

SALMON RIVER CENTRAL HIGH SCHOOL

2018-19
COURSE
CATALOG

SALMON RIVER CENTRAL SCHOOL



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MESSAGE FROM THE SUPERINTENDENT

Dear students,

Your education is the most formidable tool you have to shape the rest of your life. Up until this point, most of your educational choices have been made for you, but now, the power is in your hands to decide which path is right for you. Choose wisely.

Spend some time with this course catalog. Ask questions about courses that interest you. Form a plan with your guidance counselor. But, above all, pursue the educational opportunities that are right for you.

The administrators at Salmon River Central School District have spent countless hours and much energy to provide you with as many options for courses and pathways as we can. This year, we have added additional AP courses, electives, and core classes. Now more than ever, your choices have the power to shape your own journey.

I know that you have the power and capability to succeed. You have a multitude of school resources to support you, and a team of teachers and staff that are rooting for you. Try your best, work hard, push yourself to achieve your dreams.

May this course catalog provide some guidance as you take the first step in forging your educational path.

Sincerely,

Dr. Stanley J. Harper
Superintendent of Schools
Salmon River Central School District

NEW YORK STATE HIGH SCHOOL GRADUATION REQUIREMENTS

COURSE REQUIREMENTS

REGENTS DIPLOMA

English – 4 credits
Social Studies – 4 credits
Math – 3 credits
Science – 3 credits
Language – 1 credit
Art or Music – 1 credit
Health - .5 credit
Physical Education – 2 credits

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

English – 4 credits
Social Studies – 4 credits
Math – 3 credits
Science – 3 credits
Language – 3 credits
Art or Music – 1 credit
Health - .5 credit
Physical Education – 2 credits

EXAM REQUIREMENTS

REGENTS DIPLOMA

Comprehensive English
Global History and Geography
U.S. History and Government
Integrated Algebra
One Science
One FLACS exam

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

Comprehensive English
Global History and Geography
U.S. History and Government
Integrated Algebra, Geometry, Algebra 2/Trigonometry
Two Science
Two FLACS exams

*** Honors Designation is given to students who have an average of 90 or higher on required Regents exams*

*** Mastery in Math designation can be earned with three Regents exams with individual scores of 85 or higher*

*** Mastery in Science designation can be earned with three Regents exams with individual scores of 85 or higher*

CAREER DEVELOPMENT OCCUPATIONAL STUDIES GRADUATION PATHWAY OPTIONS

The New York State Board of Regents approved an amendment to the Regulations of the Commissioner of Education to establish a Career Development Occupational Studies (CDOS) graduation pathway for all students. Under the new “4+CDOS” pathway option, a student may graduate with a high school diploma if the student meets the graduation course and credit requirements; passes four required Regents Exams (English, math, science, social studies); and meets the requirements to earn the New York State CDOS Commencement Credential. These regulations recognize the importance of extensive research that supports multiple pathways to graduation that connect both work and learning. In addition, work-based learning has become a focus of national discussion to prepare “career and college ready” graduates. Explicit instruction in career development and work-based learning is beneficial to all students as it focuses on a student’s ability to apply classroom learning in the real world, engages them by using authentic tasks, and teaches employability skills. The CDOS graduation pathway emphasizes the importance of this instruction for schools and helps to focus student commitment to career exploration and development.

REQUIRED CARDIOPULMONARY RESUSCITATION (CPR) AND AUTOMATED EXTERNAL DEFIBRILLATORS (AED) TRAINING

New regulations require that all students complete hands-on instruction in CPR and AEDs at least once between grades 9-12 prior to graduation. The standards for such instruction must be based on a nationally recognized instructional program that utilizes the most current guidelines for CPR and emergency cardiovascular care issued by the American Heart Association or a substantially equivalent organization and be consistent with the requirements of the programs adopted by the American Heart Association or the American Red Cross. Students will be able to: recognize the signs of possible cardiac arrest and call 911, provide an opportunity to demonstrate the psychomotor skills necessary to perform hand-only CPR, and provide awareness in the use of an AED.

