

TABLE OF CONTENTS

	<u>Page</u>
General Information	I
Art	2
Business/Computer Education	3
Elementary Aide	6
English Language Learners	6
Family and Consumer Sciences	6
Health	9
Language Arts	10
Mathematics	15
Music	19
Physical Education	21
Project Lead the Way	22
Science	23
Social Studies	26
Special Education	29
Technology Education	30
Work Experience	34
World Languages	35

ART

ART STANDARD REQUIREMENT: All Art Classes Fulfill the Art Standard Requirement.

Art classes are open to all students who wish to improve their art skills and become better visual communicators. Students are encouraged to try a broad range of classes each of which offers unique skills and creative experiences or to repeat classes to gain more knowledge and skills. The world of art has a great deal to offer in either a line of career possibilities or a lifetime pastime which can be enriching and rewarding.

INTRODUCTION TO ART

1005

Trimester Offered: All
Length of Course: One Trimester
Prerequisite: None
Fee: \$20.00 (**Pro-rated for free/reduced lunch students**)

This is an excellent class for students to gain understanding and develop artistic skills at the high school level. A range of mediums and processes will be explored including drawing, painting, design, and clay.

CLAY

Clay I 1010
Clay II 1011

Trimester Offered: Clay I - Trimesters 1 & 2
Clay II – Trimester 3
Length of Course: One Trimester – *Clay I may be repeated for credit*
Prerequisite: Introduction to Art Recommended
Fee: \$20.00 (**Pro-rated for free/reduced lunch students**)

This class is an introduction to wheel throwing and hand building techniques. Students will learn to center, trim, and glaze functional ceramic work. Clay vocabulary and surface decoration will also be taught. Students taking clay subsequent trimesters will further develop their wheel throwing and hand building abilities learning additional forms and advanced techniques.

DRAWING

Drawing I 1050
Drawing II 1051

Trimester Offered: Drawing I – Trimesters 1 & 2
Drawing II – Trimester 3
Length of Course: One Trimester each Drawing One and Drawing Two
Prerequisite: Introduction to Art Recommended
Fee: \$20.00 (**Pro-rated for free/reduced lunch students**)

This class is a must for any students interested in improving their drawing and artistic skills. The fundamental skills learned in this class such as proportion, perspective, use of line, shading, composition, and use of a variety of materials will build student confidence. Students repeating this class will have opportunity to explore various subjects, styles and materials to further develop their own drawing skills and interests.

COMPUTER ART & DESIGN

1070

Trimester Offered: 2nd or 3rd
Length of Course: One Trimester
Prerequisite: Introduction to Art Recommended
Fee: \$20.00 (**Pro-rated for free/reduced lunch students**)

Learn to create original and interesting artwork and designs on the computer. Artwork including text, manipulated photography and animation techniques, screen-style printing, poster and product design, and digital story telling will be explored.

PAINTING

1030

Trimester Offered:	2 nd and 3rd
Length of Course:	One Trimester – <i>Painting may be repeated for credit</i>
Prerequisite:	Introduction to Art recommended
Fee:	\$20.00 (Pro-rated for free/reduced lunch students)

Learn how to paint! Basic painting techniques such as blending, creating textures, washes, wet on wet, wet on dry, and layering of colors will be used in the paintings to achieve various effects. Color mixing will be complimented with selected painting techniques as students learn to train their eye to become more receptive to using color and value.

ADVANCED ART

1025-1026-1027

Elective:	10, 11, 12
Trimester Offered:	All – <i>Taking this class all 3 trimesters is recommended</i>
Length of Course:	1 Trimester - <i>each trimester has different assignments and goals</i>
Prerequisite:	A minimum of three 2-D or 3-D Art Classes
Fee:	\$20.00 (Pro-rated for free/reduced lunch students)

Advanced art students must have demonstrated a commitment to do the best work at all times. Students should be willing to push their art making to a higher level. This class is excellent preparation for AP Art.

AP ART

1020-1021-1022

Elective:	11, 12
Length of Course:	All Year
Prerequisite:	As many art/photo classes as possible; and teacher approval
Fee:	\$25.00 per Trimester (Pro-rated for free/reduced lunch students)

Students will prepare a body of work to be submitted for possible college credit by the AP Board. Students may choose to explore either a two-dimensional or three-dimensional focus. A slide portfolio will be submitted for AP credit and students should expect to complete a significant amount of work outside of class due to the rigorous AP expectations. (**Teacher approval is required**).

ART AREA INSTRUCTION AIDE

1090-1091-1092

Trimester Offered:	All
Length of Course:	One Trimester
Prerequisite:	Teacher approval

Want to help in the Art Department area and classes? This course is designed for those students *who have had classes in the art area* and are interested in providing leadership and teaching assistance in Art classes. Some duties would include record keeping, computer work, cleaning, helping set up for classes, and general helping in the department. Pass/Fail credit will be given. (**Teacher approval is required**).

BUSINESS/COMPUTER EDUCATION

High School Articulated Credit Option “T”: If a student meets the High School Articulated Credit requirements in the designated course, she/he can receive credits at a Technical College. Instructors of High School Articulated Credit courses will explain individual requirements.

ACCOUNTING I – “T”

1310

Elective: 10, 11, 12
Trimester Offered: 1st (Next Offered 2016-2017)
Length of Course: One Trimester

If you are thinking of any Business major in college, this class is a must! In this course you will develop an understanding of the basic principles of the accounting cycle. You will also work with accounting procedures that are used in the workplace today. You will also learn about the wide variety of careers available to someone with an accounting background. This course is designed for the college/vocational/business school student and anyone interested in running his/her own business. A simple calculator would be helpful in completing the assignments and should be brought to class. Accounting for a sole proprietorship in a service business is used as a basis of study.

ACCOUNTING II – “T”

1311

Elective: 10, 11, 12
Trimester Offered: 2nd (Next Offered 2016-2017)
Length of Course: One Trimester
Prerequisite: Accounting I

A continuation of the principles taught in Accounting I. Accounting for a partnership in a retail setting is used as a basis of study.

ACCOUNTING III – “T”

1312

Elective: 10, 11, 12
Trimester Offered: 3rd (Next Offered 2016-2017)
Length of Course: One Trimester
Prerequisite: Accounting I & II

More advanced topics such as depreciation and inventory valuation methods are covered in this class. Basis of study will be corporate accounting.

BUSINESS LAW I: CRIMINAL & CIVIL LAW “T”

1330

Elective: 10, 11, 12
Offered: One Trimester
Prerequisite: None

“Ignorance of the law is no excuse.” Know your rights and responsibilities in everyday business transactions. Law enforcement and court procedures are studied through participation in jail/police department class trips, mock trial, and contact with legal and law enforcement professionals. We will study the law of crimes and torts (criminal and civil law).

BUSINESS LAW II: CONTRACT LAW “T”

1340

Elective: 10, 11, 12
Offered: One Trimester
Prerequisite: None

Every year you make hundreds of business contracts without even knowing it! You are bound by these contracts whether you know the law or not. In this class you will find out how people and businesses rely on these contracts every day. You will also find out what rights you have as a minor and how to protect yourself. This course includes a courtroom observation field trip.

PERSONAL FINANCE/MONEY MANAGEMENT “T”

1360

Elective: 10, 11, 12
Length of Course: One Trimester
Prerequisite: None

“Who wants to be a millionaire”? Learn how in this class by applying practical personal finance procedures. Areas covered are as follows: careers, gross and net pay, budgeting, preparing income tax returns, checking and banking services, various investments, insurance needs and coverage, using credit and consumer loans. A simple calculator is helpful in completing the assignments and should be brought to class.

Elective: 10, 11, 12
 Offered: One Trimester
 Prerequisite: None

If you've ever thought of having your own construction company, day care center, hair and nail salon, or dental office, this class will help you learn what is needed. You will learn how to figure out how much money is needed to start your business and where it might come from. You'll learn about planning, government helps and requirements, taxes, and necessary reports and data to make your business successful. The class gives you the privilege of working in the school store for a hands-on experience in working with small business and using your ideas to make it more successful.

KEYBOARDING I "T"

1370

Elective: 9, 10, 11, 12
 Length of Course: One Trimester
 Prerequisite: None

Keyboarding is a skill that almost everyone will use—in school, on the job, and at home. During this class you will learn the correct technique for the computer keyboard and develop speed and accuracy. If you already know the correct technique for touch typing and can key at least 35 words per minute, see your counselor about testing out of this course and enrolling in Keyboarding II or other Microsoft computer classes. Students will take this class for a Pass/Fail grade only.

KEYBOARDING II: COMPUTERS FOR COLLEGE "T"

1380

Elective: 9, 10, 11, 12
 Length of Course: One Trimester
 Prerequisite: Keyboarding I

Students will develop the skills that are used daily in business and college by using word processing applications. Spreadsheets and graphics/desktop publishing will be introduced. Students will learn the basic formatting of personal and business documents using word processing, spreadsheets and other business application tools. Students will continue the development of keyboarding speed, accuracy, and proofreading skills.

MICROSOFT SOFTWARE: Word, PowerPoint and Excel "T"

1390

Elective: 9, 10, 11, 12
 Length of Course: One Trimester
 Prerequisite: Keyboarding I

Students will work with Microsoft Office Word, PowerPoint and Excel. With Word, you can create letters, tables, web pages, newsletters, brochures and more. Students will create dynamic on-screen presentations with PowerPoint, the presentation graphic tool program. Students will also design their own Power Point slide show using the Internet and other forms of multimedia. Excel is a widely used spreadsheet program that is used to calculate data, track financial data, and create charts and graphs. Most business use this program and consider it a "must have" for employment. We will also learn about and apply social media for appropriate uses.

WEB PAGE/GAME DESIGN

1410

Elective: 10, 11, 12
 Length of Course: One Trimester; May be repeated multiple times; each trimester has separate grades
 Prerequisite: Keyboarding I
Meets the Art Standard Credit

The use of web pages has become a universal tool that businesses and individuals use every day. Students at Apollo will be given the opportunity to learn design and management skills for web page creation. We will use a variety of web editors and software to fit individual needs. Ethics, uses, software, layout, graphics, animation, and multimedia technology are some areas that will be covered in this course. Although not required, we recommend that students have taken the Microsoft Software classes. In addition, we will use game design software to create your own simple games.

