities to assist you in graduating with honors from the nationally recognized American Sign Language Honor Society. ASL 3 or 3 Honors is one of the requirements if you anticipate graduating with the ASLHS Laurent Clerc Medal of Honor. If the Laurent Clerc Medal of Honor is a goal of yours, this class is more likely to assist you.

### **MANDARIN CHINESE 1 (561300)**

**Year** 9, 10, 11, 12 1 credit

This is a beginning course. Listening and speaking skills will be emphasized but students will also be introduced to written Chinese characters. Chinese culture will be studied throughout the course. Students will interact with everyday topics that affect them directly.

### **MANDARIN CHINESE 2 (561350)**

**Year** 9, 10, 11, 12 1 credit

**Prerequisite: Mandarin Chinese 1 at Skyline or Placement Test if coming from Jr. High**

This second-year course is a continuation of the study of Chinese grammar, conversation, culture and customs. Conversation topics include family, weather, food, clothing, sports and health. More written Chinese characters will be introduced. Students will be able to navigate with the language when talking about familiar topics related to their daily life.

### **MANDARIN CHINESE 3 (561400)**

**Year 9, 10, 11, 12 1 credit**

***Prerequisite: Mandarin Chinese 2 at Skyline or Placement Test if coming from Jr. High or Interview with Instructor (Heritage Learners)***

This third-year course is a continuation of the study of Chinese grammar, conversation, culture and customs. This course stresses reading, writing, and speaking skills as well as the use of more elaborate grammar structures. Aural comprehension, oral practice, Chinese culture and history are emphasized as they relate to the reading program. Recognizing an increased number of Chinese characters on a consistent basis will be achieved. Students will produce sentence-level language, ranging from discrete sentences to strings of sentences, typically in present time.

#### **MANDARIN CHINESE 4 (561450)**

**Year 10, 11, 12 1 credit**

***Prerequisite: Mandarin Chinese 3 at Skyline or Interview with Instructor***

In this fourth-year course students will study Chinese compositions focusing on handling narration and description in the major time frames of past, present and future. With authentic materials added to the course, it stresses reading, writing, and speaking skills as well as the use of more elaborate grammar structures. Students will also deal with a social situation with unexpected complications.

#### **MANDARIN CHINESE 5 (561460)**

**Year 11, 12 1 credit**

***Prerequisite: Mandarin Chinese 4 at Skyline or Interview with Instructor***

This fifth-year course is a continuation of the study of Chinese compositions. Students preparing for the AP Chinese test will take this course. More authentic materials will be used to enhance students' ability in listening, speaking, reading and writing. Students will also be able to touch more difficult fields like economy and politics. Longer written sentences and paragraph composition will be emphasized.

#### **FRENCH 1 (560100)**

**Year 9, 10, 11, 12 1 credit**

This course starts right at the beginning of the beautiful French language and culture. The student will learn vocabulary and grammar structures that will help in conversing about familiar subjects. Maximum exposure and practice of the language is assured through the total immersion environment in which it is taught. Insights into the culture and traditions of the French speaking world are integral parts of the course.

#### **FRENCH 2 (560150)**

**Year 9, 10, 11, 12 1 credit**

This course offers a review of French 1 and then is designed to increase proficiency in basic French language and culture. Maximum exposure and practice of the language is assured through the total immersion environment in which it is taught. Insights into the culture and traditions of the French speaking world are integral parts of the course.

#### **FRENCH 3 (560200)**

**Year 9, 10, 11, 12 1 credit**

***Prerequisite: French 2 or equivalent***

This class is a must for students who want to continue in their mastery of the French language. French 3 rounds off the study of language elements, and gives the students the opportunity to begin to master speaking and writing in French. Class activities, presentations, and cultural experiences provide generous speaking, reading, and writing opportunities to communicate in French.

#### **FRENCH 3 HONORS (560250)**

**Year 9, 10, 11, 12 1 credit**

***Prerequisite: Minimum A- average in French 1,2***

Honors French 3 rounds off the study of language elements, and gives the students the opportunity to begin mastery in speaking and writing intermediate/advanced French. Class activities, presentations, and cultural experiences provide generous speaking, reading and writing opportunities to communicate in the French language. This class is recommended for those students who are planning on continuing to French 4, are enrolled in the IB program, or who eventually plan to enroll in AP French their senior year.

#### **FRENCH 4 (560300)**

**Year 10, 11, 12 1 credit**

***Prerequisite: French 3 or equivalent***

Ready to put your French study to practice? Learn about the people, places, literature, history, music of the French speaking people. Study and talk about their culture through movies, books, songs, poetry. Review and master language principles in the context of the language itself. Start to see the fruits of your French language study come together. This class is a pre-requisite for juniors who intend on enrolling in the French IB/AP class their senior year, where those tests will be administered. (It is highly suggested that those students who complete this class in their sophomore year, and who plan on taking French IB/AP their senior year, take French 5 their junior year.

#### **FRENCH 5 (560350)**

**Year 11, 12 1 credit**

***Prerequisite: French 4 or equivalent***

French 5 is the first part of the AP/IB curriculum. It is highly recommended that those junior students who entered the high school French program at level 4 French take this class before taking the AP or IB tests during their senior year. French 5 is also for senior students who want to continue on in French, but who are not taking the AP or IB tests.

### **FRENCH 5 DLI HONORS (DUAL LANGUAGE IMMERSION STUDENTS ONLY) (560320)**

**Year** 9 1 credit

**Prerequisite:** *French 4 DLI Honors (560310)*

This course is designed specifically for students that have been in the dual immersion program. It continues the development of speaking, listening, reading and writing skills through advanced writing and speaking tasks and the use of authentic reading and listening texts. Narratives and dialogues are used to teach structure and vocabulary. Culture and history of French-speaking countries are taught through authentic reading selections. The end-of-year proficiency targets are Intermediate High (Reading, Writing and Speaking) and Advanced Low (Listening). Students have the option to take the AP French Language and Culture Exam and the end of the year. *For Dual Language Immersion (DLI) students only.*

### **AP FRENCH (560400)**

**Year** (11-if French 5 level has been achieved), 12 1 credit

**Prerequisite:** *French 5 or equivalent*

**Optional AP test-- cost: Approx. \$91.00**

AP French is for the serious student who would like to develop a high-level proficiency in writing, speaking, listening and reading. The course is designed to review essential language principles and usage in order to prepare the students for the AP test. It is the second half of the AP curriculum that was taught in French 5 (It is recommended that students, who took French 4 their sophomore year, take French 5 before taking this course their senior year.)

### **AP FRENCH (560400)**

**Year** 11, 12 1 credit

**Prerequisite:** *French 4 (and French 5 for students entering high school program at level 4.)*

**Optional AP test-- cost: Approx. \$91.00**

AP French is for the serious student who would like to develop a high-level proficiency in writing, speaking, listening and reading. The course is designed to review essential language principles and usage in order to prepare the students for the AP test. (It is recommended that students, who took French 4 their sophomore year, take French 5 before taking this course their senior year.)

### **SPANISH 1 (561600)**

**Year** 9, 10, 11, 12 1 credit

Begin your introduction to the second most useful language in the United States. Learn practical and worthwhile Spanish phrases, vocabulary, and meaningful communication skills. Explore the exciting Latin culture and traditions with an up-close study of some of the world's most beautiful Spanish speaking countries.

### **SPANISH 2 (561650)**

**Year** 9, 10, 11, 12 1 credit

**Prerequisite:** *Spanish 1*

Continue your study of Spanish, the second most useful language in the United States. Continue your development of useful phrases, vocabulary, and communication skills through the use of narratives. Students will learn more about Spanish culture, geography and general history through varied reading selections.

### **SPANISH 3 (561700)**

**Year** 9, 10, 11, 12 1 credit

**Prerequisite:** *Spanish 2*

Third-year Spanish is for those students who want to increase their fluency in the language. This class emphasizes the four language skills of listening, speaking, reading and writing. The class is conducted almost exclusively in Spanish. It also includes short narratives, culture, history and geography.

### **SPANISH 3 HONORS (561750)**

**Year** 9, 10, 11, 12 1 credit

**Prerequisite:** *Spanish 2*

Round off your learning of advanced Spanish language skills through speaking, reading, writing and listening activities. Experience the exciting Latino culture through music, dance, literature, geography and history.

### **SPANISH 4 (561800)**

**Year** 10, 11, 12 1 credit

**Prerequisite:** *Spanish 3*

This course will focus on the use of the Spanish language through literature, current issues and events. Students will conduct group discussions and do oral and written presentations applying all four learning skills. Culture, history, art, music, and traditions of the Hispanic world will be included. This course is preparatory to 5<sup>th</sup> level Spanish.

### **AP SPANISH (561860)**

**Year** 11, 12 1 credit

**Optional AP test-- cost: Approx. \$91.00**

Fifth year Spanish strives for the highest proficiency level. Students do individual, pair and group **oral** presentations; formal and informal **writing**; **listen** to current news, documentaries, radio soap operas, conferences, etc., and **read** a variety of printed documents such as newspapers, magazines, articles, letters, and short novels. The course has an infusion of literature and culture to round out a wonderful journey in the Spanish language.