CAREER PATHWAY OPTIONS

Salmon River High School is pleased to offer the following Career Pathway course options for students. We encourage students to explore one of our pathway options as they create their individual plans for college and career preparation.

Business Management

Computer Applications (.5 credit)
Career & Financial Management (.5 credit)
Business Math (1 credit)
Accounting (1 credit)
Entrepreneurship (.5 credit)
Marketing (.5 credit)
Business Law (.5 credit)

Information Technology

Computer Applications (.5 credit)
Career & Financial Management (.5 credit)
Graphic Design (1 credit)
Online Applications (.5 credit)
Entrepreneurship (.5 credit)
Business Communications (.5 cr.)
Computer Informational Systems (1 credit)

Visual Art

Studio Art (1 credit)
Drawing & Painting (1 credit)
Advanced Drawing & Painting (1 credit)
2 Art Electives (2 credits)

ATV/Ag/Automotive Mechanics

ATV/Ag. Mechanics (1 credit)
Automotive Repair (1 credit)
Welding/Metalworking (1 credit)
Advanced Metals & Machining (1 credit)
Career & Financial Management (.5 credit)
1 Technology Elective

Technical & Pre-Engineering

Drawing & Design for Production (1 credit)
Principles of Engineering (1 credit)
Computer Aided Machining (1 credit)
Architectural Drawing (1 credit)
Career & Financial Management (.5 credit)
1 Technology Elective

Skilled Trades Welding & Fabrication

Drawing & Design for Production (1 credit)
Welding/Metalworking (1 credit)
Advanced Metals & Machining (1 credit)
Residential Construction (1 credit)
Furniture & Cabinet Design (1 credit)
Career & Financial Management (.5 credit)

Woodworking/Carpentry

Drawing & Design for Production (1 credit)
Woodworking (1 credit)
Furniture & Cabinet Design (1 credit)
Residential Construction (1 credit)
Architectural Drawing (1 credit)
Career & Financial Management (.5 credit)

Agriculture Pathway

Environmental Science (1 credit)
Agribusiness (.5 credit)
Renewable Energy (1 credit)
ATV/Ag. Mechanics (1 credit)

SUNSET NIGHT HIGH SCHOOL

The Sunset Night School is designed for students who are struggling to meet New York State Graduation Requirements and can benefit from specialized, personal education after typical school hours.

Through this program, every student is empowered to succeed. The curriculum is tailored to each individual student's needs. If you feel this program is right for you, please contact Sheila Tremblay (518) 538-6620.

BOCES PROGRAMS

Automotive Technology

Auto tech is a training program that prepares students for an entry-level position in the field of automotive repair or continuing education at a technical college. Students will develop a broad understanding of the scientific principles of the various systems used in the automobile and light truck. Training is in the areas of diagnosis, repair, and preventative maintenance.

Building Trades

Students enrolled in building trades will gain an understanding of the basic theories of carpentry, using the tools and equipment of the trade. They will then apply these theories to lab projects coupled with hands-on experience either in the classroom or at an off campus construction site during their two years of study.

Cosmetology

Cosmetology is a demanding career that requires a wide range of skills. Artistic ability as well as technical and communication skills are critical to success. Throughout the two-year program, we focus on learning the latest techniques in haircutting, perming, coloring, hairstyling, nail care and skin care. Students also develop computer management and employability skills that will give them an edge when entering the workforce. The students spend time working in a real salon environment with clients from the community. Additionally, time is spent reviewing New York State Cosmetology Board procedures necessary for obtaining a license.

Culinary Arts

Culinary arts students receive meaningful exposure to food preparation and service in the areas of hot and cold food production, baking and pastry arts, as well as table service and dining room management. Students gain valuable experience by preparing a daily menu offered to the staff and students. The conference room and dining room provide students with an opportunity to plan, prepare and serve customers for the many catered events in the building.

Electrical Trades

The electrical trades program provides instruction on the theory and principles of electricity. On-site activities include hands-on installation, maintenance, troubleshooting and repair of residential and commercial electrical wiring systems.