Trimester Offered:	All
Length of Course:	One Trimester; May be repeated multiple times; each trimester has separate grades
Prerequisite:	Teacher approval

Would you like to work with the business department staff? Specific tasks will be assigned to you by the teacher. **You must have written permission from the teacher.**

ELEMENTARY AIDE

Elective:	12	4800-4801-4802
Length of Course:	All Year	
Prerequisite:	Application Form	

Do your future plans include working with children as a career choice? In this program you will be working with elementary or junior high students in District 742. After your initial instruction in the spring, you will be assigned to an elementary or junior high school as an aide to teachers for next fall. Aides work from 8:00 to 10:00 am every day. You will receive six credits for working one year as an Elementary Aide (2 credits per trimester). Potential Aides need to fill out an application. **PICK UP THE APPLICATION IN THE GUIDANCE OFFICE DURING REGISTRATION.** The application requires references and signatures along with a list of schools and grade levels for you to choose from. Elementary Aides are selected by: 1) interest, 2) attendance record, 3) desire to spend a full year in the program, and 4) dependability. You must sign up for at least three classes in addition to Elementary Aide. Students in this program must provide their own transportation. A two credit letter grade is issued each trimester.

ENGLISH LANGUAGE LEARNERS

English Language Learning courses offer Language Arts credits to students whose home language is not English. Apollo offers EL classes at several different levels ranging from English Academy to Advanced. The English Academy and Beginning classes are for students who are new learners of English. The Advanced classes focus on language refinement and development of reading and writing skills. As English skills develop, students will be placed progressively in more non-EL classes. The EL teachers will determine placement.

FAMILY AND CONSUMER SCIENCES

People can be trained extensively for a job, but unless they can manage their non-job lives, they cannot be as successful on the job. Family and Consumer Sciences will help in the life-long development of self-sufficient and capable people.

Students are encouraged to try the many areas of Family and Consumer Sciences. The information we have to impart to you is vitally important, especially since a great portion of our program deals with healthy food preparation, nutrition, family life and child development.

High School Articulated Credit Option “T”: If a student meets the High School Articulated Credit requirements in the designated course, he/she can receive credits at a Technical College. Instructor will explain individual requirements.

WORKING WITH CHILDREN I “T”

1690

Elective:	10, 11, 12
Trimester Offered:	1 st
Length of Course:	One Trimester
Prerequisite:	None

Students will understand that parenting is a life long commitment. Students study prenatal care and how children develop physically, socially, and emotionally from the time of birth through age two. Other topics studied are reproduction, birth, parenting, birth defects, and safety of children. Videos, speakers, and class discussion will help students appreciate children by studying and observing children’s growth and development. This course has two required activities to help students understand the cares of parenting. ‘Baby Think it Over” dolls are a required project.

WORKING WITH CHILDREN II “T”

1691

Elective:	10, 11, 12
Trimester Offered:	2 nd
Length of Course	One Trimester
Prerequisite:	Working with Children I

You may someday be working with children either as parents or possibly in a career choice. Students will actually have an opportunity to gain knowledge through classroom instruction and working with 1 - 5 year old children. This is an interesting way to learn how a child develops socially, physically and emotionally. Other topics covered are sibling rivalry, parenting, discipline, food for children, and the influence of television. If you are thinking of becoming an elementary aide, this class is a must! Students will get the opportunity to observe first hand how children act and behave by holding a play school at Apollo.

WORKING WITH CHILDREN III “T”

1692

Elective:	10, 11, 12
Trimester Offered:	3 rd
Length of Course:	One Trimester
Prerequisite:	Working with Children II

In this course students will learn about and discuss helping children who have special needs. Students will also learn about crisis situations that many young people are facing today -- death, divorce or separation, child abuse and neglect. There will be simulation activities, speakers and videos. Oral and written reports will be required in this course.

FASHION & MERCHANDISING

1610

Elective:	10, 11, 12
Length of Course:	One Trimester
Prerequisite:	None
	Meets the Art Standard Credit

Interested in learning how to sew? This course is for you. Here is an opportunity to learn how to care and sew on today’s fabrics. Demonstrations, as well as individual work, will aid you in learning construction techniques. You will have the opportunity to select a challenging project for yourself, your room, or one that will be a gift to someone else. This course may be taken more than once.

FOODS I “T”

1620

Elective:	10, 11, 12
Trimester Offered:	All
Length of Course:	One Trimester
Prerequisite:	None
Fee:	\$20.00 (Pro-rated for free/reduced lunch students)

This foods course focuses on basic cooking skills, which include measuring, abbreviations, equivalents, and recipe terms, as you plan and prepare a variety of foods. My Plate will also be studied along with the nutrients required to maintain a healthy lifestyle

FOODS II “T”

1630

Elective:	10, 11, 12
Trimester Offered:	2 nd
Length of Course:	One Trimester
Prerequisite:	Foods I
Fee:	\$20.00 (Pro-rated for free/reduced lunch students)

Take this class if you would like to continue learning cooking skills that emphasize the preparation of protein foods--such as meats, poultry, eggs, and fish. You will plan, prepare and serve meals while paying particular attention to the nutritional content of these foods.

GOURMET COOKERY “T”

1650

Elective:	10, 11, 12
Trimester Offered:	3 rd
Length of Course:	One Trimester
Prerequisite:	Foods I & Foods II
Fee:	\$25.00 (Pro-rated for free/reduced lunch students) Meets the Art Standard Credit

Have you ever heard of soufflés, crepes, baked Alaska, and quiche Lorraine? Have you ever prepared them? This course focuses on many elegant foods that sound very complicated, but are in fact, simple to prepare. Become a gourmet chef! Join this class.

OUTDOOR FOODS “T”

1695

Elective:	10, 11, 12
Trimester Offered:	3 rd
Length of Course:	One Trimester
Prerequisite:	Foods I & Foods II
Fee:	\$20.00 (Pro-rated for free/reduced lunch students)

Learn the art of campfire cooking, gas and charcoal grilling, backpack cooking, and drying foods. Group labs prepare meats, vegetables, breads, and desserts on barbecue grills. Information will be given on outdoor cooking equipment, backpacking, and campfire cookery. Speakers will enhance the class. **You may only enroll in this class once.**

FOODS FROM OTHER LANDS “T”

1640

Elective:	10, 11, 12
Trimester Offered:	2 nd
Length of Course:	One Trimester
Prerequisite:	Foods I & Foods II
Fee:	\$20.00 (Pro-rated for free/reduced lunch students)

Explore the food heritage of the world as you are introduced to the culture and cuisine of many countries. Lab experiences will include the preparation of appetizers, main entrees, desserts, breads and full meals from Italy, China, France, Germany, and Mexico. Demonstrations performed by the students increase knowledge of other countries.

LIVING ON YOUR OWN

1660

Elective:	10, 11, 12
Length of Course:	One Trimester
Prerequisite:	None

Living On Your Own is a class designed to help you with some of life’s decisions. Do you buy a car or take public transportation? Do you buy a house or rent? Just how do you take care of that leather coat? How do you make dinner? Jobs, advertising, laundry and money are all units in this class.

Elective: 10, 11, 12
Length of Course: One Trimester
Prerequisite: None

Interior Decorating/Housing is great for students interested in this area either for personal or occupational reasons. Learn about housing alternatives, house styles, and floor plans. This course offers a variety of opportunities to learn about the decor of a home. A number of mini projects will summarize what you have learned. Drawing floor plans is included.

FAMILY AND CONSUMER SCIENCES TEACHER AIDE

1780-1781-1782

Elective: 10, 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Preferable – Foods I

This course is designed for those students who are interested in providing leadership and teaching assistance in our classes. Some duties would include record keeping, computer work, setting up demonstrations, and helping in the classroom. **Must have teacher approval.**

HEALTH

HEALTH II

4452

Elective: 10, 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Successful completion of Health

This course is designed for students who want to continue learning about health concepts and how they affect your life. Content will include, but is not limited to, research into death and dying, improving relationships, in-depth understanding of proper nutrition and its affect on all areas of wellness, research of and understanding infectious diseases, cancers and how choices regarding sexual activity influence your life and how they affect the choices you can make in the future. Students will be required to participate in two field trips.

COMMUNITY CPR, FIRST AID, AED

4470

Elective: 9, 10, 11, 12
Length of Course: One Trimester
Fee: \$15.00

Upon completion of this course, students will be certified by the American Red Cross in Adult, Infant and Child CPR, Automatic External Defibrillator and First Aid. This class is worth .5 credits. The fee is a Red Cross charge for student authorization. If the class were taken out of school the cost would be significantly higher.

FIRST RESPONDER

4895-4896

Elective: 11, 12
Trimester Offered: Two Trimesters

Students will be enabled to apply the fundamental skills and knowledge required to function as an entry level First Responder. Emphasis will be placed on skills needed for the recognition of, and emergency care of sick or injured people, utilizing basic EMS equipment and assisting Emergency Medical Technicians once they have arrived. This course is designed for non-ambulance personnel such as law enforcement, fire, rescue, DNR, industry, and private citizens who are involved in pre-hospital emergency care and are first on the scene of an emergency.

Trimester Offered: All (**one student per trimester**)
 Length of Course: One Trimester
 Prerequisite: Instructor Approval, 11th & 12th Grade

Student will assist classroom teacher with attendance, equipment set up, labs, etc.

LANGUAGE ARTS

Students in Grades 9-12 are required to take a Language Arts class *each* trimester.

READ 180/EXPERT 21

Read 180 and Expert 21 are comprehensive systems of curriculum, instruction assessment, and professional development proven to raise reading achievement for students struggling and reading below grade level. This program is available to students and provides remediation through small group, individualized, and adjusted reading instruction. Placement in the program is determined by instructor referral and is in addition to a regular Language Arts course.

All courses offered by the Apollo Language Arts Department count for Language Arts credit **except for yearbook** which counts as a general elective credit. Courses are designated in the following manner:

Level (1): A course designed to enrich and accelerate motivated students. College bound students are strongly encouraged to take Level (1) courses.

Unleveled: A course in which the activities, materials, and assignments allow students of diverse abilities to participate.

The Apollo Language Arts Department abides by the Alternative Selection Policy of the district, which states that students or parents who object to the content of materials used in a particular class may request alternatives that will accomplish the same educational objectives. This includes reading materials as well as videos or other instructional materials. Please contact the instructor for the current list of materials used in a course. Current reading lists are available for inspection by students and/or parents upon request.