**LDS SEMINARY (Released Time)**

**Year or Semester**

**9, 10, 11, 12**

**1st Semester -- 9<sup>th</sup> grade (008101) 10-12 grades (008001)**

**2nd Semester --9<sup>th</sup> grade (008102) 10-12 grades (008002)**

**\*(008100) - Early Morning 9<sup>th</sup> grade (0 period) Year**

**\*(008000) - Early Morning 10-12<sup>h</sup> grade (0 period) Year**

**\*Requires the signature of seminary principal.**

**OTHER**

**DIRECTED STUDIES (691401)**

**Semester 9, 10, 11, 12 .50 elective credit**

Directed Studies is a class designed to help students complete homework assignments from other classes. It is also designed to provide a review of study skills for success in high school and beyond. The following skills will be covered: setting goals, time management, remembering and reproducing what you learn, textbook reading, note taking, etc. A portion of each class period will be used for study skill development.

**FRESHMAN ACADEMY (691471, and 691472 Honors)**

**Semester 9 .50 elective credit**

Demonstrate knowledge and understanding of how to effectively navigate high school. To develop the skills to be self-directed, organized, and prepared for college, career and life. This class will also help students develop the skills to understand and appreciate themselves and others. It will help them acquire self-knowledge and develop the skills to understand and appreciate self and others as a contributing citizen in our community and to be aware of and develop social and emotional skills. Students will also explore and evaluate resources to become college, career and life ready

**STUDENT GOVERNMENT/STUDENT BODY and ALL CLASS OFFICERS (691800)**

**Year 11, 12 1 elective credit**

Elections, auditions, or other tryout requirements must be completed prior to enrolling in this course. Sophomores will register after elections are held in the fall.

**TEACHER ASSISTANT OR OFFICE AIDE (694751, 694752, 694753)**

**Semester 11, 12 .50 elective credit**

**Minimum of 3.0 GPA and CPA required**

**Teacher signature on card required**

Students wanting to assist as a teacher=s aide or office aide for a semester or for the full year must sign up with their individual counselors after receiving permission from the teacher or secretary involved. No more than one unit of credit can be earned as an Office Aide or T A in grades 11-12. Will be graded P/F with a citizenship grade.

**WORK EXPERIENCE (650200-Yr., 650201-Sem.)**

**Year or Semester 12 Up to 4 elective credits**

**Prerequisite: Current Employment**

Students wanting credit for work experience for the semester or the year must have a job that issues pay stubs and reports taxes. Students must fill out the work experience packet, obtain all necessary signatures, report hours worked and turn in pay stubs. Students will not put this on their registration card but will go into the counseling center to pick up the form to fill out.

**HOME RELEASE (008801, 008802)**

**Semester 12**

Home Release is only for seniors who are on track for graduation with their current schedule and have all Credit Recovery made up. You may only take one period per semester. Please see your counselor.

**Career and Technical Education  
You Design Your Future!**

**\*\*Many classes are CE classes. (Concurrent Enrollment College Course)**



**It is the student's responsibility to apply (\$40.00 non-refundable fee) to the Salt Lake Community College by AUGUST 31st.** Students must also pay (to the college) a \$5.00 fee per credit hour (non-refundable).

## **SKYLINE CLASSES – CTE CLASS**

### **SPORTS MEDICINE CE (645250/645200)**

**Year** 11, 12 1 CTE or elective credit, 3 CE credits

**Prerequisite:** *Biology/Anatomy and Physiology or see Mrs. Robinson (rm. 135)*

**Concurrent enrollment registration through UVU is available but not required. \$35.00**

**Lab Fee: \$20.00 per year**

**Partial Tuition Fee: \$5.00 per credit**

This course is designed to teach students components of Exercise Science including detailed anatomy, injury evaluation, management, and rehabilitation. Health careers associated with Exercise Science, such as physical therapy and athletic training, will be explored. Students learn the elements of first aid and experience firsthand the prevention, evaluation, and treatment of injuries.

### **DIGITAL MEDIA I (640000)**

**Year** 9, 10, 11, 12 1 CTE or elective credit

**Fee: \$20.00 per year**

Designed specifically for students who want to develop their creativity using exciting, new multimedia/computer technologies. Students will use a variety of computer software to learn photo manipulation, graphic design, web design, animation, digital music composing, and video production. As part of the class, students may optionally participate in an annual film-festival. Students will leave the class with an interactive portfolio showcasing the year's work.

### **DIGITAL MEDIA II (640100)**

**Year** 10, 11, 12 1 CTE or elective credit

**Prerequisite:** *Digital Media I*

This second year of Multimedia is designed to train students in marketable skills for the production of multimedia. Students will expand the knowledge they learned in Multimedia Design as they take a deeper exploration in 3-D graphics, animation, scripting, storyboarding, video production, audio mixing, and project development. This is the place to create a portfolio for college and/or future employment.

### **COMPUTER SCIENCE PRINCIPLES (640610)**

**Year** 10, 11, 12 1 CTE or elective or Science credit

**Prerequisite:** *Computer Technology or Exploring Computer Science*

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.

### **COMPUTER PROGRAMMING 1 (640400)**

**Year** 9, 10, 11, 12 1 CTE or elective or 3<sup>rd</sup> year Math credit

**Prerequisite:** *Exploring Computer Science or Computer Technology*

**If you have not met the prerequisite you may take it simultaneously with Exploring Computer Science.**

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. Introduction to programming language such as C++, C#, Java, Python and Processing. This course may also be taken to fulfill a third math credit requirement.

### **COMPUTER PROGRAMMING 2 (640520)**

**Year** 10, 11, 12 1 credit

**Prerequisite:** *Computer Programming I*

This is a second year programming/CS course catered to students pursuing IB/AP computer science. Students will continue the study of prominent object oriented languages including C++, Python, Java and C# in preparation for the applicable state and/or AP/IB exams. Current hardware, operating systems, applied electronics and up to date IDE's are all used in approaching highly technical and real world solutions resulting in skilled jobs and excellent education opportunities."

### **IB COMPUTER PROGRAMMING 2 (640520)**

**Year** 11, 12 1 credit

**Prerequisite:** *Computer Programming I*

This is a second year programming/CS course catered to students pursuing IB/AP computer science. Students will continue the study of prominent object oriented languages including C++, Python, Java and C# in preparation for the applicable state and/or AP/IB exams. Current hardware, operating systems, applied electronics and up to date IDE's are all used in approaching highly technical and real world solutions resulting in skilled jobs and excellent education opportunities."

### **EXPLORING COMPUTER SCIENCE (Computer Technology) (642001)**

**Semester** 9, 10, 11, 12 .50 credit

*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. 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. This course fulfills the computer literacy graduation requirement.

### **EXPLORING COMPUTER SCIENCE II (Robotics for Competition) (642051)**

**Semester** 9, 10, 11, 12 .50 credit

**Prerequisite:** *Exploring Computer Science*

**If you have not met the prerequisite you may take it simultaneously with Exploring Computer Science.**

This course follows the standards and objectives for ECS II with a special focus on preparing robots for various competitions throughout Utah. Students will engage in problem solving, human computer interaction, data analysis, programming, and basic engineering concepts specific to modern robotics. Be a part of Skyline's various robotics teams and compete with your peers throughout the year. A web-based portfolio of your strategies and experiences will be prepared at the conclusion of the course. Optional TSA registration and membership fees of \$20 required for students participating in competitions. Course offered first semester only!

### **YEARBOOK (Desktop Publishing) (610421/610471)**

**Year** 9, 10, 11, 12 1 CTE or elective credit

**Applications available from Mr. Kapptie (Rm 303)**

The students in this course plan and produce the school yearbook, *The Aquilian*. Students receive training in layout, design, photography, cropping and editing photos, and writing stories and captions. This class does not count as an English credit.

### **GRAPHICS (626500) CE – SLCC Art 1240**

**Year** 10, 11, 12

**Concurrent Education Credit and 1 high school CTE or elective credit**

**Fee: Approx. \$40.00 per year**

**Concurrent Credit Available**

This course educates students using Mac computers to run Adobe Illustrator, Photoshop, InDesign, Photobooth, and other various applications. This software will be used to create cool designs for a variety of products like t-shirts, vinyl stickers, notepads, magnets, buttons and other products. Students get an exciting, hands-on, real world experience in digital media technology that gives them that competitive edge for post high school education and the future job market. Graphics is a fun and creative experience for everyone from beginner to expert.

### **ADVANCED GRAPHICS COMMUNICATIONS (626650)**

**Year (1 Period)** 11, 12 1 CTE or elective credit

**Prerequisite:** *Introduction to Graphics 1-2 or teacher recommendation*

**Fee: \$40.00 per year**

**Concurrent Credit Available**

This second year course takes students into the advanced levels of Adobe Illustrator, Photoshop, and InDesign used to produce exciting, professional quality designs, and products. T-shirt printing up to six colors, multi-colored vinyl banners and signs, offset printing products and visual, digital media and manipulation. Students work with school groups and other organizations to develop customer products and understand professional relationships, work flow, management and quality skills so they are prepared to meet the demands of college and careers. Students learn about business and money to help give students a competitive edge. This is wonderful, real-world, technological experience like none other.