Heavy Equipment

The heavy equipment repair and operation program's main emphasis is the operation of equipment. This includes the bulldozer, backhoe, front-end loader, excavator, motor grader, dump truck, and trailer. The program includes theory and hands-on experience in these areas. The students learn basic principles of the diesel engine as well as preventative maintenance of the equipment. The class includes a unit on welding and fabrication.

Health Occupations

The goal of this course is to acquaint the high school student with a true picture of the health occupations that are available. Basic entry-level skills are taught for a variety of health occupations. The student will be introduced to these skills via classroom and clinical experience.

BOCES PROGRAMS

Early Childhood Education

The early childhood education class is a two-year program that focuses on the development and education of children from birth to school age. This program is designed for students who are interested in careers in early childhood education and related fields. Students participate in hands-on placement experiences where they demonstrate theory knowledge by educating and caring for young children. First aid and CPR training are key components in the child safety unit.

HVAC

Students who enter the HVAC program will be exposed to entry level skills in heating, ventilation, air conditioning, refrigeration and plumbing. The entire offering will encompass two years of study.

The first year focuses on safety, tools, blue print reading, pipefitting and piping practices, soldering and brazing, sheet metal and duct fabrication, design and installation of heating and cooling systems, gas and oil furnaces and burners, boilers, and radiant in-floor heating systems, basic electricity, control circuits, customer relations, employability and job-seeking skills.

The second year will focus on refrigeration systems, air conditioning systems, motors, motor controls, electromagnetic controls, plumbing tools, water distribution systems, plumbing drainage and venting, fixtures and faucets, commercial plumbing, and blueprint reading.

Welding

Students entering the welding technology program will be eligible for multiple certifications, encompassing two years of study.

The first year focuses on safety, surface preparation, tool usage, blueprint reading, metallurgy, oxy fuel gas welding, employability skills, plasma arc cutting, gas tungsten arc welding, gas metal arc welding, shielded metal arc welding, flux core arc welding, metal fabrication, artistic design, budgeting, and professional development...

The second year of study will prepare students through hands-on fieldwork through an integrated advanced curriculum for several certifications in the field of welding technology and metalworking.

New Visions Coding and Gaming

This is a perfect program for students who have a desire to pursue a career in Computer Programming and/or the Gaming field. FEH BOCES are offering a one-year course of instruction in the process of designing and coding programming logic for games, including game rules, mechanics, and simulations, to create and complete modules and game experiences. Students learn the fundamentals of programming, design, and production of modern gaming systems. Students will have access to a laptop computer, remote server access, and an on-line classroom environment in addition to classroom instruction. Students must have taken Algebra and Geometry and maintain a minimum 85 average.

New Visions Law & Government

This program is an academically rigorous program for college-bound seniors who plan to major in pre-law, political science, or criminal justice. New Vision students learn to work in a professional setting alongside lawyers, court officials, law enforcement, and a wide range of other legal professionals. The academic curriculum is combined with an experiential rotation to provide students with a rich and rewarding learning opportunity.

New Visions Health Careers

In Today's fast-paced healthcare industry there are many highly skilled and specialized positions. The New Vision program lets students experience many of these positions hands-on. The North Franklin Educational Center through the New Vision course offers high school seniors the opportunity to have on-site hospital experience at the Alice-Hyde Medical Center in Malone. This experience will help students make important career decisions about health care positions, assisting them as they pursue a college education.

ENGLISH LANGUAGE ARTS

English 9

Grade Level: 9

Prerequisite: Successful completion of English 8

Credit: 1

The curriculum for this course is an adaptation of the New York State Common Core standards for English Language Arts. Students will read texts from a variety of genres and will demonstrate their understanding through various types of writing. Anchor texts for the course include *The Odyssey* by Homer and *Romeo and Juliet* by William Shakespeare. The objective of the course is to begin preparing students for the skills necessary to succeed in higher level ELA courses as well as the Common Core English exam in eleventh grade. Students will also read independently from a variety of self-selected genres to meet quarterly book goals. The course will incorporate no less than one cross-curricular project per school year. The curriculum is designed to prepare students for a variety of careers as effective reading, writing, and communication are all skills sought after in almost all fields.