Minnesota students are required to have four years of language arts courses (12 credits at Apollo). Students in grades 11-12 are required to take a minimum of two writing courses, two communication courses, and two literature courses.

Required	Writing	Literature	Communications	Elective
LA 9 AY	AP Lang & Comp AY-11	AP Lang & Comp AY-11	AP Lang & Comp AY-11	Yearbook
LA 10 AY	AP Lit & Comp AY-12	AP Lit & Comp AY-12	AP Lit & Comp AY-12	L.A. Aide
	Poetry Writing	Short Story Lit	Public Speaking	
	Film Study	Science Fiction	Interpersonal Comm.	
	Written Comp	Novels	Debate & Argumentation	
	Applied Writing	Humanities	Broadcast/Mass Media	
		Newspaper/Popular Lit		
		Lit of Florence & Rome		

Key: **AY = All Year Course.** **11 – Offered 11th Grade** **12 – Offered 12th Grade**

Writing, Literature and Communications courses are the choices for 11th and 12th grade students. A Writing, Literature and Communications course MUST be taken during your 11th and 12th grade years.

REQUIRED

LANGUAGE ARTS 10

Unleveled 2240-2241-2242
Honors 2243-2244-2245

Length of Course: All Year
Prerequisite: Language Arts 9
Level: Unleveled
 Honors – *Registration for this course must be approved by the Course Instructor.*

This year long course covers the Minnesota Academic Core Standards for grade 10. Areas of focus include, but are not limited to informative texts, novels, grammar, group communications, and writing for a variety of purposes. Honors level includes study of literary theory and debate.

ADVANCED PLACEMENT COURSES

(If you take an AP Course in 11th or 12th grade, you do NOT need to choose a Writing, Literature, or Communications course for that year)

AP LANGUAGE AND COMPOSITION

2203-2204-2205

Grade Offered: 11
Trimester Offered: All Year
Length of Course: All Year - *Registration for this course must be approved by the course instructor.*
Level: 1

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing.

AP LITERATURE AND COMPOSITION

2200-2201-2202

Grade Offered: 12
Trimester Offered: All Year
Length of Course: All Year - *Registration for this course must be approved by the course instructor.*
Level: 1

Advanced Placement (AP) Literature and Composition is a challenging course designed for students seeking college level experience in English. Students will read both classic and contemporary literature, with a focus on developing analytical reading, writing, and discussion skills. Readings will be drawn from novels, plays, short stories, and poetry. Students enrolling in the course will read, write and discuss extensively to build their repertoire of interpretive skills. Finally, students taking the course will be required to read several literary works and write analytical reactions during the summer immediately preceding the start of the course.

WRITING COURSES

(You MUST take one Writing course in 11th Grade and one Writing course in 12th Grade)

POETRY WRITING

2620

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled

Students will explore individual creative approaches to expressing themselves in poetic form. Students will create observations and perspectives, journal entries, and poems. They will participate in evaluations of writings generated by published poets as well as peers. In addition, student products will be compiled to create a personal portfolio of works, which will be representative of all units of study throughout the trimester.

FILM STUDY

2140

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled (*Not NCAA Approved*)

Film is a viable form of expression in our culture. This course uses film as a catalyst for research, discussion, and written expression. Students will discuss the elements of movie making and the themes of classic and contemporary films. Students will respond to films through various styles of writing assignments.

WRITTEN COMPOSITION

2635

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled

Students will develop reading, writing, and critical thinking skills demonstrated through various genres (e.g. narrative, expository, argument). Focus will also be placed on conventions of writing and vocabulary development.

APPLIED WRITING

2629

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled (*Not NCAA Approved*)

Students will practice writing skills that are of practical use in their lives outside of and beyond high school. Major areas of study and practice will include personal and professional writing such as: letters, resumes, reports and proposals, and other forms of correspondence, as well as responding to selected reading and informed opinion writing.

LITERATURE COURSES

(You MUST take one Literature course in 11th Grade and one Literature course in 12th Grade)

SHORT STORY LITERATURE

2110

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled

This course provides students with the opportunity to read a wide selection of short stories. Students will demonstrate knowledge of plot, theme, character, point of view, setting, and irony. Additionally, students will develop their interpretation skills.

SCIENCE FICTION

2100

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled

The literature in this course deals with the realm of possibility. Many science fiction writers begin with the question “What if...?” and provide us with a vision of the way things might be in the near or distant future. Students will read two novels and a dozen or so short stories during this course. Vocabulary study, discussions, quizzes, and tests as well as written reactions to themes in the literature will be part of this course.

NEWSPAPER/POPULAR LITERATURE

2350

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: 2 (*Not NCAA Approved*)

Informed people read newspapers and magazines as a daily diet. The goal of the course is to make reading these two genres a daily, life-long habit. Students will read a prize winning best selling novel as well. Students will be directed to various national and local newspapers, a wide range of magazines as well as internet sites. Writing assignments will include reactions to readings, current event journals, and creative and informative projects.

NOVELS

2360

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled

Students electing Novels as a course of study read and analyze several contemporary novels. A thematic approach to the literature will be evident, and the student will be expected to participate in class discussions as well as write explications and a literary essay.

HUMANITIES

2170

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: 1

Every person contributes something essential and unique towards our understanding of who we are as people (Humanities): a sketch, an idea, a scrap of song, a belief, a piece of literature. In this course, we will examine works of literature, philosophy, and the arts to probe human identity. We explore life’s meanings within the various Western Humanities eras. Our quest will be to discover life and art as they have imitated each other from Ancient Greece to Post Modernism. A bonus is the class exploration of how our own humanities will be preserved thousands of years from now.

REGIONAL WORLD LITERATURE

Grade Offered: 11, 12
Trimester Offered: 3rd
Length of Course: One Trimester
Level: 1 (*Not NCAA Approved*)

Regional World Literature focuses on literature from and inspired by a particular country or region. The focus for the 2015-16 and 2016-17 year will be on literature of the Scandinavian countries, including Norse mythology and the Finnish Kalevala. Students taking this class will also have the option to embark on an experiential learning trip to the Scandinavian countries in June 2017. Instructor approval is required.

COMMUNICATION COURSES

(You MUST take one Communications course in 11th Grade and one Communications course in 12th Grade)

PUBLIC SPEAKING

2511

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled

Public Speaking is one of the most common means of communicating ideas to groups of people. Every day thousands of speeches are given throughout the world. Most are given neither by world leaders nor celebrities. They are ordinary citizens, like us, giving speeches to persuade, inform, entertain, and inspire. They are given at school board meetings, in the business world, in schools, and at employee, parent, student, and special interest group meetings. In short, any time a group of people meet for a purpose, speeches are given. We cannot avoid the power our voices and spoken words have over others. This course offers students the opportunity to practice researching, organizing, and delivering various types of public speeches. From storytelling to informing, persuading, and entertaining, the Public Speaking student can expect to share and express her/his ideas with confidence and heightened eloquence.

INTERPERSONAL COMMUNICATION

2019

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled (*Not NCAA Approved*)

We speak with our mouths, but we communicate with our entire bodies. In fact, experts say that over half of all communication is nonverbal. To truly understand and have healthy communication with others (interpersonal communication) we must learn to read their body language as well as interpret their spoken words. However, it is impossible to have healthy communication with others if we do not first understand ourselves and the messages we send nonverbally and verbally. This course will offer a more in-depth study of the process of communications. Units of study will include interpersonal communications, intrapersonal communications, listening, interviewing, group discussion, and some public speaking.

DEBATE/ARGUMENTATION

2500

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: 1

“He who slings mud generally loses ground.” Adlai Stevenson’s quote reflects the outcome of poor argumentation skills. All too often when trying to persuade others we raise our voice rather than reinforce our argument with thoughtful, rational support. This is what a course in Argumentation is all about. It is a practical, academic, and ethical examination of persuasion. What is it? How we can use argument as an effective means of inquiry, analysis and problem solving. The student of Argumentation will develop skills in logic, persuasion, vocabulary, research, composition, organization, delivery, and ethics in persuasion. Important national issues from a political and evaluative perspective will be examined. This course will aid in preparation for college. The class format will require speeches, in-class debates, work outside of school, and possibly scrimmages with other schools.

BROADCAST/MASS MEDIA

2345

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Level: Unleveled (*Not NCAA Approved*)

This course examines the history of broadcast and mass media in our world and its role in the delivery of information and entertainment. Through class discussions, presentations, and projects, students will analyze the cognitive, emotional, moral, and aesthetic impact of mass media on our society.

ELECTIVE CREDIT ONLY

YEARBOOK

2670-2671

Grade Offered: 10, 11, 12
Trimester Offered: 1st- 2nd
Length of Course: Two Trimesters – *Registration for this course must be approved by the course instructor.*
Level: Unleveled (*Not NCAA Approved*)

This course is a two trimester course; students must register for both trimesters. (Third trimester enrollment is limited to editors.) While producing the yearbook, students in this course are exposed to all aspects of publication production including photography, copy, caption and headline writing, press ethics, and page design principles. The class is divided into two groups: previously selected editors and production staff. All trimesters of yearbook will count toward general elective credits; **you must register for an additional language arts required course for all trimesters.**

LANGUAGE ARTS AIDE

2800-2801-2802

Grade Offered: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Teacher approval

Would you like to work with the Language Arts department staff? Specific tasks will be assigned to you by the teacher. **You must have written permission from the teacher.**

MATHEMATICS

The Mathematics Department offers Math League, SCSU math contest, and the AMC tests. For most courses, calculators are recommended, but not mandatory. Graphing calculators are available to rent from the Math Department for \$30.00 per year. Students must have completed, with a passing grade, three years of mathematics in order to graduate from Apollo High School.

MATH II

3400-3401-3402

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: 8th Grade Math or Equivalent
Not NCAA Approved

This course is designed to meet the needs of the current group of students. An initial test of basic skills will be given to assess the ability levels of the students and modifications to the course may be made. The course will introduce students to the basic mathematical operations of addition, subtraction, multiplication, and division, as well as the basic concepts of whole and counting numbers.

MATH III

3410-3411-3412

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Math II or Equivalent

Not NCAA Approved

This course will focus on developing and improving basic mathematics skills. The course will review operations with whole numbers through the use of the Transmath 1 Resource.