### **LAW ENFORCEMENT (629001)**

**Semester** 12

**.50 CTE or elective credit**

**Fee: \$10.00**

This course is an introductory course for those who want to pursue a career in law enforcement. This course, taught by our school officer, includes court room and trial procedures, important court cases, rights of the accused, and problems relating to law enforcement. There will also be a field trip to the jail and the prison each semester. **This class is for Seniors only and is limited to 40 students.**

### **INTERNSHIP EXPERIENCE (650171)**

**Semester** 11, 12

This course is designed to give students valuable work-place experience in a career of his/her choice. Students will be placed in a business setting where they will receive on-the-job mentoring. Interns spend 60 hours at the work-site and 16 hours in the classroom. Students will receive classroom instruction on work-place expectations, resume writing, applications, interviewing, harassment, labor and safety laws, interpersonal communication, and creating a portfolio. Internship class takes place during the 4<sup>th</sup> Period block. Students must provide their own transportation to their work-site. **An application and screening process is required for this course.** Applications are available in Mrs. Manning's office in the Career Center.

### **INTRO/BEGINNING AUTO MECHANICS (627021)**

**Semester** 10, 11, 12 .50 CTE or elective credit

**Fee: \$25.00 per semester**

Introduction to automotive. Learn to use and operate the same tools and equipment that today's master automotive technicians use. Explore, diagnose and repair various computer controlled systems. Repair and maintain the modern vehicles of today. Prepare for advanced professional certification, professional employment and further skill development.

### **GENERAL SERVICE TECHNICIAN 1 (AUTO MECH 2) (627100)**

**Year** 11, 12 1 CTE or elective credit

**Prerequisite:** Intro-Auto or conference with Mr. Nielsen (Rm 307)

**Fee: \$40.00 per year**

If you have a good solid knowledge of cars, their systems (brakes, suspension, engines, etc.), and hand tools this class is for you. This course builds upon basic automotive knowledge students have about cars. Over 60% of the work is in the shop repairing live vehicles such as students' personal vehicles, building shop project cars and other fun-filled projects. If you like motorized vehicles (cars, trucks, bikes) and want to learn more, then you should come register for this class. You WON'T be disappointed.

### **GENERAL SERVICE TECHNICIAN 2 (627140)**

**Year** 11, 12 2 Period class 2 CTE or elective credits

**Prerequisite:** General Service Technician 1 (Auto Mech. 2) or conference with Mr. Nielsen (Rm 307)

**Fee: \$45.00 per year**

This course is also offered as concurrent enrollment and allows students to continue their automotive experience or to build for the future in the automotive industry. This course also works well for those interested in technical/engineering programs for various colleges. Over 60% of class is in the shop repairing and maintaining motorized vehicles. The class will also dive into the racing/car show sides of the automotive field. If you like cars, trucks, and bikes, you need to enroll in Skyline's new and improved automotive program where "Attitude is Everything." See you there!!

### **WOODWORKING 1/Chest (625001)**

**Semester** 9, 10, 11, 12 .50 CTE or elective credit

**Project Fee: \$55.00 + depending on the costs of required projects and safety glasses.**

**Partial CTE Tuition Fee: \$5.00 per credit**

Designing, cutting, fitting, assembling, and finishing: these are some of the many activities you will do and skills you will learn when you take this class. This beginning woodworking class is the first in a series of woodworking courses in the Cabinetmaking/Furniture making career pathway. In this introductory course you will have the opportunity to build a personal, heirloom quality project plus a group manufactured project. You will learn life skills and career-related skills. This will definitely be one of the best classes on your schedule.

### **WOODWORKING 2 (Electric Guitar) (625011)**

**Semester** 9, 10, 11, 12 .50 CTE or elective credit

**Project Fee: \$160.00-Electric Guitar**

**Partial CTE Tuition Fee: \$5.00 per credit**

Designing, cutting, fitting, assembling, and finishing: these are some of the many activities you will do and skills you will learn when you take this class--with an emphasis on computer-controlled cutting. In this introductory course you will have the opportunity to build an electric guitar, plus a group manufactured project. You will learn life skills and career-related skills. This beginning woodworking class is the first in a series of woodworking courses in the Cabinetmaking/Furniture making career pathway. This will definitely be one of the best classes on your schedule.

### **FURNITURE DESIGN (625050)**

**Year** 10, 11, 12 1 CTE or elective credit

**Project Fee: minimum of \$50.00 depending on the project.**

**Partial CTE Tuition Fee: \$5.00 per credit**

Design and build a personal heirloom-quality piece of furniture or select a project from a list of pre-planned projects: cedar chest, entertainment center, long board, bed frame, grandfather clock, dresser/chest of drawers, etc. Learn how to safely use a variety of tools and machinery with accuracy and efficiency. Learn how to operate Computer controlled machinery. If you loved the woodworking class you are going to love this class even more. This is the second class in the Cabinetmaking/Furniture making career pathway.

### **WOODWORKING (Various project options) (625010)**

**Year** 9, 10, 11, 12 1 CTE or elective credit

**Project Fee: \$\$\$ Varies each semester depending on projects you select**

**Partial CTE Tuition Fee: \$5.00 per credit**

Designing, cutting, fitting, assembling, and finishing: these are some of the many activities you will do and skills you will learn when you take this class--with an emphasis on computer-controlled cutting. In this introductory course you will have the opportunity to build a number of select projects, plus a group manufactured project. You will learn life skills and career-related skills. This beginning woodworking class is the first in a series of woodworking courses in the Cabinetmaking/Furniture making career pathway. This will definitely be one of the best classes on your schedule.

# GRANITE TECHNICAL INSTITUTE CLASSES

(These classes are held off campus.)

## Career and Technical Education

### You Design Your Future!

**\*\*Many classes are CE classes. (Concurrent Enrollment College Course)**

**It is the student's responsibility to apply (\$40.00 non-refundable fee) to the Salt Lake Community College by AUGUST 31st.**

Students must also pay (to the college) a \$5.00 fee per credit hour (non-refundable).

### Off-Campus Classes

Taylorville H.S. 5225 S. Redwood Rd.

Granite Tech. Institute 2500 S. State Street

A signature and course number must be received from Mrs. Manning in the Career Center before you are officially enrolled. In order to register for any of the classes offered through the GTI, students must first have a 2.5 GPA & 2.5 CPA. If students do not meet the GPA & CPA they may work with their counselor.

### ACADEMY OF HOSPITALITY & TOURISM

*Year (2 period block) 11-12 grade \$25 fee per course required per semester*

The Academy of Hospitality & Tourism is a two-year program for juniors and seniors with career interests in the business of hospitality and tourism. The comprehensive curriculum includes business management, marketing, accounting, hospitality services, travel and tourism, desktop publishing, customer service, and business communication. Students take four semester classes each year for a two-year period. Familiarization tours & job shadows are taken to expose the students to possible careers in the industry. Possible familiarization tours include: Arches National Park, Goblin Valley State Park, Zion National Park, Dead Horse Point, Canyonlands National Park, Bryce Canyon National Park, The Grand America Hotel, Marriott, Intercontinental Hotels Group & many others. Students can earn up to 9 college credits in this two-year program. Additional Fees may be incurred for optional field trips offered to students.

#### **Fall 2017 Semester Courses:**

Management 1600: Management Essentials CE

Lodging & Recreation

#### **Spring 2018 Semester Courses:**

Business Communications I\*

Accounting I\*\* or Event Planning (depending on state availability)

#### **Fall 2018 Semester Courses:**

Marketing 1030: Introduction to Marketing CE

Hospitality & Tourism I

#### **Spring 2019 Semester Courses:**

Sports & Entertainment Marketing

PS 1304: Introduction to Client Care CE (Weber State)

\*English Credit \*\*Math Credit

### ACADEMY OF FINANCE

*Year (2 period block) 11-12 grade \$25 fee per course required per semester*

The Academy of Finance is a two-year program for juniors and seniors who are interested in a career in the business of financial services. The curriculum includes economics, accounting, financial planning and products, banking, and marketing. Students take four semester classes each year during their junior and senior years. Students can earn up to 21 college credits in this two-year program. **Note: Open to juniors and seniors for the 2017-2018 school year.**

Junior Academy 1A/2A Block:

#### **Fall 2017 Semester Courses:**

Accounting I CE\*

Finance 1050 CE\*\*\*

#### **Spring 2018 Semester Courses:**

Accounting II CE

Economics CE

#### **Fall 2018 Semester Courses:**

Marketing 1030: Introduction to Marketing CE

Customer Service CE

#### **Spring 2018 Semester Courses:**

Management 1600: Management Essentials CE

Business Communications I\*\*

Senior Academy 1B/2B Block: (Students in YEAR ONE get priority registration)

#### **Fall 2017 Semester Courses:**

Management 1600: Management Essentials CE  
Finance 1050 CE\*\*\*  
**Spring 2018 Semester Courses:**  
Business Communications I\*\*  
Economics CE 12/8/2016 4

## **AGRICULTURAL SCIENCE**

*Agriculture is the nation's largest employer, with more than 21 million people working in some phase of industry from growing food and fiber to selling it in the supermarkets. The mission of Agricultural Science and Technology Education is to prepare students for employment and/or continuing education opportunities in the field of agriculture. This is accomplished through technical instruction in the classroom, experiential education in the laboratory, the Supervised Agricultural Experience Program, and through leadership and personal development in FFA (Future Farmers of America-student organization).*

**Suggestion:** If you take the Bio-Ag class first, it will give you a good foundation for all Agriculture Science classes.