English 10

Grade Level: 10

Prerequisite: Successful completion of English 9

Credit: 1

Students will begin the year by reading a “Chills & Thrills” short story unit focusing on literary terminology and a culminating creative writing horror story to be read in the school basement during the Halloween season. For the second marking period, students will do an in-depth author study of John Steinbeck, referencing both the written work and the cinema, with a focus on style. During the third marking period, students will read and write focusing on cultural diversity; for the final marking period, students will research different topics of WWII and the Holocaust as a cross-curricular unit with social studies. They will also read the memoirs of a Holocaust survivor focusing on the aspects of non-fiction.

English 11

Grade Level: 11

Prerequisite: Successful Completion of English 10

Credit: 1

English 11 will prepare students to successfully complete the English Regents in June of their junior year. Successful completion of the English Regents is a requirement for graduation. Students will continue to fine tune skills that have been previously taught in English 9 and 10. They will read informational texts and fictional works to help prepare them to successfully pass the June exam. They will also write essays that are a requirement of the Regents exam.

English 9 Honors

Grade Level: 9

Prerequisite: Completion of English 8 with a grade of 85 or higher, teacher recommendation

Credit: 1

The curriculum for this course is an adaptation of the New York State Common Core standards for English Language Arts. Students will read texts from a variety of genres and will demonstrate their understanding through various types of writing. Anchor texts for the course include *The Odyssey* by Homer and *Romeo and Juliet* by William Shakespeare. The objective of the course is to begin preparing students for the skills necessary to succeed in higher level ELA courses as well as the Common Core English exam in eleventh grade. The honors section varies from English 9 with the inclusion of more collaborative classwork and more independent and self-directed study in various units. Students will also read independently from a variety of self-selected genres to meet quarterly book goals. The course will incorporate no less than one cross-curricular project per school year. The curriculum is designed to prepare students for a variety of careers as effective reading, writing, and communication are all skills sought after in almost all fields.

English 10 Honors

Grade Level: 10

Prerequisites: Completion of English 9 with a grade of 85 or higher, teacher recommendation

Credits: 1

Students will begin the year by reading a “Chills & Thrills” genre short story/poetry unit focusing on literary terminology, dialogue, tone and mood with a culminating creative writing horror story to be read in the school basement during the Halloween Season. For the second marking period, students will do an in-depth author study of John Steinbeck, referencing both the written work and the cinema with a focus on style. For the third marking period, honors students will focus on drama, reading and writing and acting out scripts for plays, commercials, movies, and documentaries. For the final marking period, students will research different topics of WWII and the Holocaust as a cross-curricular unit with social studies. They will write a MLA-formatted research paper and learn all the rules about plagiarism to begin preparing them for college. They will also read the memoirs of a Holocaust survivor focusing on the aspects of non-fiction.

ENGLISH LANGUAGE ARTS

English 12

Grade Level: 12

Prerequisite: Successful completion of English 11

Credit: 1 credit

The purpose of this course is to prepare students for the world beyond high school, whether that consists of college, prep school, trade school, or employment. To that end, students compose a variety of writing pieces including a college application essay, a résumé and cover letter, and a research paper. Additionally, students compose critical analyses of the following genres: memoir, historical fiction, drama, and world literature.

Student choice allows for differentiated instruction in English 12 leading to skill development that best meets individual needs based on a variety of college and career paths. Student work may include scientific writings and STEM based presentations, musical and artistic performances and analyses, speeches for information or persuasian, and interdisciplinary research.

AP Seminar

Grade Level: 10 or 11

Prerequisite: none

Credit: 1 credit

This is a foundational course that engages students in cross-curricular conversations that explore the complexitites of academic and real-world topics and issues by analyzing divergent perspectives. Students will learn to analyze all types of information with accuracy in order to craft and communicate evidence-based arguments.

AP Research

Grade Levels 11 or 12

Prerequisite: AP Seminar

AP Research allows students to deeply explore an academic topic, problem or issue of individual interest. Through this exploration, students design and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills gained in the AP Seminar course by understanding research methodology, employing ethical research practices: and accessing, analyzing, and synthesizing information as they address a research question. Students will explore their skill development, document their processes, and collect the artifacts for the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4,000-5,000 words and a presentation with an oral defense.