MATH IV

3415-3416-3417

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Math III or Equivalent

Not NCAA Approved

This course will focus on developing and improving basic mathematics skills. The course will review the concepts of rational numbers through the use of the Transmath 2 Resource.

PRE-ALGEBRA

3010-3011-3012

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Math II, Math III or Equivalent

Not NCAA Approved

Pre-Algebra is a course designed for the students who need more preparation for Algebra I, with emphasis in working with equations, inequalities, polynomials, and problem solving. Students should have access to a scientific calculator to use in class. **Students will not be allowed to register for Pre-Algebra if they have already taken Algebra 1.1, Algebra 1.2, Algebra II, Geometry, College Algebra, Pre-Calculus, Calculus or Statistics.**

ALGEBRA I.1

3023-3024-3025

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: 8th Grade Instructor's recommendation or High School Pre-Algebra with a minimum grade of C-

Students will work with real numbers, linear equations, inequalities, absolute value equations, formulas, graphing in the coordinate plane and on number lines, problem solving, relations, and functions. **A scientific calculator is required.**

ALGEBRA I.2

3015-3016-3017

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Algebra I.1

This course is a continuation of Algebra I.1. Students will work with real numbers, linear equations, inequalities, absolute value equations and inequalities, chance and data, formulas, graphing in the coordinate plane and on number lines, factoring, problem solving, relations, functions, and quadratic equations. **A scientific calculator is required.**

GEOMETRY

3300-3301-3302

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: C- or better in Algebra I.2

Geometry develops mathematical concepts of arithmetic and algebra while studying two and three dimensional relationships including shape, space, and measurement. Students will study the logical reasoning process and be introduced to proofs. **A scientific calculator is required.**

GEOMETRY ADVANCED

3310-3311-3312

Elective: 9, 10, 11, 12
Trimester Offered: All Year

Prerequisite: A or B grade in Algebra I.2 (With Instructor's Consent)

In Geometry Advanced you will use concepts of arithmetic and algebra while studying two and three dimensional relationships. This course is designed for students who plan on taking more advanced math classes.

ALGEBRA II AND TRIGONOMETRY

3040-3041-3042

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Geometry, C- or better in Algebra I.1 & I.2

This is a follow-up to Algebra I.1 and I.2 and Geometry. Students will study equations of the first, second, and higher degrees; complex numbers; powers, roots, and radicals; inequalities; methods for solving systems of equations and inequalities; polynomials; functions, including linear, quadratic, exponential, logarithmic, and rational; sequences and series; trigonometry; and probability and statistics. **A scientific calculator is required.**

ALGEBRA II AND TRIGONOMETRY ADVANCED

3050-3051-3052

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: B or better in Algebra I.1 & I.2

This is a follow-up to Algebra I.1 and I.2 and Geometry. Students will study equations of the first, second, and higher degrees; complex numbers; powers, roots, and radicals; inequalities; methods for solving systems of equations and inequalities; polynomials; functions, including linear, quadratic, exponential, logarithmic, and rational; conics; sequences and series; trigonometry; and probability and statistics. **A scientific calculator is required.**

COLLEGE PREP ALGEBRA

3060-3061-3062

Elective: 11, 12
Trimester Offered: All Year - Sequential
Prerequisite: Algebra II and Trigonometry with a C or better

This course is designed to equip students with the essentials needed for a non-science or non-math major in college. It provides a review of algebra and basic geometry with an introduction to probability and statistics. The class cannot be taken after a student has taken Pre-Calculus for a full year. **A graphing calculator is required for the course.**

AP STATISTICS

3070-3071-3072

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: A or B in Algebra II, and teacher permission; Can be taken at the same time as other math classes.

This course is for high school students who can profit from completing a college level study while still in high school. The course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data, including probability. Students will prepare to take the AP Statistics test. **A graphing calculator is required for the course, recommended TI-84.**

PRE-CALCULUS "S2S"

3100-3101-3102

Elective: 11, 12
Trimester Offered: All Year
Prerequisite: Geometry Advanced, Algebra II and Trigonometry Advanced *plus* Instructor's and Parent's Approval.
Algebra II and Trig students need signed form from their instructor.

A course for college-bound students who will need a math major or minor in their course studies or who will be required to take several college math classes as part of a major. Pre-Calculus is an aggressive approach to an in-depth study of algebra, analytic geometry, function theory, and

trigonometry. Students who are successful in this course will find that they can enroll in a college course in calculus upon completion of this course. Students must have their registration sheet signed by a math teacher. Senior to Sophomore may be optional through SCSU within the course. You must wait until Trimester 2 to switch classes. **A graphing calculator is highly recommended.**

AP CALCULUS

3110-3111-3112

Elective: 11, 12
Trimester Offered: All Year
Prerequisite: Before studying calculus, all students should complete four years of secondary mathematics designed for college-bound students: courses in which they study algebra, geometry, trigonometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions. In particular, before studying calculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on) and know the values of the trigonometric functions at the number $0, \frac{\pi}{6}, \frac{\pi}{4}, \frac{\pi}{3}, \frac{\pi}{2}$, and their multiples.

This course is for advanced high school students who can profit in completing a *college level* study while still in high school. The student will be prepared in a mathematical background in college calculus. Calculus will challenge the student mathematically and prepare the student with study skills needed for college mathematics. Students will prepare to take the AP Calculus test. **A graphing calculator is required.**

VOCATIONAL MATHEMATICS

3080-3081-3082

Elective: 12
Trimester Offered: All Year
Prerequisite: Recommendation from prior teachers

This course will continue to provide practice on basic math skills and will include basic consumer applications. Students will be selected for this course based upon appropriate math skills.

MATH AIDE

3800-38011-3802

Elective: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Teacher approval

Would you like to work with the math department staff? Specific tasks will be assigned to you by the teacher. **You must have written permission from the teacher.**

COMPUTER PROGRAMMING I

571411

Elective: 9, 10, 11, 12
Trimester Offered: 1st or 2nd Trimester
Prerequisite: Algebra I prior to or during this course
Does Not Count as a Required Math Credit.

The world is in need of people who can make the computer do what they want it to do. Programming is different from using programs or applications that someone else has written. You are the creator or author of the program. You will learn "BASIC" commands needed to write programs, and no previous experience is required. If you already know some "BASIC", it simply means you may be able to write more programs. You may follow this course with Programming II.

COMPUTER PROGRAMMING II

571412

Elective: 9, 10, 11, 12
Trimester Offered: 3rd Trimester
Prerequisite: Algebra I prior to or during this course and Computer Programming I

Does Not Count as a Required Math Credit.

Write your own programs and create the text boxes, check boxes, options buttons, command buttons and pull-down menus. You are in charge of making it colorful and user friendly. You will need knowledge of the "BASIC" language learned in Programming I. This is an introductory course in Visual Basic.

MUSIC

WOMEN'S CHOIR

4170-4171-4172

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Instructor's Approval

Women's choir is open to female students in grades 10, 11, and 12. Membership is based on director discretion and audition. Requirements and expectations are similar to those of Concert Choir. Occasional performances, practices, and other events outside of regular school hours are required as part of the grading procedure.

MEN'S CHOIR

4175-4176-4177

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Instructor's Approval

Membership in Men's Choir is open to all male students grade 10 through 12. There will be four public performances throughout the year. Students are expected to participate in small group instruction as well as the main ensemble. Proper vocal techniques, music sight reading skills, and basic musical knowledge will be taught in this class through the study of high quality choral literature. Occasional performances, rehearsals, and other events outside regular school hours are required as part of the grading procedure.

VARSITY CHOIR

Women 4145-4146-4147
Men 4143-4144-4148

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Instructor Approval/Discretion

Varsity Choir is a mixed choir ensemble. Four school concert programs will be scheduled each year. Occasionally, performances, practices and other events outside of the regular school day are required as part of the grading process.

CONCERT CHOIR

4160-4161-4162

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Audition/Instructor's Approval

The Concert Choir is an advanced choral performing group with membership open to all sophomore, junior, and senior students on an audition basis. Previous choral experience, while helpful and strongly recommended, is not a requirement. At least five public performances a year are scheduled, with trips to other schools and festivals being added when possible. Performances and practices outside of regular school hours are required as part of the grading procedure. Students are expected to participate in small group vocal instruction as well as the main ensemble.

CHAMBER SINGERS

4150-4151-4152

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Membership in Concert Choir

Chamber singers are a highly select group of auditioned singers from Concert Choir who specialize in the performance of unaccompanied choral music for small ensemble. Private vocal instruction is not required for membership but is strongly encouraged.

CONCERT BAND

4010-4011-4012

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Instructor's Approval

The Concert Band is for 9th grade students, intermediate students and/or students with limited schedule time. This course focuses on the development of ensemble skills and fundamental technical skills necessary for musical performance. Music chosen for Concert Band will include traditional, popular and contemporary styles for high school band. This band performs in three to four concerts during the school year and participates in the Region 8AA Music Festival, and with the Symphonic Band, functions as the Pep Band for selected sporting events.

SYMPHONIC BAND

4020-4021-4022

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Approval of Instructor – Entrance Based on audition.

The Symphonic Band is limited in size and instrumentation. Music will be selected from the high quality traditional and contemporary literature written for band. The Symphonic Band performs in four to five concerts during the school year and participates in the Central Lakes Conference Music Festival, and with the Concert Band, functions as the Pep Band at selected Apollo sporting events. The Symphonic Band tours annually in the spring as ambassadors of Apollo High School. This tour will vary from year to year. All students must audition for placement in the group and are encouraged to study privately on their instrument.

JAZZ ENSEMBLE

4200-4201-4202

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Audition and permission of instructor; membership in another music class suggested and encouraged

The Jazz Ensemble is a selected group and will be open to the members of the Band Program who are either invited by the instructor or make the group by audition. Instrumentation includes: alto, tenor and baritone saxophones; trumpets; trombones; bass guitar; guitar; piano; auxiliary percussion; and drum set. This group performs in three concerts during the school year. The Jazz Ensemble rehearses one day each cycle and Tuesday mornings from 7:15 - 8:10.