### **INTRO TO AQUACULTURE**

*Semester (2-period block) 10-12 grade \$20 Course fee required per semester*

This hands-on course gives students an overview of the aquaculture industry. Students spend the majority of class time applying the course's content in practical ways in the greenhouse. Through raising and taking care of fish and aquaponic systems, students gain marketable skills and content knowledge with respect to breeding, production, water maintenance and monitoring as well as management. Students also have opportunity to join and compete in FFA events. **This course may also be taken to fulfill a third science credit requirement.**

### **ANIMAL SCIENCE I**

*Semester (2 period block) 9 - 12 grade \$30 course fee required per semester*

Animal Science will provide students with the opportunity to explore the many aspects of the livestock industry. During this course, students will study breeds of dairy cattle, beef cattle, equine, sheep, swine, and poultry. Students will look at animal breeding and reproduction, housing facilities, proper management practices, and feeding and nutrition. Judging and showing of some of these livestock breeds will also be included. FFA involvement is recommended for all students enrolled in this course. **This course may also be taken to fulfill a third science credit requirement.**

### **ANIMAL SCIENCE II**

*Semester (2 period block) 10 - 12 grade*

**Prerequisite: Animal Science 1 or Equine Science** \$30 course fee required per semester

Students will develop knowledge and skills in a wide range of animal agriculture principles, including anatomy and physiology, health maintenance, waste disposal and facilities. The efficient production and effective management of selected animal enterprises are covered, including beef and dairy cattle, swine, sheep, goats, poultry and equine. Practices in veterinary medicine and those associated with small animal care are included.

FFA involvement is recommended for all students enrolled in this course.

### **BIOLOGY AGRICULTURAL SCIENCE (BioAg)**

*Semester (2 period block) 9-12 grades \$20 Course fee required per semester*

This hands-on introductory course is biology with an agriculture emphasis. Students explore such biology topics as cells, inheritance, evolution, and ecology by doing hands-on experiments in the context of agriculture. Students have opportunity to compete in FFA. This course leads to other agriculture courses such as aquaculture, as well as animal, plant, and vet sciences. **This course fulfills 1 core biology credit.**

### **FLORICULTURE AND GREENHOUSE MANAGEMENT**

*Semester (2 period block) 9 - 12 grade \$30 Course fee required per semester*

This intensive course in greenhouse operation and management prepares students to produce commercial plant species in a controlled environment and to manage commercial and experimental greenhouse operations. Studies will also include: basic plant biological systems, soil science, plant propagation, and floral design. The GTI and USU horticulture students share the greenhouse used for this course.

**This course may also be taken to fulfill a third science credit requirement.**

### **EQUINE SCIENCE 1 & 2**

*Semester (2 period block) 9-12 grades \$30 Course fee required per semester*

This course prepares students to care for horses and horse equipment; to train horses for various work and athletic or entertainment roles; and to manage horse training, breeding, and housing programs and facilities.

**This course may also be taken to fulfill a third science credit requirement.**

### **INTRO TO HORTICULTURE**

*Semester (2 period block) 11-12 grades CE \*\* (PURE) \$30 Course fee required per semester*

This course is an introduction to the production of nursery, greenhouse, fruit, and vegetable crops. Residential and commercial landscape construction and management will be explored, and students will learn about interior plants, arboriculture, turf science, landscape plant materials, and home gardening. This class is one of the first requirements for the USU Horticulture Major and also

fulfills a Breadth Life Science requirement at USU. The GTI and USU horticulture students share the greenhouse used for this course. Students who major in Horticulture at USU can complete their entire program here at the GTI Campus with USU's extension campus on the 5th floor. Utah State concurrent enrollment credit PSC 1800-3 credits).

## **LANDSCAPE MANAGEMENT/ NURSERY OPERATION**

*Semester (2 period block) 9-12 grade \$30 **Course fee required per semester***

Students will develop knowledge and skills in nursery operation and landscape management practices that will prepare the students to select appropriate plant materials and to design, install, and maintain interior and exterior plantings and hardscapes. They will also learn to maintain the facilities and equipment associated with this industry.

## **NATURAL RESOURCE SCIENCE I**

*Semester (2 period block) 9-12 grade \$10 **Course fee required per semester***

This introductory course is designed to give students knowledge and skills related to production, management, and conservation of natural resources. Students explore such topics as ecology, range resources, waste management, and land use. Students will also be introduced to various careers in Natural Resource Science such as fish and game officer, water technician, and park manager. Hands-on field experience is emphasized at weekly trips to Wheeler Farm and other sites. **This course may also be taken to fulfill a third Science credit requirement.**

## **NATURAL RESOURCE SCIENCE II**

*Semester (2 period block) 9-12 grade*

**Prerequisite: Natural Resource Science I \$10 Course fee required per semester**

This course builds upon knowledge and skills gained in Natural Resource Science I. In addition, it covers such topics as the biological, environmental, and economical importance of renewable natural resources, and forest and range products. Students will also be introduced to various careers in Natural Resource Science such as fish hatchery manager, wildlife officer, hunting outfitter/guide. Hands-on field experience is emphasized at weekly trips to Wheeler Farm and other sites. **This course may also be taken to fulfill a third Science credit requirement.**

## **VETERINARY ASSISTANT 1**

*Semester (2 period block) 10 - 12 grade*

**Prerequisite (one of the following): Animal Science I or Equine Science \$30 Course fee required per semester**

This course is designed to encourage students to pursue a career in large animal veterinary practice. The program will focus on the following areas of study: safety and sanitation in veterinary science, veterinary terminology, anatomy and physiology, clinical examinations, hospital procedures, parasitology, Course oratory techniques, animal nutrition, principles of disease, animals in society, career exploration, and animal management. Students enrolled in this program will also have leadership opportunities through the FFA, a component that will be integrated into the vet assistant course. This course provides entry-level skills for those students who want to enter an occupation right out of high school and also provides the background necessary for students interested in pursuing a professional degree. Course oratory activities provide students with the hands-on experience and skills needed to participate in the exciting field of veterinary medicine. **This course may also be taken to fulfill a third science credit requirement.**

## **AVIATION**

### **PROFESSIONAL PILOT PROGRAM**

**In cooperation with Salt Lake Community College, high school students may enroll in the Aviation courses listed below and receive concurrent enrollment credit from SLCC. Exceptions to this format must be arranged through the G.T.I. administration.**

CE \*\* Concurrent Enrollment College Course

#### **1st Semester classes**

##### **PRIVATE PILOT GROUND SCHOOL CE \*\* (PURE)**

*Semester (2 period block) 11-12 grade (must be 17 by the end of the semester) \$40 **Course fee required per semester***

This course focuses on the study of aviation fundamentals, principals of flight, aircraft and engine operations, weather, navigation, and radio communications as required by FAA regulations. Students will be prepared to begin flight training. This course must be taken for SLCC concurrent enrollment credit PILT 1100, 4.0 credits.

##### **PRIVATE FIXED WING SIMULATOR LAB CE \*\* (PURE)**

Practical application in a simulation lab to include the information for private pilot flight maneuvers, procedures, and regulations for takeoff, cruise, traffic pattern operations, approach, emergencies, and cross-country operations. Time in the Simulator is based on size of the class. Taken *(Taught in conjunction with Private Pilot Ground School)*

concurrently with Private Pilot Ground School. This course must be taken from SLCC concurrent enrollment credit PILT 1110, 1.0 credits.

##### **AIRCRAFT SYSTEMS CE \*\* (PURE)**

*Semester (2 period block) 11-12 grade \$20 **Course fee required per semester***

This is an introductory course that provides pilots with an understanding of aircraft systems, components, and basic operations general to all aircraft. Included will be information about power plants, fuel, and electrical systems. This course must be taken for SLCC concurrent enrollment credit PILT 1420, 3.0 credits.

## **2nd Semester classes**

### **AIR TRANSPORTATION CE \*\* (PURE)**

introduce students to the development of aviation from earliest beginnings to modern day. Students will understand the relevance of significant aviation events, contributions from specific individuals, aircraft development, deregulation, This course will *Semester (2 period block) 11–12 grade* administrative bodies and commercial companies. This course must be taken for SLCC concurrent enrollment credit PILT 1010, 3.0 credits, for qualified 11th and 12th grade students.

### **AVIATION HISTORY**

*Semester (2 period block) 10–12 grade (Suggestion, Sophomores start with this class)*

The history of aviation from the earliest times through the modern jet age will be explored. Students will discover significant aviation developments and how they came about. This course must be taken for SLCC concurrent enrollment credit PILT 1050, 2.0 credits, for qualified 10th-12th grade students.