English 11 Honors

Grade Level: 11

Prerequisite: Completion of English 10 with a grade of 85 or higher, teacher recommendation

Credit: 1

English 11 will prepare students to successfully complete the English Regents in June of their junior year. Successful completion of the English Regents is a requirement for graduation. Students will continue to fine tune skills that have been previously taught in English 9 and 10. They will read informational texts and fictional works to help prepare them to successfully pass the June exam. They will also write essays that are a requirement of the Regents exam. Honors English does require extra reading time and students should be prepared to read independently.

AP English Literature and Composition

Grade Level: 12

Prerequisite: English 11 Honors, Summer Reading Project, 85+ on Common Core English Exam

Credit: 1 credit

Advanced Placement English is a college level course in literature and composition. AP Literature students will read literature from diverse authors to enhance their understanding of the methods writers employ to contribute to a reader's edification and reading enjoyment. Students will read and analyze literature from the 16th through the 21st century. As writing is a fundamental aspect of the course, students will compose writing that is expository, analytical, and argumentative. Such writing serves not only to demonstrate students' understanding of selected literature and authors, but also to enhance their appreciation of literature as an art. Students must maintain a minimum average of 85 for the duration of the course (adapted from AP Central's English Literature and Composition Course Description).

Students who complete AP English advance toward higher education at various four-year colleges and universities and are prepared to study in many different areas.

SOCIAL STUDIES

Global History and Geography I

Grade Level: 9

Prerequisite: Successful completion of Social Studies 8

Credit: 1

Global History and Geography 9 is a chronologically-based course leading to a Regents exam at the end of the 10th grade, which must be passed for graduation credit. New York State Education Department mandated curriculum includes the following units of study: Introduction to Global History, Ancient World: Civilizations and Religions (4000 B.C.-500 A.D.), Expanding Zones of Exchange and Encounter (500-1200), Global Interactions (1200-1650), The First Global Age (1450-1770). This course will incorporate no less than one cross-curricular project per school year. The curriculum is designed to prepare students for a variety of careers including, analyst, archivist, broadcaster, campaign worker, consultant, public relations, journalist, etc.

Global History and Geography II

Grade Level: 10

Prerequisite: Successful completion of Global History and Geography I

Credit: 1

This is the second course in the required two-course sequence in global history and geography. When you have completed this course, you will take the Global History and Geography New York State Regents Examination. Remember, the exam contains material from both 9th and 10th grade Global History. YOU MUST PASS THIS TEST in order to graduate from high school. To prepare you for this important test you will be required to write a great deal in this course, as the exam contains a substantial amount of essay writing. Units of study include: The Age of Revolution, A Half Century of Crisis and Achievement (1900-1945), The 20th Century since 1945, Global Connections and Interactions.

Global History and Geography I Honors

Grade Level: 9

Prerequisite: Completion of Social Studies 8 with an average of 85 or higher, teacher recommendation

Credit: 1

For the honors section of this course, students will cover the same material presented in the general level of the course. However, students in the honors section will delve deeper into topics, assignments will be at a higher level and more involved, and this section will involve more writing. This course will incorporate no less than one cross-curricular project per school year. The curriculum is designed to prepare students for a variety of careers including, analyst, archivist, broadcaster, campaign worker, consultant, public relations, journalist, etc.

Global History and Geography II Honors

Grade Level: 10

Prerequisite: Completion of Global History and Geography I with an 85 or higher, teacher recommendation

Credit: 1

For the honors section of this course, students will cover the same material presented in the general level of the course. However, students in the honors section will delve deeper into topics, assignments will be at a higher level and more involved, and the pace of the course will be quicker.

Projects will be text based assignments relating to the New Vision curriculum, preparing students for the new examination in Global History. Multimedia projects will encompass the study of WWI and WWII. In-depth analysis of multimedia resources will be explored around such topics as Pacifism and human rights violations. Students will complete this course to proceed to US History and Government, completing their 4 units in social studies.