ORCHESTRA – SYMPHONY

4320-4321-4322

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Audition

Membership in the Symphony Orchestra is open to students with advanced string skills. The group performs a wide variety of string orchestra as well as full orchestra music of different styles and cultures. Students rehearse daily in large and small groups and take individual or small group lessons. Performance opportunities include: Concerts each trimester, trips to other schools, Central Lakes Large Group Festival, and regional string contest. Auditions are held in the spring previous to the new school year.

CHAMBER ORCHESTRA

4300-4301-4302

Elective: 10, 11, 12
Trimester Offered: All Year
Prerequisite: Audition/Instructor's Approval

Chamber Orchestra is a small group of very select string students chosen from the Apollo Symphony membership. The orchestra performs literature specifically written for chamber groups.

ORCHESTRA – SINFONIA

4310-4311-4312

Elective: 9, 10, 11, 12
Trimester Offered: All Year
Prerequisite: Instructor’s Approval

The Sinfonia Orchestra is an intermediate ensemble, which focuses on developing technique and musicianship specific to the needs of a string player. Students rehearse as an orchestra three days per cycle and meet for small group or individual lessons every other cycle. The Sinfonia performs music of various styles and cultures. A public performance is given each trimester, and students also have the opportunity to participate in regional string contests.

MUSIC AIDE

4380-4381-4382

Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Teacher approval

Would you like to work with the business department staff? Specific tasks will be assigned to you by the teacher. **You must have written permission from the teacher.**

PHYSICAL EDUCATION

Sophomores will choose one course of the 5 listed to complete their 10th grade physical education requirements, understanding that core fitness instruction will be included in all courses. Junior and Seniors may also register for these classes as electives. Each of the following classes may be taken only one time during the school year with the exception of the Basic and Advanced Strength Training courses, where it is encouraged to take a full year.

PERSONAL FITNESS TRENDS

4420-4421-4422

Elective: 10, 11, 12
Prerequisite: Successful completion of PE 9

This course is designed to focus the student at an individual level. Students will participate in weight lifting, step aerobics, yoga, Pilates, Tae Bo, walking/jogging with pedometers and other fitness skills. Students will recognize the importance of physical education as a lifelong necessity.

COMPETITIVE TEAM ACTIVITIES

4430-4431-4432

Elective: 10, 11, 12
Prerequisite: Successful completion of PE 9.

This course is designed to allow the student to participate in a variety of team activities. Students will build on activities experienced in their 9th grade Phy Ed class. Participation, game strategy and understanding of the rules will be strived for at an advanced level. Activities include: Basketball, Dodgeball, Volleyball, Touch Football, Soccer, Speedball, Softball and Floor Hockey.

RECREATIONAL TEAM & LIFETIME SPORTS

4440-4441-4442

Elective: 10, 11, 12

Prerequisite: Successful completion of PE 9

Recreational team sports will allow the student to participate in a variety of team and dual sport activities at a recreational level. Participation and knowledge of the game will be expected at a high level, however, skills and strategy will be at a basic level. Cooperative team concepts will be a focus, as well as principles of training necessary to improve fitness. Emphasis will be on fitness for life. Activities include: Wellness Activities, Badminton, Golf, Tennis, Pickleball, Volleyball and other recreational games.

BASIC STRENGTH TRAINING

4453-4454-4455

Elective: 10, 11, 12
Prerequisite: Successful completion of PE 9
Offered: Every Other Day

This course is designed to introduce the student to introductory weight lifting programs. The student will learn correct free weight lifting techniques along with instructions on how to use all equipment in the wellness center. The student will also gain knowledge of different muscle groups and which piece of equipment builds those specific muscle groups. The student will participate in a personalized weight training program.

ADVANCED STRENGTH TRAINING

4456-4457-4458

Elective: 10, 11, 12
Prerequisite: Successful completion of PE 9
Offered: Every Day - 1 Credit for Class

This class is for the student who is looking for a more intense and advanced work out. This course will emphasize weight training with the addition of plyometrics, speed, and agility training for students wanting to gain an athletic edge. Students will get in great shape and follow a specific conditioning program. Students will develop their own personal fitness goals.

PROJECT LEAD THE WAY

Project Lead the Way (PLTW) is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs used in middle and high schools across the U.S. PLTW courses engage students in activities, projects, and problem-based (APPB) learning, which provides hands on classroom experiences. Students create, design, build, discover, collaborate and solve problems while applying what they learn to math and science.

PRINCIPLES OF THE BIOMEDICAL SCIENCES

4890-4891-4892

Elective: 9, 10, 11, 12
Offered: All Year

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses.

BIOMEDICAL INNOVATION

4893-4894

Elective: 12
Trimester Offered: Two Trimesters (**NOT OFFERED 2015-2016**)

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals.

HUMAN BODY SYSTEMS/MEDICAL INTERVENTIONS

4887-4888-4889

Elective: 10, 11, 12
Trimester Offered: All Year (**NOT OFFERED 2015-2016**)
Prerequisite: Principles of the Biomedical Sciences

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. Medical Interventions is a “How To” manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

SCIENCE

The study of life has always fascinated humankind and in this modern technological world, this fascination increases. The science electives offer you opportunities to study various kinds of life--of the earth, stars, plants, and animals. Whether you want to fulfill your three credit science requirements, satisfy your curiosity, or prepare for a science related career, there is a class available to meet your needs.

THE SCIENCE DEPARTMENT RECOMMENDS:

If you are interested in a career in the Health Sciences, such as physician, nurse, physician’s assistant, physical therapy, x-ray technologist, or others, these careers require taking the following sequence of courses:

Science 9	10 th Grade Biology	11 th and 12 th Grade: Anatomy & Physiology, Chemistry and Physics
-----------	--------------------------------	--

If you are interested in a career in the Physical Sciences, such a physicist, chemist, geologist, meteorologist, astronomer, or others, these careers require the following sequence of courses:

Science 9	10 th Grade Biology	11 th and 12 th Grade: Chemistry and Physics
-----------	--------------------------------	--

If you are interested in a career in the Environmental Sciences, such as wildlife biology, fisheries, forest ranger, wildlife management, or others, these careers require taking the following sequence of courses:

Science 9	10 th Grade Biology	11 th and 12 th Grade: Chemistry and Physics along with specialized courses: Environmental Science
-----------	--------------------------------	---

Specialized science courses such as Environmental Science, Health Careers, and others may be taken during the 11th or 12th grade with other science courses. Many other careers need special courses. Please visit with a science teacher to get further suggestions. AP courses are recommended for those students who wish a more rigorous course. Please see the requirements for each course prior to signing up. Most colleges strongly encourage that Chemistry and Physics be taken during high school. S2S (Senior to Sophomore) college credits will transfer to most colleges.

ANATOMY & PHYSIOLOGY - “S2S”

5120-5121-5122

(Senior to Sophomore at SCSU is optional within the course)

Elective: 11, 12
Length of Course: All Year
Prerequisite: Biology (Minimum grade of C)

Fee: To be determined each year.

Human Anatomy and Physiology is an introductory college level course. This course includes an in-depth study of all of the systems of the human body. Lab work is an important part of this course and includes fetal pig and heart dissection as well as many other hands on labs designed to understand the fine design of the human organism. **This is a rigorous course with high academic expectations of the students enrolled in the course.**

BIOLOGY

5130-5131-5132

Required: 10
Length of Course: All Year

Biology is life. This course is designed to provide students with an opportunity to build an understanding of biological concepts. Concepts include chemistry of life, cells, genetics, evolution, bio-diversity, and ecology. Students will engage in a variety of learning experiences including small group work, laboratory activities, films, lectures, and interactive technology. This course is designed to give students an in-depth understanding and appreciation of life.

AP BIOLOGY

5135-5136-5137

Elective: 10 (*May be taken during 11th and 12th grade for Elective Credit only*)
Length of Course: All Year
Prerequisite: Recommendation from Physical Science Teacher
Science 9(minimum of a B)
9th Grade Algebra

This course can be taken in place of Biology providing the prerequisites are met. The Advanced Placement Biology curriculum is equivalent to an Introductory Biology college course. This course is designed to be fast paced and in depth. Concepts studied in this course include chemistry of life, cell energetic, heredity, molecular genetics, evolution, diversity of organisms, structure and function of both plants and animals, and ecology. The primary emphasis of this course is to demonstrate an understanding of the above concepts in a laboratory setting. All students in AP Biology are encouraged to take the AP Exam in the spring for college credit.

PRACTICAL CHEMISTRY

5203-5204-5205

Elective: 11, 12
Length of Course: All Year
Not NCAA Approved

In this course, students will meet the requirements of the graduation standards while introducing students to basic chemistry concepts. Students will practice what they have learned through a variety of learning experiences. Concepts are connected to real life skills including math and scientific reading skills, and current events using an activity based format. This course is designed to prepare students for a technical college experience or a non-science four-year degree.

CHEMISTRY - "S2S"

5200-5201-5202

(Senior to Sophomore through SCSU is optional within the course)

Elective: 11, 12
Length of Course: All Year
Prerequisite: Algebra I

In this course, students will meet the requirements of the graduation standards at the rigor level of an introductory college level class. Learning experiences will include small group work, class discussion, interactive technology and laboratory experiments.

AP CHEMISTRY

5210-5211-5212

Elective: 11, 12
Length of Course: All Year
Prerequisite: Algebra II, having Chemistry is recommended

Advanced Placement Chemistry is a college level chemistry course. This course is an in-depth study of the principles and concepts in chemistry. Content includes atomic structure, bonding, stoichiometry, thermodynamics, kinetics, acids/bases, quantitative analysis and organic chemistry.

Students are required to demonstrate an understanding of these principles through application in a laboratory situation. All students in Advanced Placement Chemistry are encouraged to take the Advanced Placement Exam in the spring.

NOTE: Physics may be taken either concurrently with Advanced Placement Chemistry or even the following year, but should not be “bypassed” by anyone interested in further studies in science.

ENVIRONMENTAL SCIENCE

5300-5301-5302

Elective: 11, 12
Length of Course: All Year
Prerequisite: Must Pass Three Trimesters of Biology

If you enjoy the outdoors or have considered a career in biology, fisheries, forest management, wildlife management, environmental engineering, or other outdoor related careers, Environmental Science is the class for you! Environmental Science is the study of how humans interact with the environment. Students will be investigating various environmental issues impacting our environment. Students will also be introduced to the biodiversity of Minnesota including identification of Trees, Wildflowers, Waterfowl, Mammals, Song Birds, Reptiles, Amphibians, and Fish. The class ends with a trip to the Minnesota Zoo.