## **BIOTECHNOLOGY/BIOMANUFACTURING**

CE \*\* Concurrent Enrollment College Course

### **BIOTECH RESEARCH CE \*\* (PURE)**

*Year (2 period block) 11–12 grades \$20 Course fee required per semester*

This hands-on introductory course provides opportunity for students to explore the exciting emerging world of biotechnology. It provides a solid foundation for students who wish to pursue careers in fields such as bioengineering, biotechnology, and biological science among others. Developing marketable, hands-on lab skills is the course's primary objective. This objective is met as students work at the lab bench on such topics as DNA structure, gene expression, protein synthesis, recombinant DNA strategies, DNA testing, DNA sequencing, forensics, and bioethics. This course must be taken for SLCC concurrent enrollment credit BTEC1010, 3.0 credits, & BTEC 1015, 1.0 credit for qualified 11th and 12th grade students. **This course may be taken to fulfill a third science credit requirement.**

### **BIOMANUFACTURING 1 & 2**

*Year (2 period block) 10–12 grades \$20 Course fee required per semester*

This course offers a project-based introduction in areas such as nutritional supplements, cosmetics and biofuels. Projects include designing and producing nutritional supplements, biofuels, and novel raw ingredients and will include label verification and product presentation (marketing). Students will learn how to ensure and understand safety requirements in the medical, pharmaceutical, and dietary supplement industries. Industry facilities for biomanufacturing companies will be visited to explore possible career paths. The course will also cover the science, engineering and marketing skills necessary in biomanufacturing, as well as legal, social and ethical issues surrounding these industries. Students will have the unique opportunity of working in the same cutting edge lab and using the same equipment as college students and professionals. **This course may be taken for CTE credit or to fulfill a third science credit requirement.**

### **CONSTRUCTION TRADES**

This is a comprehensive construction experience where students, under the supervision of experienced, licensed contractors, help construct an entire house while participating in all phases of home construction or participate in a variety of commercial construction projects. Students may specialize in residential carpentry, commercial carpentry, electrical, or plumbing, with the ability to participate in all of these trades. This is an excellent experience for those interested in construction related careers, including construction management, or for those who want building and remodeling experience. Apprenticeship programs are available. **Transportation is provided to the construction site.**

### **ELECTRICAL TRADES CE \*\***

*Year (2 period block) 10–12 grades*

This is a comprehensive electrical experience where students are under the supervision of an experienced and licensed electrical contractor. Students will be engaged in the wiring of a home, which includes: the rough and finish wiring, electrical service, and all phone and data. Students will also experience many commercial projects around the district where they will learn conduit bending and the differences between residential and commercial wiring. In addition to hands-on projects, students will also learn the National Electrical Code and Electrical Theory. This class provides great experience for those interested in electricity and those who may want to be part of basic electrical installations and remodeling. Apprenticeship programs are available. This course may be taken for SLCC concurrent enrollment credit ELI 1110, 5.0 credits, for qualified 11th and 12th grade students.

### **HOME BUILDING (RESIDENTIAL CARPENTRY) CE \*\***

*Year (2 period block) 11–12 grades*

This is both an introductory and second year class that is designed to provide the student with a solid base of understanding and experience in the carpentry trade. Students will be exposed to this trade by constructing a residential home off site (bussing provided). This course will involve students with hands-on and learning activities in the building process from digging the foundation to shingling the roof. Other opportunities include: plan reading, concrete work, all phases of framing, insulation, drywall, electrical, plumbing, hanging doors & windows, interior doors and trim work, exterior finishes, painting. Construction Management is addressed and the class is also offered as a Salt Lake Community Concurrent class for sophomores, juniors & seniors. This class is fun and will provide valuable training and experience that can be used in a career or for personal remodeling or construction projects. This course may be taken for SLCC concurrent enrollment credit CMGT1320, 4.0 credits and CMGT 1330, 4.0 credits, CMGT 1410, 2.0 credits for qualified 11th and 12th grade students.

## **PLUMBING CE \*\***

*Year (2 period block) 10–12 grades*

This is a comprehensive construction experience where students, under the supervision of an experienced licensed contractor, participate in a variety of commercial construction projects. Students may specialize in plumbing with the opportunity to participate in all trades. This is an excellent experience for those interested in construction-related careers, including construction management, or for those who want building and remodeling experience. Apprenticeship programs are available. This course may be taken for SLCC concurrent enrollment credit PLI 1110, 5.0 credits for qualified 11th and 12th grade students.

## **CONSTRUCTION TRADES FOUNDATION 1**

*Semester (2 period block) 9-12 grades*

Construction Trades Foundation1 is designed to introduce students to the basic skills needed for an entry-level position in the construction field. Students will be exposed to basic safety, which complies with OSHA-10 training. Students will work with construction math. They will be adding, subtracting, dividing, and multiplying whole numbers, fractions, and decimals, and explain their application to the construction trades. Students will learn about the safe use of hand and power tools used in the industry and will be familiarized with reading, interpreting, and applying construction drawings. Students will be taught about basic rigging. They will also be introduced to material handling and recognizing hazards associated with the construction industry. The communication skills needed for job interviews and working with co-workers and supervisors will be emphasized. This class will be a great experience for those interested in the construction industry.

## **CONSTRUCTION TRADES FOUNDATION 2**

*Semester (2 period block) 9-12 grades*

Construction Trades Foundation 2 provides students with the opportunity to explore many areas of the construction industry. Licensed contractors teach this class, and students will be able to work through learning modules at their own pace and in several areas. Students will be exposed to site lay out and distance measurements; concrete and masonry; floor systems; wall, ceiling, and roof framing; and roofing applications. They will be taught basic stair layout and exterior finish and will learn about electrical safety and residential electrical installation. Students will also be introduced to drain, waste and vent systems using plastic and copper pipe and fittings for residential construction. This is an excellent class for those who want to learn about the construction industry.

## **CULINARY ARTS**

***It's no secret that the restaurant and food service industry is growing. In fact, it is estimated that from 2012 to 2020 the number of jobs in the restaurant and food service industry is projected to increase by 21 million, of which approximately 50,000 will be management positions!***

## **CULINARY MANAGEMENT I**

*Semester (2 period block) 11-12 grade \$25 Course fee required per semester*

***Prerequisites: Food and Nutrition 1 & 2***

***Requirement: Students must hold a current food handler's permit.***

This is an advanced course in restaurant management and food service. This course focuses on preparing students for Careers in the restaurant management and food service industry. Students will learn and practice hands on skills dealing with safety, sanitation, customer relations, food preparation, menu planning, cost controls, marketing, and communication. Students will also be required to develop a professional portfolio related to food services. A "Certificate of Achievement" from the National Restaurant Association is available upon completion of this program and verified documentation of required externship hours with a mentor in the food service industry. Students must have a social security number to qualify for the National Certificate.

## **CULINARY MANAGEMENT 2**

*Semester (2 period block) 11-12 grade \$25 Course fee required per semester*

***Prerequisites: Culinary Management 1***

***Requirement: Students must hold a current food handler's permit.***

This class is a continued advanced course in restaurant management and food service. This course focuses on preparing students for Careers in the restaurant management and food service industry. Students will learn and practice hands on skills dealing with safety, sanitation, customer relations, food preparation, menu planning, cost controls, marketing, and communication. Students will also be required to develop a professional portfolio related to food services. A "Certificate of Achievement" from the National Restaurant Association is available upon completion of this class, Culinary Management 1, and verified documentation of required



externship hours with a mentor in the food service industry. Students must have a social security number to qualify for the National Certificate. 12/8/2016 9

## **CULINARY ARTS**

*Semester (2 period block) 10-12 grade \$25 Course fee required per semester*

**Prerequisites: Food and Nutrition 1 & 2**

Students will be trained for career opportunities in the food service/culinary arts industry. Students will have the opportunity to learn and practice safety and sanitation procedures and to use and maintain commercial food service equipment. They will perform quantity food preparation as it relates to catering, bakery, restaurant, hospitality, and fast food business operations.

## **HEALTH SCIENCE TECHNOLOGY**

CE \*\* Concurrent Enrollment College Course

**Our Health and Medical Programs are some of our most popular as students recognize that there is a high demand for skilled health care professionals. Students can graduate from high school as a Nursing Assistant, Medical Assistant, EMT, or Pharmacist Technician and make \$9-\$14 an hour and be better prepared for nursing school, medical school, pharmacy school or any other medical profession.**

## **CERTIFIED NURSE ASSISTING**

*Semester (2 period block) 11-12 grade*

**Requirement: You must be 16 yrs. old when you begin the course. \$30 Course fee required per semester**

**It is recommended that students take Medical Terminology prior to taking this course.**

This program prepares students to perform routine nursing-related services to patients in hospitals or long-term care facilities under the training and supervision of a registered nurse or licensed practical nurse. Students learn basic nursing skills such as taking and recording vital signs and recognizing abnormal changes in body functioning. Basic areas of study include: basic nursing skills, personal care skills, mental health and social service needs, care of cognitively impaired residents, basic restorative services and resident rights. A 46-hour clinical experience is required in a nursing facility to complete course requirements. Clinical is from 3:00 – 8:00 p.m. one day per week and two Saturdays from 6:00 a.m.– 2:00 p.m. Students must supply their own uniforms; watches with sweep second hands, pens, and small notebooks. An additional .25 credit will be earned by completing clinical hours. Students must have good social skills, good attendance, and the ability to get themselves to their clinical experiences. Some college and university nursing programs require a CNA for admission to their program. **Students must provide a social security or IRS number in order to take the state C.N.A. exam.** State certification exam is \$75.