SOCIAL STUDIES

AP US History

Grade Level: 11 or 12

Prerequisite: Students must be recommended by their 10th grade social studies teacher, receive an 85% or above on the Global 10 Regents Exam and an 85% or above in the Global 10 class.

Credit: 1

The AP US History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas, the AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In May of each year, students will take the AP exam. Depending on their score, students could receive college credit for two-semesters of study in U.S. History.

Economics

Grade Level: 12

Prerequisite: None

Credit: ½

The study of economics, perhaps more than any other social science, will have a significant and long-term impact on the lives of students. Throughout their lives, students will encounter various economic concepts, principles and issues. From personal income and property taxes to automobile loans to retirement investments, students will need to apply the basic economic concepts, understandings, and skills included in this class. An understanding of basic economic resources, scarcity, and economic growth will enable student to analyze local, state, national, and international economic questions and issues. (adapted from NYSED)

US History and Government

Grade Level: 11

Prerequisite: Completion of Global History and Geography I with an 85 or higher, teacher recommendation

Credit: 1

For the honors section of this course, students will cover the same material presented in the general level of the course. However, students in the honors section will delve deeper into topics, assignments will be at a higher level and more involved, and the pace of the course will be quicker.

Economics Honors

Grade Level: 12

Prerequisite: An average of 85 or higher in US History and Government, teacher recommendation

Credit: ½

Honors economics is a class that explores both micro and macro-economics in one semester.

Students are introduced to college level discussion topics and the application of economics in varying projects. Focus on real time economic and decisions made by policy makers will drive classroom discussions and activities. Students will be challenged in a fast paced introductory course in college economics. The study of economics, perhaps more than any other social science, will have a significant and long-term impact on the lives of students. Throughout their lives, students will encounter various economic concepts, principles, and issues. From personal income and property taxes to automobile loans to retirement investments, students will need to apply the basic economic concepts, understandings, and skills included in this class. An understanding of basic economic concepts such as supply and demand, opportunity costs, recession, the business cycle, resources, scarcity, and economic growth will enable students to analyze local, state, national, and international economic questions and issues.

SOCIAL STUDIES

Native Studies

Grade Level: 9-12

Prerequisite: None

Credit: 1

This class is a foundations course for Haudenosaunee culture and history. Students will study the four core Haudenosaunee teachings including Creation Story, Clans, Ceremonies, and Great Law. Students will explore Haudenosaunee history leading up to contemporary issues faced today. We have special presentations by community resource people throughout the year who will share their knowledge on a particular area of Haudenosaunee culture and history.

Native Film

Grade: 9-12

Prerequisite: None

Credit: 1

Students will begin by investigating common stereotypes of Native Americans in mass media, literature and film. They will critique and analyze films of various genres. Native film also offers hands-on experience with all aspects of video production. Students will produce both individual short films and group projects. Students will operate HD video cameras, lighting and sound equipment as well as editing software, Final Cut Pro X. The best student work will be showcased in an annual film festival.

Participation in Government

Grade Level: 12

Prerequisite: None

Credit: ½

The 12th grade is a critical stage of citizenship, preparation and civic reengagement. Typically viewed as the student's last year of high school, occasionally dismissed as a time when it is "too late to learn"; the 12th grade is actually the student's "commencement grade", and for good reason. The 12th grade is not the end but a beginning in which the student begins to think about entering a new life beyond the schoolhouse door. An important part of this preparation is the ability to synthesize and apply—to put things together, take stock, and apply knowledge to the real world.

Government Honors

Grade Level: 12

Prerequisite: An average of 85 or higher in US History and Government, teacher recommendation

Credit: 1

Simulated, project-based activities will drive the honors government class. Current issues and the effects on the citizenry and governance of specific areas will be explored. Students will also be responsible for college level writing and reading. The 12th grade is not the end but a beginning in which the student begins to think about entering a new life beyond the schoolhouse door. An important part of this preparation is the ability to synthesize and apply—to put things together, take stock, and apply knowledge to the real world. The culminating social studies course for Standard 5, Participation in Government, can provide a critical teaching moment in this process in which the student is expected to learn, see, and practice citizenship in action.