PRACTICAL PHYSICS

5603-5604-5605

Elective: 11, 12
Length of Course: All Year
Not NCAA Approved

Practical physics is a course designed to give students a hand-on experience in understanding matter, energy, and transformation of energy. This course is designed to prepare students for a technical college experience or non-science four- year degree.

PHYSICS – “S2S”

5600-5601-5602

(Senior to Sophomore at SCSU is optional within the course)

Elective: 11, 12
Length of Course: All Year
Prerequisite: Enrollment in Algebra II or higher math class.

This class is designed to prepare students for rigorous college coursework. The laboratory will be used extensively to help you study matter, energy, and transformation of energy. A mathematics background is necessary to understand the concepts as well as the interpretation of physical information.

AP PHYSICS

5610-5611-5612

Elective: 11, 12
Length of Course: All Year
Prerequisite: Algebra II/Trigonometry with a grade of A or B *or*
Advanced Algebra II Trigonometry with a grade of A, B, or C

Students in this class will study force, motion (including rotational dynamics), work, energy, power, waves, sound, and electric circuits. It is equivalent to a first semester algebra based college physics course and students may earn college credit by taking the AP Physics 1 test in May of each year. In addition, some calculus based physics will be discussed as some students may wish to take the calculus based AP Physics Mechanics test given in May of each year.

HEALTH CAREERS “T”

5400-5401-5402

(Credit at SCTC is granted for HLTH 1825, Medical Terminology, if the student meets the Articulated Credit Requirements)

Elective: 12
Length of Course: All Year
Prerequisite: Human Anatomy & Physiology. Students must fill out an application, have 3 teacher recommendations and go through an interview process.

This course MUST be taken with Health Internship

The course is designed to expose students to various health related careers. In addition to in class curriculum, students are expected to serve two 24 hour internships in any one of the numerous local health care facilities. Students also have an opportunity to volunteer at a local Long Term Care Facility and audit a college class. Other topics include CPR/First Aid/AED Certification and Bioethics.

HEALTH INTERNSHIP “T”

5410

(Credit at SCTC is granted for HLTH 1825, Medical Terminology, if the student meets the Articulated Credit Requirements)

Elective: 12
 Length of Course: 1st, 2nd and 3rd Trimester
 Prerequisite: Human Anatomy & Physiology. Students must fill out an application, have 3 teacher recommendations and go through and interview process.
This course MUST be taken with Health Careers

The course is designed to provide students with two off campus internships in a medical career field which begins in mid-October.. The course offers guest speakers from various medical careers, long-term care facility experience, tours of medical facilities and other opportunities focused on health careers. **Students must be able to provide their own transportation.**

SCIENCE LABORATORY ASSISTANT

5800-5801-5802

Elective: 10, 11, 12
 Trimester Offered: All
 Prerequisite: Approval from a specific Science Teacher

Would you like to work with the science department staff? You would be assigned specific laboratory duties for the times you are scheduled. Contact specific science teacher to sign up. This course will be graded on a Pass-Fail basis.

SOCIAL STUDIES

Grade	Required Social Studies Courses	Length of Course
9	Geography 9 AP Human Geography	2 Trimesters (Starting with the class of 2017) All Year
10	World History AP World History	All Year (Starting with the Class of 2016) All Year
11	U.S. History AP U.S. History	All Year All Year
12	Economics Government Elective	1 Trimester 1 Trimester 1 Trimester
Grade	Elective Social Studies Courses	Length of Course
11 – 12	AP Psychology Practical Law Psychology Sociology	All Year 1 Trimester 1 Trimester 1 Trimester

AP HUMAN GEOGRAPHY

6125-6126-6127

Elective: 9, 10, 11, 12
 Length of Course: All Year
 Prerequisite: You must be in the top one third of your class or have the instructor’s permission

Advanced Placement (AP) Human Geography is a challenging course that is meant to be the equivalent of an introductory college course. Solid reading and writing skills are necessary to handle the rigors of the course. Some topics of study include population and migration, agriculture, popular and folk culture, political systems, and urbanization.

10TH GRADE

WORLD HISTORY

Unleveled 6503-6504-6505
 Level 2 6507-6508

Required: 10
 Length of Course: All Year
 Levels: Unleveled – **NCAA Approved**
 2 – **Not NCAA Approved – Selection by Counselors and Staff**

This course is a broad survey of World History. Students will look at the movements, personalities and cultures of many different world civilizations. Reading, writing and class attendance are all required. Sophomores will be required to take this class all year.

AP WORLD HISTORY

6500-6501-6502

Elective: 10, 11, 12
 Length of Course: All year

Advanced Placement (AP) World History is a challenging course that is meant to be the equivalent of a freshman college course and can earn the student college credit. It is a three trimester survey of World History. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing and interpretation of original documents.

11th GRADE

UNITED STATES HISTORY

Unleveled 6410-6411-6412
 Level 2 6420-6421-6422

Required: 11
 Length of Course: All Year
 Levels: Unleveled - **NCAA Approved**
 Level 2 - **Not NCAA Approved - Selection by Counselors and Staff**

This course is a broad survey of American History beginning with the Peopling of the Americas through the United States today. Special emphasis will be given to values and ideas that developed out of The Americans. Reading, writing, class attendance, and completion of all assignments are required. Many Power Points, videos, slides, lectures, and activities will be used along with group discussion.

AP UNITED STATES HISTORY

6400-6401-6402

Elective: 11, 12

Length of Course: All Year

Advanced Placement (AP) History is a challenging course that is meant to be the equivalent of a freshman college course and can earn student college credit. It is a three trimester survey of American History from the age of exploration and discovery to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents, and historiography.

12th GRADE

ECONOMICS

6010

Length of Course: One Trimester
Level: Unleveled

Economics is the study of the production, consumption and distribution of goods and services. Economic study attempts to explain how the use of natural, technological, and financial resources affect the lives of human beings. *Whether the future finds you reading the newspaper, running a business, or sitting in the Oval Office, you will be glad you studied Economics.*

ECONOMICS - Senior-to-Sophomore

6000

Trimesters Offered: 1st
Length of Course: One Trimester
Level: To qualify you must be in the top third of your class - **NCAA Approved**

S2S Economics is an introductory college level course taught in conjunction with the Economics Department at St. Cloud State University. Upon successful completion you will receive **high school credit and three semester college credits**. This course explores a variety of social issues such as crime, professional sports, poverty, higher education, pollution, international trade, unemployment, and inflation. *If you want to get a start on your college education, this course is designed for you!*

GOVERNMENT

6250

Required: 12
Length of Course: One Trimester

Senior Government will help students gain the knowledge and skills needed for informed, responsible participation in public life. It is the study of constitutional principles and the democratic foundation of our national, state and local institutions. Students will also study the political processes and structures of government, grounded in the understanding of constitutional government under the rule of law.

11TH AND 12TH GRADE ELECTIVES

PRACTICAL LAW

6150

Elective: 11, 12
Length of Course: One Trimester

Practical Law provides an understanding of law and the legal system while improving students' understanding of the fundamental principles and values underlying our Constitution. In addition, this course will promote awareness of current issues and controversies relating to law and the legal system, and will improve understanding of the roles that law, lawyers, law enforcement officers, and the legal system play in our society. Lastly, this course will provide exposure to the many vocational opportunities that exists within the legal system.

PSYCHOLOGY

6210

Elective: 11, 12
Trimesters Offered: All
Length of Course: One Trimester

This course is designed to cover many of the basic concepts essential for an introductory Psychology course. The major focus of the course is to gain more knowledge of and interest in human behavior. Some of the topics in Psychology include: learning, personality, intelligence, memory, mental disorders, motivation and many others. If you are interested in finding out why people do the things they do, you will enjoy this course.

AP PSYCHOLOGY

6200-6201-6202

Elective: 11, 12
Length of Course: All year

Advanced Placement (AP) Psychology is a challenging course that is meant to be the equivalent of an introductory college course in Psychology. Because students will prepare to take the AP Psychology exam for college credit in the spring, exams are emphasized in this course. The purpose of the AP course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within Psychology. They also learn about the methods psychologists use in their science and practice.

SOCIOLOGY

6380

Elective: 11, 12
Length of Course: One Trimester

Sociology is the study of human society and social behavior (human relationships). The tools of sociological inquiry are applied to the study of contemporary social issues and historical events. Through this course, students will learn to appreciate social diversity and become more open to new ideas, life styles, and philosophies.

SOCIAL STUDIES AIDE

6800-6801-6802

Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Teacher approval

Would you like to work with the social studies department staff? Specific tasks will be assigned to you by the teacher. **You must have written permission from the teacher.**

SPECIAL EDUCATION

An Individual Education Planning (IEP) meeting involving parent(s)/guardian(s), the student and relevant school staff is conducted annually for all students with disabilities. The IEP team determines the courses, transition needs and graduation requirements for each student with disabilities.

Most students with disabilities will participate in general education classes and progress toward the standard requirements for graduation. Most students will also participate in district and statewide assessments and will be offered appropriate testing accommodations.

Students with more significant developmental, academic or behavioral needs may participate with modified or alternative curriculum and graduation requirements defined by their IEP team. Some students will work toward individual standards. Other students who are exempt from district and/or statewide assessments will participate in alternate assessment. The type and amount of special education support a student receives is determined by the student's IEP.

TECHNOLOGY EDUCATION

EAGLE UPDATE – VIDEO PRODUCTION

8192-8193-8194

Elective:	11, 12
Trimester Offered:	All
Length of Course:	All Year
Prerequisite:	Instructor Approval Only. Application available in the Guidance Office.
Lab Fee:	\$25.00 (Pro-rated for free/reduced lunch students) Meets Art Standard/Credit

“Eagle Update” is to be a thoughtful online show for student produced news and programming meant for broadcast to our school and community. Broadcasts will primarily be viewed from the web, but student led opportunities to submit meaningful video for other school functions will also be part of Eagle Update. Examples include: videos for the local cable channel, pep fests, school wide lessons, video contests, and community relations or client-based projects. Overall, students will learn and apply the principles of videography – writing/scripting, storyboarding, shooting, editing, and sharing quality video productions. We need variety – editors, writers, camera operators, and personalities to serve as reporters or anchors!