## **DENTAL ASSISTING I**

*Semester (2 period block) 11-12 grades \$40 Course fee required per semester*

Dental Assisting, I introduces students to the field of dental assisting. Students will learn basic patient care skills in preparation to assist a dentist or dental hygienist in functions of a dental practice. Skills include: infection control procedures, instrument sterilization, patient preparation, examination, preventive care, and coronal polishing procedures.

## **DENTAL ASSISTING II**

*Semester (2 period block) 11-12 grades (12TH grade preference) \$40 Course fee required per semester*

**Prerequisite: Completion of Dental Assisting I**

Dental Assisting II offers students the opportunity to practice skills, introduction to dental materials and restorative procedures, cosmetic and surgical procedures, dental radiographic techniques, diagnostic study models and laboratory skills. Qualified students will have the opportunity to participate in a 90-hour externship at a dental office of their choice.

## **EMR (Emergency Medical Responder) CE \*\***

*Semester 9-12 grades \$40 Course fee required per semester*

*Taken with Intro to Health Science & Technology = 2 period block*

This semester course provides students with advanced emergency medical information and skills. The course introduces students to a variety of career options in emergency medicine along with preparing students to take nationally recognized tests and certification in Advanced First Aid, CPR and Emergency Medical Response. Students will learn basic skills prior to enrolling in EMT, nursing assisting, medical assisting and dental assisting courses. This course offers Weber State University concurrent enrollment credit AT 2300, 3.0 credits for qualified 11th and 12th grade.

## **EMT (Emergency Medical Technician) CE \*\***

*Year (2 period block) 12-grade \$40 Course Fee Required Per Semester*

This program prepares students to perform initial medical assessment, treatment, and comprehensive care in medical crises, under the general supervision of a coordinating physician. Instruction includes all aspects of basic health care, disease and disorder recognition, injury diagnosis, and emergency treatment procedures for various injuries and disease outbreaks. Students learn theory and then participate in extensive skill practice sessions with EMTs. Students will be registered with the Utah Bureau of Emergency Medical Services to become a Certified EMT. Students must have a social security number for state certification, which costs \$80. Students will take the National Registry of EMT exam at the end of the course, which will cost \$70 payable prior to testing. Required course items for certification include: textbook for Concurrent Enrollment - \$75, stethoscope and blood pressure cuff - \$50, and bandaging supplies - \$20. This course offers Weber State University concurrent enrollment credit PAR 1000 & PAR 1001, 6.0 credit hours. **Students must provide a social security number in order to take the state Emergency Medical Technician exam.**

## **EXERCISE SCIENCE/SPORTS MEDICINE CE \*\***

*Semester (2 period block) 11-12 grade \$35 Course fee required per semester*

This course is designed to teach students components of Exercise Science and Sports Medicine by exploring topics such as anatomy/physiology, medical terminology, injury evaluation, nutrition, rehabilitation, and sports psychology. The course also includes many taping procedure labs and other hands-on activities. Extracurricular opportunities such as Future Doctors and job shadowing externships, allow students to further investigate areas of medicine. This course offers concurrent enrollment through Utah Valley University, Pes 2400, 2.0 credit hours.

## **INTRO TO HEALTH SCIENCE & TECHNOLOGY**

*Semester 9-12 grades*

*(Taken with EMR = 2 period block)*

This semester course is designed to create an awareness of career possibilities in health care and inform students of the educational options available for health science and health technology programs. Instruction includes beginning anatomy and physiology, medical terminology, medical ethics, diseases and disorders.

## **MEDICAL ASSISTING**

*Year (2 period block) 12-grade \$40 Course fee required per semester*

**Prerequisite: Medical Terminology; Instructor strongly recommends Medical Anatomy & Physiology**

When all requirements are met, this program prepares students to assist practitioners in the front office and clinical setting of a medical office. The rigorous curriculum covers: administrative areas such as bookkeeping, insurance matters, and general office management; and clinical duties such as assisting with physical exams, screenings, treatments and completing duties in the medical office laboratory. A 160-hour externship is required for completion of certificate. Students must have good social skills, excellent attendance, a desire to serve their community, and the willingness to learn. An application is required for this program, and lists specific expectations.

## **MEDICAL ANATOMY & PHYSIOLOGY CE \*\***

*Year (2 period block) 11-12 grades \$15 Course fee required per semester*

Create models of human systems. Explore through dissections and hands-on activities. Investigate how the human body changes with diseases and disorders. This course provides an exciting in-depth experience of the human body that includes medical terminology and medical ethics. Discover your future as a health care professional through job shadowing and service learning experiences. Prepare for success in a variety of health technology programs. **This course may also be taken to fulfill a third Science credit requirement.** Students are required to be concurrently enrolled through SLCC HIT 1040, 3 credits.

## **MEDICAL FORENSICS**

*Semester (2 period block) 11-12 grades \$30 Course fee required per semester*

This course is designed to create an awareness of the branch of health science relating to medical forensics and working in a medical laboratory.

Students will learn to identify, analyze, and process logically using deductive reasoning and problem solving. It focuses on introductory skills necessary to prepare students for the crime scene or crime lab investigation and medical lab work.

## **MEDICAL TERMINOLOGY CE \*\***

*Semester (2 period block) 9-12 grades \$20 Course fee required per semester*

Students must be able to read at or near grade level. This class consists of lecture and video presentations. Students learn the meanings and pronunciations of prefixes, roots, and suffixes that combine to form over 11,000 medical terms. This is essential knowledge for any health career. The other Medical Terminology sections will be high school credit only. This concurrent credit is required for SLCC's Medical Assisting, Surgical Tech, and Pharmacy Tech programs. If students are NOT planning on those programs at SLCC, there is NO NEED for them to take it for SLCC Concurrent Credit, as the class credit does not transfer to other institutions or programs. Medical Terminology is a prerequisite for Medical Assisting and Pharmacy Technician at the GTI and recommended for Certified Nurse Assisting, as well as for any ELL students who are planning on taking medical training courses. *This course offers SLCC concurrent enrollment credit MA 1100, 3 credits.*

## **PHARMACY TECHNICIAN**

*Year (2 period block) 12th grade*

**Prerequisite: Medical Terminology \$40 Course fee required Per Semester**

This program prepares students to support pharmacists by providing assistance during patient consultation, counter dispensing operations, and prescription preparation. Students will also be trained to keep patient and related health record information and to perform a wide range of practice-related duties for both retail and hospital-based pharmacies. Students must have good social skills, good attendance, and the ability to get themselves to their externship experiences. Students must have a social security number to qualify to take the licensure exam. The cost for exams are, National Exam PTCB \$129 or ExCPT \$105 (students need only do ONE test). State Licensure Fee \$99. **Students must maintain a "B" average and complete a 180-hour externship in addition to course work for successful licensure with the state of Utah. Students must provide a social security number in order to take the national exam and become licensed in the state of Utah.**

## **PHYSICAL THERAPY**

*Semester (2 period block) 11-12 grades \$35 Course fee required Per Semester*

This course introduces students to the field of physical therapy through the history, medical terminology, documentation, therapy treatments, and pertinent legal and ethical considerations of the profession. Healthcare for diverse population begins its thread in this course. Students will participate in clinical observations.

## **INFORMATION TECHNOLOGY**

*Information technology programs include the study, design, development, implementation, support and/or management of computer hardware, software applications, multimedia, computer-based information systems, and integration services. Information technology coursework is divided into four specialty strands. These include: Information Support & Services, Interactive Media, Network Systems, Programming and Software Development. Students may choose to take a sequence of courses in one specialization strand or they may take courses across each strand to gain a broader understanding of the information technology industry.*

### **COMPUTER PROGRAMMING 1**

*Semester Class (2 period block) 9-12 grade \$10 Course fee required per semester*

This semester course is an introduction to computer programming using C#. Students will learn problem solving and object-oriented programming as they design code and test your own programs. Students will learn C# syntax, graphical user interface (GUI) and simple control and data structures. Students will produce a graphical game as their final project.

### **COMPUTER PROGRAMMING 2/MOBILE APPS**

*Semester (2 period block) 10-12 grade*

**Prerequisite: Computer Programming 1 \$20 Course fee required per semester**

This course is designed to learn the JAVA programming language. It is a suitable class for advanced computer programmers who plan to further their information technology education in preparation for college and the workforce. In addition, this course is designed to take programming concepts and implement them into mobile device technology. Emphasis will be on completing individual and team based projects that demonstrate a student's ability to grasp new cell phone technology. Students will build customized user interactive text message, GPS map location, voice recorder, and game mobile applications.

### **COMPUTER PROGRAMMING PROJECTS**

*Semester Class (2 period block) 11-12 grade*

**Prerequisite: Computer Programming 1 \$15 Course fee required per semester**

This is an advanced computer course for students who have completed Computer Programming 1 or Advanced Web Development. Students will use and develop code for **C#, SQL, PHP and JAVA script**. This opportunity is for students to build a **WEB server**, use a **relational database with SQL** and program **Arduino microcontroller** projects. Note that this course is designed to strengthen their experience using current programming skills and to help students acquire marketable skills for **all professional work forces**. **This course may also be taken to fulfill the 3rd math credit requirement.**

### **INTRODUCTION WEB DEVELOPMENT**

*Semester Class (2 period block) 9-12 grade \$10 Course fee required per semester*

This course is designed for students who desire an introduction to web development pages using HTML, XHTML, Dynamic HTML, tables, frames, input forms and cascading style sheets. Prior web development is not a requirement for this course. Students will build their own personal websites and maintain their on-going structure and design changes.

### **ADVANCED WEB DEVELOPMENT**

*Semester Class (2 period block) 9-12 grade*

**Prerequisite: Introduction Web Development \$10 Course fee required per semester**

This course is designed to take fundamental concepts and technologies used in web development such as XML, XHTML and create more sophisticated web sites. Focus will be on completing team web-based projects that incorporate multimedia, JavaScript and Java Applets. Student will analyze different web designs and use more complex web tools that may include other technologies and mobile devices. Students in this class will maintain a real world website and be responsible for providing new content and functionality.

### **INTRO TO 3D ANIMATION**

*Semester Class (2 period block) 10-12 grade \$15 Course fee required per semester*

This semester course offers an entry-level study of the basic principles of 3D and 2D animation. Subject matter includes: 2D animation, timing, secondary motion, stretch & squash, basic 3D modeling, texturing, lighting, UV mapping, rigging and animating a model. This course emphasizes artistic principles for those students interested in the 3D Industry. Students will learn basic principles such as layout and design, color theory, and basic drawing skills. In addition, animation planning, storyboard development, and the production process will be a large part of the course.

### **ADVANCED 3D ANIMATION**

*Semester Class (2 period block) 10-12 grade*

**Prerequisite: Intro to 3D Animation \$15 Course fee required per semester**

This semester course offers an advanced level study of the principles of 3D and 2D animation. This course is designed to prepare students for entry into an internship or a college course with the skills necessary to succeed in industry. Subject matter includes: advanced polygonal modeling, nurbs modeling, advanced techniques for both game and movie industries, advanced lighting and texture, dynamics, environmental construction, advanced character rigging and animation. This course expounds on the *instructional* principles taught during the Intro to Animation class, but gives more time for student projects and critique. Students will

continue to apply the art principles learned during the intro class, and the principles will be critiqued and applied in their final projects. Students will have the opportunity to work with Utah Valley University and Salt Lake Community College and interface and work with college professors to seamlessly transition into college and their desired field of study.

## **GAMING DEVELOPMENT FUNDAMENTALS**

*Semester (2 period block) 9-12 grade \$15 Course fee required per semester*

This course is designed to provide students with knowledge and project based experience of fundamental gaming development concepts relating to STEM. These concepts include game design, scripting, creation of digital assets, graphic resources animations, understanding hardware, problem solving, critical thinking, collaboration, and project management.

## **DIGITAL MEDIA II (Projects class)**

*Semester (2 period block) 11-12 grade*

**Prerequisite: Advanced 3D Animation \$15 Course fee required per semester**

This semester course offers seniors an opportunity to create and complete a portfolio necessary for internships, college programs and the job application process. Students will have the opportunity to work with real world situations, producing products for both the school district and local businesses, helping to give substance to their portfolios. Students will be critiqued every two weeks to measure their progress, quality of work, and to receive direction as to the overall layout, design and professionalism of the end product. This class is designed after a senior level college studio class to prepare students for what they will encounter in college. In addition, this course will help students complete all necessary paperwork for entrance into college or an internship program. *Students wishing to take this course must make individual arrangements with the instructor.*

## **COMPUTER MAINTENANCE (A+) CERTIFICATION**

*Semester (2 period block) 10-12 grade \$15 Course fee required per semester*

In this course, students practice troubleshooting, maintenance, and upgrade of PCs. Course content covers setup, memory management, data back-up, and hardware/software diagnostic procedures. The course is designed to prepare students for the Comp TIA A+ certification exam. A+ certification is a testing program that certifies the competency of entry-level (9 month's experience) service technicians in the computer industry. Earning A+ certification means that the individual possesses the knowledge, skills, and customer relation skills essential for a successful entry-level computer service technician as defined by experts from companies across the industry.

## **LINUX FUNDAMENTALS**

*Semester (2 period block) 10-12 grade \$15 Course fee required per semester*

This semester course introduces students to the SLES11 Linux operating system. Students will learn initial concepts, installation, administration, system management, and X-window system, TCP/IP, SAMBA for both workstations and servers. This course also prepares the student for the CompTIA Linux+ certification exam.

## **NETWORKING (NETWORK +)/CISCO NETWORKING (CCENT CERTIFICATION)**

*Semester (2 period block) 10-12 grade \$15 Course fee required per semester*

This course focuses on basic networking terms and concepts, the OSI model, transmission media, and protocols used by various vendors in LAN and WAN network implementation. This course is designed to prepare students for the CompTIA Network+ certification exam and is equivalent to 6 months of full time experience working with Peer-to-Peer and Server Client networks. Also, students will be introduced to CCENT (Beginning Cisco Certification). Students will learn to describe the operation of data networks, implement small switched networks, implement an IP addressing scheme and IP services to meet network requirements for a small branch office, implement small routed networks, explain and select administrative tasks requires for a WLAN, identify security threats to a network and describe ways to mitigate those threats, and implement WAN links.

## **SECURITY +**

*Semester (2 period block) 9-12 grade \$15 Course fee required per semester*

This course will prepare you to successfully pass the CompTIA Security+ Exam SYO-401. CompTIA Security Certification covers network security, compliance and operational security. Also, included is... access control, identity management, and cryptography. **This course may also be taken to fulfill a third science credit.**

## **SKILLED & TECHNICAL**

### **COMMERCIAL DRIVER'S LICENSE PROGRAM (CDL)**

*2ND Semester, 12 grade only*

*Students **must** already have a regular driver's license, they will also be required to have a physical, a drug test and DOT Test*

Class includes: General trucking knowledge, driving safety, transporting cargo and pre-trip inspection. Students must master these basic skills: vehicle control, judging positions, ability to back the vehicle in various scenarios, Road skills. Students will be immediately eligible for employment upon successfully completing the CDL course and obtaining a license. Classroom and Vehicle instruction provided by Jack B. Parson Companies. State of Utah charges a \$40.00 fee to obtain a CDL from Department of Public Safety.

### **CRIMINAL JUSTICE**

**The Criminal Justice course is designed to prepare students for an exciting career in the Field of Law or Law Enforcement. Students will learn about many diverse job opportunities that are available such as Patrol Officer, Swat Team member, Detective, k-9 Officer and other disciplines such as careers in Federal Agencies such as FBI, Secret Service and ATF.**

Students will have the opportunity to meet professionals in the field and participate in simulated scenarios, demonstrations and tour pertinent Law Enforcement sites.

## **INTRO TO CRIMINAL JUSTICE**

*Semester 11-12 grade*

**(Taken with Intro to Corrections = 2 period block) \$40 Course fee required per semester**

Students will gain an understanding of Criminal Law and punishments, the constitution, individual rights and general principals of criminal liability. They will also learn about crimes against persons and crimes against property. The students will also participate in various debates involving our current laws and regulations. CTE credit or Elective credit: up to 2 credits total. *This course offers SLCC concurrent enrollment credit CJ1010, students is responsible to register and pay for concurrent enrollment classes at SLCC.*

## **INTRO TO CORRECTIONS - CE \*\***

This course examines the history, function and administration of corrections in our criminal justice system. *This course offers SLCC concurrent enrollment credit CJ1300, 3 credits.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

## **CRIMINAL LAW - CE \*\***

*Semester 11-12 grade*

**(Taken with Career in Law Enforcement = 2 period block) \$40 Course fee required per semester**

The students will become familiar with all the various careers in Law Enforcement. They will learn the steps involved to become a Police Officer or a Federal Officer. They will participate in an Oral Board interview and the Police physical fitness test. They will be given instruction on officer safety issues and will also learn how to build a professional resume. *This course offers SLCC concurrent enrollment credit CJ1330.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

## **CAREER IN LAW ENFORCEMENT CE \*\***

This course provides an insight into the workings and hiring practices of various law enforcement agencies such as ATF, DEA, FBI and local county, and state police agencies. *This course offers SLCC concurrent enrollment credit CJ2540, 3 credits.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

## **FIRE SCIENCE - CE \*\***

*Semester 11-12 grade*

**REQUIREMENT:** Due to some strenuous physical activities, the student must pass a physical entrance test and must obtain a physician's approval based on such requirements.

This is a program that prepares individuals to perform the duties of a firefighter. Instruction includes training in safety, firefighting, equipment operation, maintenance, and the principles of the fire science. Introduces the basic principles and history related to the national firefighter life safety life safety initiatives. Focusses on the need for cultural and behavior change throughout the emergency services. This high school based firefight development course is derived from Utah State Fire Fighter Standards, NFPA, IFSAC, current United Fire Authority standards and the experience of an instructor cadre from multiple jurisdictions. This course offers concurrent through Utah Valley University, ESFF 1000 3.0 & ESFF 1120 3.0 credit hours. Student is responsible to register and pay for concurrent enrollment classes at UVU.