INTRODUCTION TO MULTIMEDIA

8190

Elective:	10, 11, 12
Trimester Offered:	All
Length of Course:	One Trimester
Prerequisite:	None
Lab Fee:	\$20.00 (Pro-rated for free/reduced lunch students) Meets Art Standard/Credit

This course works in the world of Multimedia. You will be working with still and motion media, computer software such as Adobe Photoshop, and Apple’s iPhoto, iMovie, and iTunes. The course will also provide you with skills in Desktop Publishing, digital editing and design, and an introduction to video production.

DIGITAL PHOTOGRAPHY

8160

Elective:	9,10, 11, 12
Trimester Offered:	All
Length of Course:	One Trimester
Prerequisite:	None
Lab Fee:	\$25.00 (Pro-rated for free/reduced lunch students) Meets Art Standard/Credit

Digital Photography gets you working with the power of the still image. You will learn to operate point-and-shoot digital cameras, how to utilize the elements of composition to improve your photography, and how to manipulate photos using digital editing software. Entry level Photoshop Elements will also be taught. Students do not need a camera, but can use their own if the camera’s image quality is 4.0 megapixels or higher. This course builds a foundation for Advanced Digital Photography.

ADVANCED DIGITAL PHOTOGRAPHY

8161

Elective:	9,10, 11, 12
Trimester Offered:	All
Length of Course:	One Trimester
Prerequisite:	Must Pass Digital Photography with a “C” or better

Lab Fee: \$25.00 (Pro-rated for free/reduced lunch students)
Meets Art Standard/Credit

Now that you have the basics mastered, you can learn the techniques of the professionals. Delayed exposure, flash photography, and opportunities to work with Apollo's own portrait studio. You will work with digital photography, airbrushing portraits, manipulating photos, creating slideshows in the Tech Ed Mac Lab, and Canon Digital Rebel SLR cameras.

INTRO TO ENGINEERING DESIGN (PROJECT LEAD THE WAY)

4880-4881-4882

Elective: 9, 10, 11, 12
Trimester Offered: All
Length of Course: One Year
Prerequisite: None – Must meet Senior-to-Sophomore requirements by grade level.
Lab Fee: \$25.00 (Pro-rated for free/reduced lunch students)
College/University Credit Available (3 transcript credits)
Meets Art Standard/Credit

If you are considering a career in engineering, design, architecture, or any other related field, this course is a must. "IED" utilizes modeling design software and 3D printing technology to teach the design process used in industry ranging from medical device manufacturers to aerospace. This class will give you a English Academy on your STEM career, and will also enhance your ability to be accepted to a wider variety of engineering programs. All engineers must have a base level understanding of design. You will also have opportunities to go on engineering field trips to local companies and design firms.

PRINCIPLES OF ENGINEERING (PROJECT LEAD THE WAY)

4883-4884-4885

Elective: 11, 12
Trimester Offered: All
Length of Course: One Year
Prerequisite: Intro to Engineering Design
Lab Fee: \$30.00 (Pro-rated for free/reduced lunch students)
College/University Credit Available (3 transcript credits)

This course is designed to help students understand the field of engineering and engineering technology. If you have an interest in engineering, but are unsure what *kind* of engineering, "POE" would be a great fit: this course is for you! A true engineering variety is taught in this course, including material science and testing, statics, robotic programming, projectile motion, mechanical design, hydraulics, and thermodynamics.

ENGINEERING DESIGN & DEVELOPMENT

4877-4878-4879

Elective: 12
Trimester Offered: All
Length of Course: One Year
Prerequisite: **Instructor Approval Only**
Lab Fee: None

In this capstone course, students work in teams to design and develop an original solution to a valid open ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students.

PROJECT DESIGN WOODS

8201

Elective: 9,10, 11, 12
Trimester Offered:
Length of Course: One Trimester

Prerequisite: None
Lab Fee: \$25.00 (**Pro-rated for free/reduced lunch students**) Safety Glasses Required

This course is built to explore design through the medium of woodworking. You will explore your creativity by designing and fabricating a project. Basic competencies in technical sketching and safety will be taught, as well as species identification, joinery, machining, and finishing.

INTRODUCTION TO METALS

8150

Elective: 9,10, 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: None
Lab Fee: \$25.00 (**Pro-rated for free/reduced lunch students**) Safety Glasses Required

This course is an introduction to all things metal fabrication. Students will be introduced to welding, forming, heat treatment, and machining practices. Material identification and selection will also be covered as students build a variety of metal projects to be brought home. This is a great class if students are interested in engineering, design/fabrication, metallurgical engineering, metal art sculpture, or just want to sample the incredible world and career opportunities found in metals!

CONSTRUCTION TECHNOLOGY

8206-8207

Elective: 9, 10, 11, 12
Trimester Offered: 2nd & 3rd
Length of Course: Two Trimesters
Prerequisite: None
Lab Fee: \$25.00 (**Pro-rated for free/reduced lunch students**)

This course will enable the student to learn about materials and methods for framing floors, walls and rafters for residential and light commercial construction. The course will cover terms, techniques and layouts used. Estimating and materials used will also be emphasized. Installation of doors and windows, roofing and siding

GENERAL AUTOMOTIVE SERVICE

8040

Elective: 9, 10, 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: None
Lab Fee: \$15.00 (**Pro-rated for free/reduced lunch students**)
High School Articulated Credit is Given for this Course

This course covers all the major systems of modern vehicles and general maintenance required. We will cover procedures for servicing vehicles, shop safety, and the use of service manuals and bulletins. Tools, equipment, and minor repairs or service will also be taught. A driver's license is **NOT** required for this class.

AYES – DISCOVERY ACADEMY FOR AUTMOTIVE

YEAR 1: 4859-4860-4861

YEAR 2: 4862-4863-4864

Elective: 11, 12 - **Discovery Academy Application Required**
Trimester Offered: All
Length of Course: All Year
Prerequisite: 1. General Automotive Service
2. C+ average, and
3. Recommendation of General Automotive Service instructor

The AYES (Automotive Youth Education System (www.ayes.org) program is designed to give students the opportunity to learn first hand the art of automotive repair and diagnosis. Lab activities will include diagnosis and repair of customer vehicle and also some donated vehicles from St. Cloud Technical College (SCTC). There are four main areas of study; Brakes, Chassis Electrical, Engineer Performance, and Suspension and Steering/Wheel Alignment. The classes are provided in conjunction with SCTC and are taught by ASE certified SCTC instructors.

WELDING PRINCIPLES – DISCOVERY ACADEMY FOR WELDING

4854

Elective: 10, 11, 12 (**Sophomores can receive Tech Prep certificates, but cannot receive transcript credit**)
Trimester Offered: All
Length of Course: One Trimester – 2 Class Periods
Prerequisite: None
Lab Fee: \$20.00 (**Pro-rated for free/reduced lunch students**)
Discovery Academy Application Required

This course covers the safety issues connected with the arc welding process, oxy-fuel welding, and oxy-fuel cutting. A very important part of this course will be discussing safety as related to oxy-fuel equipment and set-up. The students will also be required to demonstrate the safe use of the equipment. Time will be spent in the lab developing skills using the Shielded Metal Arc Welding and Gas Metal Arc Welding processes along with Oxy-fuel welding and brazing. Welds will be made in the flat, horizontal, vertical and overhead positions. Welding tests will be done in accordance with the AWS welding codes.

ADVANCED WELDING – DISCOVERY ACADEMY FOR WELDING

4855

Elective: 10, 11, 12 (**Sophomores can receive Tech Prep certificates, but cannot receive transcript credit**)
Trimester Offered: All
Length of Course: One Trimester – 2 Class Periods
Prerequisite: Welding Principles
Lab Fee: \$20.00 (**Pro-rated for free/reduced lunch students**)
Discovery Academy Application Required

This course covers the safety issues connected with the arc welding process and cutting equipment used in the metal fabrication industry. Their will be discussions on the different types of power sources used in arc welding. Current selection and applications, electrode selection and application, electrodes and the AWS electrode code will be defined. Time will be spent in the lab developing skills using the Shielded Metal Arc Welding, Gas Metal Arc Welding processes, along with the use of cutting equipment used in the metal fabrication industry. Cutting equipment will be manual and automated flame cutting equipment. Plasma cutting and mechanical cutting methods will include sawing and shearing. Welds will be made in the flat, horizontal, vertical and overhead positions. Welding tests will be done in accordance with the AWS welding codes.

INDEPENDENT STUDY

8290

Elective: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Must have taken the class before and **permission from the instructor.**
Attendance will be taken.

The purpose of this course is to give the student the opportunity to explore an interest area. A one page typed explanation of your goals for the independent study course must be submitted to the instructor at the time you request permission.

STUDENT INSTRUCTOR

8280-8281-8282

Elective: 11, 12
Trimester Offered: All
Length of Course: One Trimester
Prerequisite: Must have taken the class before, achieved a “B”, and **permission from the instructor.**
Attendance will be taken.

The purpose of this course is to give the student the opportunity to explore an interest area by assisting in the classroom and lab activities to help their peers.

WORK EXPERIENCE

Each work experience program has two components: the “From School to Work” class, and the on-the-job “work experience” that students have within the community. Students receive one (1) credit for the class, and up to two (2) credits for their “work experience” if they have been successfully employed, on a part-time basis, for the majority of the trimester. The following are more detailed descriptions of these programs, including the “From School to Work” class related to them.

JUNIOR/SENIOR WORK EXPERIENCE – FROM SCHOOL TO WORK CLASS

8310-8311-8312

Elective: 11, 12
Offered: All Year; however students may enroll for any trimester(s)
Credit: 1 credit per trimester

From School to Work class emphasizes real-world topics such as career assessment and exploration, workplace safety, skills for success, applications, resume writing, credit, insurance, managing your income and more. This class will provide students with a “hands on” learning approach to build career awareness and develop critical thinking skills and problem solving skills.

** Up to two additional credits are awarded to students who have successful work experiences. (See Employment Credit below)

JUNIOR/SENIOR - WORK EXPERIENCE (BASIC)

7250-7251-7252

Elective: 11, 12
Offered: All Year

Elective: 11, 12
Offered: All Year; however students may enroll for any trimester(s)
Credit: 1 credit per trimester

From School to Work class emphasizes real-world topics such as career assessment and exploration, workplace safety, skills for success, applications, resume writing, credit, insurance, managing your income and more. This class will provide students with a “hands on” learning approach to build career awareness and develop critical thinking skills and problem solving skills.