## **TECHNOLOGY & ENGINEERING**

*The engineering technology program is a hands-on, project-based approach to learning that better prepares students for entrance into college engineering and/or engineering technology programs. Coursework uses real-world problem solving that answers the age-old student question, "Why do I need to know this?" There are five courses in the Engineering Technology Sequence. Course content is designed to help students explore how engineers and engineering technicians integrate math, science, and communications skills into their profession. Engineering Technology students will engage in the research, design, and construction of models/prototypes in a variety of areas including: electrical, fluid, structural, and mechanical systems.*

## **ARCHITECTURAL DESIGN 1 & 2**

*Semester (2 period block) 10-12 grade \$10 Course fee required per semester*

If architecture, building construction, interior design, or civil engineering is your interest then this is the class for you. In this class you will learn the process of residential and commercial building design. Students will learn design and construction practices common to architecture. Students will gain knowledge in uniform building codes, blueprint reading, and architectural history. A focus will be placed on sketching, 2D and 3D CAD (Computer Aided Design) drawing. Students will practice using AutoCad and Revit, which are the most commonly used design software packages used in the industry.

## **ENGINEER/ TECHNICAL DESIGN 1 & 2**

*Semester (2 period block) 9-12 grade \$15 Course fee required per semester*

This exploratory class will introduce students to the process of engineering design. Students will focus on the language of engineering, which includes sketching, technical drawing, orthographic projection, geometry, dimensioning standards and drawing presentations used by industry. Students will be instructed on 2D and 3D CAD (**Computer Aided Design**). Students will practice with the latest CAD software used in the field including **AutoCAD**, **Solid Works** and **Revit** as they complete hands on projects.

## **ENGINEERING PRINCIPLES 1 & 2**

*Semester (2 period block) 9-12 grade \$15 Course fee required per semester*

In this course students will be introduced to 7 different engineering disciplines. Students will apply basic math and science principles used in engineering. By applying problem-solving skills in hands on activities, students explore what different engineers do. After this class, students will be able to choose the right classes and opportunities to pursue the engineering discipline of their choice. **This course may also be taken to fulfill a third science credit.**

### **ENGINEERING CAPSTONE (Projects class)**

*Semester (2 period block) 11-12 grade \$15 Course fee required per semester*

**Prerequisite: Robotics and Automation**

Students will develop product using the engineering design process. The course will require the use of 3D computer aided design (CAD) software, 3D prototype, model machinery (3D printer), and other shop equipment to design, prototype, and test their product. **This course may also be taken to fulfill a third science credit.** *Students wishing to take this course must make individual arrangements with the instructor.*

### **ELECTRONICS 1 & 2**

*Semester (2 period block) 9-12 grade \$15 Course fee required per semester*

This course covers basic electronics theory and logic for DC & Digital Electronics. Students will use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. This is a course in applied logic that encompasses the application of electronic circuits and devices. **This course may also be taken to fulfill a third science credit requirement.**

### **ELECTRONICS 3**

*Semester (2 period block) 10-12 grade \$15 Course fee required per semester*

**Prerequisite: Electronics 1 & 2**

Students will use computer simulations to learn about the logic of AC and Advanced Digital electronics including interfacing Raspberry Pi computers. Also, they design, test, and actually construct circuits and devices. This is a course in applied logic that encompasses the application of electronic circuits and devices. **This course may also be taken to fulfill a third science credit requirement.**

### **ROBOTICS 1**

*Semester (2 period block) 10-12 grade \$15 Course fee required per semester*

**Prerequisite: Engineering Principles, Engineer/Tech Design**

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.

### **COMPOSITES 1**

*Semester 11-12 grade \$15 Course fee required per semester*

(Taken with Manufacturing Principles 1 = 2 period block)

Strength, stealth and speed – these are key words related to the composites industry. This course focuses on the properties and manufacturing of fiberglass reinforced plastics and advanced composites. Composites 1 is the first in a two-part sequence of courses focusing on advanced materials and processing used in planes, cars, bicycles and many other products. The courses in this pathway include Manufacturing Principles 1, Manufacturing Principles 2, Composites 1 and Composites 2. These courses lead to entry-level technician positions in industry and are appropriate for students desiring college preparation in engineering.

### **MANUFACTURING PRINCIPLES 1**

*Semester 11-12 grade \$15 Course fee required per semester*

(Taken with Composites 1 = 2 period block)

The first in a sequence of courses offering “hands-on” experience producing useable items from wood, plastic, and composite material rough stock that meet a given set of design specifications. Students will use basic tools, equipment and operations found in manufacturing industries. Students will create engineering drawings, use precision measuring instruments, manufacturing equipment, machines, and materials to improve an existing design or manufacture original products. Products will comply with quality control standards. This course allows students to experiment with new technologies and assess application of processes, materials and products.

### **COMPOSITES 2**

*Semester 11-12 grade*

(Taken with Manufacturing Principles 2 = 2 period block) \$15 **Course fee required per semester**

The course work for Manufacturing Principles includes discussion and work in the following areas: History and future of Advanced Composites, Systems and methods of production, Engineering problem solving, Employment possibilities, Safety and work standards, Product development, Design and manufacture individual projects, Marketing and mass production. Approximately 75% of the time is spent in the lab working on exercises and projects.

## MANUFACTURING PRINCIPLES 2

Semester 11-12 grade

(Taken with Composites 2 = 2 period block) \$15 **Course fee required per semester**

The course work for Manufacturing Principles includes discussion and work in the following areas: History and future of Advanced Composites, Systems and methods of production, Engineering problem solving, Employment possibilities, Safety and work standards, Product development, Design and manufacture individual projects, Marketing and mass production. Approximately 75% of the time is spent in the lab working on exercises and projects.

## EDUCATION ACADEMY

### ORIENTATION TO EDUCATION CE \*\*

Semester (2 PERIOD 11-12 grade \$20 **Course fee required per semester**

(Taken with Lifespan Human Development = 2 period block)

Teaching as a career - challenges and rewards, history, philosophies, social issues, legal issues, job availability, and governance. Preparation for acceptance into a teacher education program. Field experience required. All students will have time in an elementary class room as part of this class. *This course offers concurrent enrollment through SLCC EDU1010 3.0 credit hours.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

### LIFESPAN HUMAN DEVELOPMENT CE \*\*

Semester 11-12 grade \$20 **Course fee required per semester**

Fundamentals of growth and development from preconception to old age and death are explored. The domains of physical, cognitive, and social-emotional growth for each age in the life cycle are explored in a variety of contexts. *This course offers concurrent enrollment through SLCC FHS 1500, 3.0 credit hours.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

## GENERAL CONCURRENT CLASSES

### BIOLOGY WITH LAB CE \*\*

Semester 11-12 grade \$40 **Course fee required per semester**

**This course content: biological chemistry, cell structure, metabolism, genetics, evolution, and diversity. Additional lab component (BIOL 1615) required.** *This course offers concurrent enrollment through SLCC BIOL 1610 & 1615, 4.0 credit hours.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

### CHEMISTRY WITH LAB CE \*\*

Semester 11-12 grade \$40 **Course fee required per semester**

Survey of general chemistry: structure, composition, properties and chemical transformations. *This course offers concurrent enrollment through SLCC CHEM 1010, 3.0 credit hours.* Student is responsible to register and pay for concurrent enrollment classes at SLCC.

## OTHER TECHNOLOGY PROGRAMS

*These classes are taught at Taylorsville High School*

### FASHION INSTITUTE CE

Year 11, 12 2 credits

**Basic Fee: \$20.00**

Join this class and learn what it takes to be a fashion designer. Fashion Institute is an exciting new program designed for the creative student who has an interest in the fashion industry as a career choice. Technical and artistic elements of fashion design will be explored as well as industry methods of construction, flat pattern design, draping and surface design techniques. The class will focus on the latest trends in the fashion industry with emphasis on computer designing and knitwear programs. The culmination of the class will be a fashion show to show your designs and line of clothing. Cash prizes are awarded to the best.

### ARMY ROTC CE

Year 11, 12 1 credit -- 2 CE credits-Srs. only

Students participate in skills training called Leadership Education and Training. This course is designed for students who are interested in enriching their high school experience with a military program that teaches skills intended to make them successful in life. It is open to all students. There is no military obligation associated with JROTC. Leadership is trained by having students in leadership positions. Team work is trained by having students solve problems and work together in groups. Students learn to teach others, improve their communications skills and develop self-discipline, confidence, and pride in a job well done. Students are issued an Army uniform (at no cost to them) and will be required to wear it once a week. Students are required to keep their hair at a reasonable length, cannot have beards and are not allowed to wear earrings while in uniform (except females). Subjects include: Leadership, Citizenship, First Aid, Map Reading, Physical Training, and Marksmanship. Extracurricular activities include Drill Team, Color Guard, Rifle Team, and Pentathlon.