** Up to two additional credits are awarded to students who have successful work experiences. (See Employment Credit below)

EMPLOYMENT CREDIT

Elective: 11, 12
Offered: All Year; however students may enroll for any trimester(s)
Credits: Up to 2 credits per trimester

Students who satisfactorily complete the From School to Work class are eligible to receive up to 2 additional credits for their employment. Students enrolled in this portion of the program will be expected to find and maintain employment. Credit is based upon total number of hours worked per trimester with a minimum of 120 hours needed for two credits; 60 hours for one credit. Employers will grade students based upon usage of SCANS skills such as attendance, accuracy, ability to follow instructions, attitude, dependability, personal appearance, initiative, and other areas. Early release from school is a privilege for students who meet all program components. All job sites need to be approved by the instructor prior to the student being released from school.

Acceptance into this program may be granted through an approved application that is signed by your parent and counselor. Applications can be picked up from either the student’s counselor or the Work Experience Department (B615). All applicants are subject to eligibility criteria and/or enrollment limits. Students need to have successfully completed core courses for 9th and 10th grade.

WORLD LANGUAGE

You are eligible to enroll in any of the languages offered by the World Language Department. The languages currently being offered are French, German, Spanish and American Sign Language. College entrance requirements vary from one college to another, with 2 years being the most typical and 3 years of study becoming more common. Continuing to study a world language through third or fourth year (or higher) can increase your likelihood of being able to test out of college classes or test into higher level ones and receive retro college credits. This helps save tuition costs, like AP and post-secondary courses do.

AMERICAN SIGN LANGUAGE I

8510-8511-8512

Elective: 9, 10, 11, and 12
Length of Course: All Year

American Sign Language is a visual, gesture language used by members of the Deaf Community in the United States. ASL I incorporates study of facial expressions, body language, and special orientation. In ASL I you will learn the basic skills necessary to communicate and interact within the Deaf Community. The material presented includes beginning ASL linguistics, Deaf Culture and exposure to Deaf Community members. Active participation is required.

AMERICAN SIGN LANGUAGE II

8513-8514-8515

Elective: 10, 11, and 12
Length of Course: All Year
Prerequisite: Minimum of "C" or above in American Sign Language I

American Sign Language II students will learn new linguistic rules of ASL and more Deaf Culture. Focus is on classifier use in specific areas such as food, homes, and beginning storytelling. Work on pluralization of ASL nouns is presented, as well as opportunities to create ASL poetry. Active participation is required.

AMERICAN SIGN LANGUAGE III or IV

8516-8517-8518

Elective: 10, 11 or 12
Length of Course: All Year
Prerequisite: Minimum of "C" or above in American Sign Language II

ASL III students will be exposed to a variety of deaf, native signers. Students will do more real life projects related to Deaf culture/community. Emphasized are appropriate classifier use, conditional clauses, and ASL storytelling. ASL III and IV will (possibly) be offered together (depending on enrollment numbers). Units of study will alternate each year.

FRENCH I

8620-8621-8622

Elective: 9, 10, 11, and 12
Length of Course: All Year
Prerequisite: None

Thinking about taking French class? French is the official language of over 40 countries and territories and is found on every continent. In French I we will begin speaking, writing, listening, and reading in French in the present tense. There is an emphasis on vocabulary and basic conversational expressions, enhanced through the use of stories, videos, skits, songs, games, jokes, and cultural expressions. *Attention!* If you want to graduate

from Technical High School with world language skills high enough to give you access to university entrance requirements, you are encouraged to enroll your freshman or sophomore year. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

FRENCH II

8625-8626-8627

Elective: 9, 10, 11, and 12
Length of Course: All Year
Prerequisite: Minimum grade of "C" in French I

In French II, we will expand on the conversational skills developed in French I and will be introduced to the past and future tenses. Students will do a variety of activities including projects, acting, literature, art, food, and group activities as we continue to study the French language, cultures, and slang from every continent. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

FRENCH III

8630-8631-8632

Elective: 10, 11, 12
Length of Course: All Year
Prerequisite: Minimum grade of "C" in French II

Finished taking two levels of French and considering a third? Becoming fluent in a foreign language can help you in just about any field. In French III, we will continue enhancing our conversational skills while increasing proficiency in the past, present, and future tenses so as to be able to communicate with native speakers. French III will be conducted almost entirely in French and will place a strong emphasis on culture, government, social issues, and current events in French-speaking nations. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

FRENCH IV

8635-8636-8637

Elective: 11, 12
Length of Course: All Year
Prerequisite: Minimum grade of "C" in French III

Continue improving your French skills in French IV, where we will strive to increase our French language proficiency by actively communicating and applying knowledge to real-life situations. Students who complete level IV should feel confident in their reading, writing, listening, and speaking capabilities. We will learn in detail about various cultural and technological content including photography, art, history, literature, music, and modern civilization. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

GERMAN I

8601-8602-8603

Elective: 9, 10, 11, and 12
Length of Course: All Year

Achtung! If you want to graduate from Apollo High School with world language skills high enough to give you access to university entrance requirements, consider enrolling in German, the native language of the third largest economy in the world. The skills of understanding, speaking, reading and writing German are yours if you are willing to work for them. Vocabulary and conversational expressions are enhanced by the use of stories, skits, videos, games, etc. Students may have the opportunity to host a visitor and spend three weeks in Menden, Germany as a participant in the GAPP exchange program.

GERMAN II

8604-8605-8606

Elective: 9, 10, 11, and 12
Length of Course: All Year
Prerequisite: Minimum grade of "C" in German I

Continue the work you began in German I to gain proficiency in listening, speaking, reading, and writing in German. You will learn more basic vocabulary and grammar and apply your language skills to real-life situations. Cultural information will help you understand and appreciate German speaking people and countries. Students may have the opportunity to host a visitor and spend three weeks in Menden, Germany as a participant in the GAPP exchange program.

GERMAN III/IV

III 8607-8608-8609
IV 8610-8611-8612

Elective: 11, and 12
Length of Course: All Year
Prerequisite: Minimum grade of “C” in German II

Students make the transition from beginner to intermediate level German speakers. We continue to build on your language skills with a focus on historical, geographic, literary and cultural materials. The class is conducted almost entirely in German. German III and IV could be offered together depending on enrollment numbers. In that case, units of study would alternate each year.

SPANISH I

8640-8641-8642

Elective: 9, 10, 11, and 12
Length of Course: All Year

Learn the language that has become one of the most widely spoken languages in the world. 21 countries have Spanish as their official language. Spanish I is an introduction to the Spanish language with emphasis on the development of the basic communicative skills (speaking, listening, reading, writing) and grammatical structures. Students are also introduced to various aspects of Hispanic culture in Latin American countries. In addition, students will learn Spanish through TPR Storytelling, a mixture of reading and storytelling.

SPANISH II

8645-8646-8647

Elective: 9, 10, 11, and 12
Length of Course: All Year
Prerequisite: Minimum grade of “C” in Spanish I

In Spanish II, students will continue on the journey towards proficiency in Spanish. Review and expand upon your Spanish I knowledge through listening, speaking, reading and writing in Spanish. In addition, students will begin to develop cultural awareness of various Spanish-speaking countries. Students will learn to communicate experiences in the past, present and future on a variety of topics. Students will have the opportunity to communicate in real and practical situations. Upon completing the second level, students will have a good foundation for future language study. Students completing Spanish II have the opportunity to travel to a Spanish-speaking country.

SPANISH III - “S2S”

8650-8651-8652

Elective: 10, 11, 12
Length of Course: All Year
Prerequisite: Minimum grade of “C” in Spanish II

This is the year for students to make the transition from a beginning to intermediate level Spanish speaker. Students will continue to build their skills acquired in Spanish I and II. The skills in reading, writing, listening and speaking will continue to be stressed as students participate in Spanish conversations, narrate and read short stories, and interpret authentic materials. Students will continue to learn about the different cultures of Spanish-speaking countries. It is possible to take this course at Apollo and receive college credit through the Senior-to-Sophomore program with SCSU. Ask your teacher for more information.

SPANISH IV - “S2S”

8655-8656-8657

Elective: 10, 11, 12
Length of Course: All Year
Prerequisite: Minimum grade of “C” in Spanish III

Students improve their skills as an intermediate level Spanish speaker. In this course, students will work towards fine-tuning their Spanish proficiency skills in listening, reading, speaking and writing. Class activities will expand your knowledge of vocabulary and advanced grammar concepts while providing opportunities to work with authentic materials and apply language skills to practical situations. The focus of this course will move away from learning *about* the language towards using the language in real life situations. Cultural insights and information will help students to understand and appreciate Spanish-speaking people and cultures. After the fourth level of study, students are very well prepared for college level language courses and may be able to test into more advanced courses. It is possible to take this course at Apollo and receive college credit through the Senior-to-Sophomore program with SCSU. Ask your teacher for more information.

AP SPANISH V

8660-8661-8662

Elective: 11, 12
Length of Course: All Year
Prerequisite: Minimum grade of “C” in Spanish IV

Spanish V is for those students who have successfully completed four years of Spanish, or for those native speakers who wish to continue to work on their language skills. The class is designed to help students acquire an advanced degree of proficiency and fluency in the four skills of language, namely speaking, writing, listening and reading. The course emphasizes the reading of short stories, essays, and selections from longer works, as well as on writing and conversation skills. Grammar will be reviewed and strengthened while students are exposed to a wide variety of authentic literary texts and cultural input that will enable them to not only learn further about the geography, literature and culture of Spanish speaking countries, but also bring their linguistic competence to a new level of development. This course is designed to prepare students for the AP Spanish Language Exam, and students will be able to sign up for the AP Spanish Language Exam in the spring. The teacher will use Spanish almost exclusively in the teaching of this course and students are encouraged to do likewise.

WORLD LANGUAGE AIDE

8800-8801-8802

Elective: 11, 12
Trimesters Offered: 1st, 2nd, and 3rd
Length of Course: One Trimester
Prerequisite: Must have completed at least two years in the language

Help your World Language teacher by tutoring students, assisting in the classroom, correcting student papers and/or helping to develop materials. This course is graded on the Pass/Fail basis and involves a commitment of one hour per day. **The permission of the teacher is required.**