This Participation in Government class provides students with a capstone experience, enriched by active learning opportunities, that enables students to synthesize, apply, and thereby reinforce the civics knowledge, skills, concepts, themes, and dispositions of active citizenship
(adapted from NYSED)

AP Comparative Government and Politics

Grade Level: 12

Prerequisites: An Average of 85 or higher in US History and Government, teacher recommendation

This course introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures, policies, and political, economic, and social changes among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues. AP Government and Politics is designed to be the equivalent of a one-semester introductory college or university course. Students will take a 2 hour and 25 minute long exam in May.

MATHEMATICS

Algebra I Common Core

Grade Level: 8-9

Prerequisite: Students should earn a 3 or 4 on the NYS Math Assessment, teacher recommendation

Credit: 1

Students will cover the following topics: seeing structure in expressions, arithmetic with polynomials and rational functions, creating equations, reasoning with equations and inequalities, and mathematical practices. This is a rigorous curriculum which will challenge students daily to better prepare themselves to be college bound. In this course students will create posters with mathematical information to be displayed for the year. There will also be projects based on graphing many different types of equations and functions. Students must pass the Regents exam at the end of the course to meet NYS graduation requirements.

Algebra IA Common Core

Grade Level: 9

Prerequisite: Students must have successfully completed grade 8 math

Credit: 1

This course will cover units 1-6 of the 11 units included in the Algebra I curriculum. These units include: The Building Blocks of Algebra; Linear Expressions, Equations, and Inequalities; Functions; Linear Functions and Arithmetic Sequences; Systems of Linear Equations and Inequalities; Exponents. Upon successful completion of this course, students will continue on to the Algebra IB portion of the course where they will take the Regents exam necessary for graduation.

Algebra IB Common Core

Grade Level: 10

Prerequisite: Successful completion of Algebra IA

Credit: 1

This course will cover units 7-11 of the Algebra I curriculum. These units include: Polynomials; Quadratic Functions and Their Algebra; Roots and Irrational Numbers; Statistics; Final Look at Functions and Modeling. In this course students will create posters with mathematical information to be displayed for the year. Students will also use a variety of online instruction materials and software. Students will take the Algebra I common core regents exam which is required for graduation.

Geometry Common Core Honors

Grade Level: 9

Prerequisite: Completion of Algebra I Common Core, teacher recommendation

Credit: 1

This course covers the same topics as Geometry Common Core. However, topics are covered in more depth and with a higher level of understanding. Students must pass the Regents exam at the end of this course to earn a Regents Diploma with Advanced Designation.

Geometry Common Core

Grade Level: 10

Prerequisite: Completion of Algebra I Common Core

Credit: 1

This course will cover the following topics of Geometry: congruence; similarity, right triangles, and trigonometry; circles; expressing geometric properties with equations; geometric measurement and dimension; modeling with geometry, and mathematical practices. Students must pass the Regents exam at the end of this course to earn a Regents Diploma with Advanced Designation.

MATHEMATICS

Geometry A Common Core (year 1 of a 2 year stretch Geometry)

Grade Level: 10 or 11

Prerequisite: Completion of Algebra I Common Core

Credit: 1

This course covers selected topics from Modules 1-3 of the Geometry Common Core curriculum. It will cover: circles, expressing geometric properties with equations, geometric measurement and dimension, and congruence. Students who are interested in completing the Geometry Regents exam will need to continue on to the B section of this course.

Geometry B Common Core (year 2 of a 2 year stretch Geometry)

Grade: 11 or 12

Prerequisite: Successful completion of Geometry A Common Core.

Credit: 1

This course will cover the final topics of the Geometry Common Core curriculum not covered in the A portion of the course. These topics will include: similarity, right triangles, trigonometry, modeling with geometry, and mathematical practices. This course will conclude with the Geometry Common Core Regents exam.

College Pre-Calculus

Grade: 11th grade Honors Students or 12

Prerequisite: Successful completion of Algebra I Common Core, Geometry Common Core, and Algebra 2/ Trigonometry

Credit: 1

This course is a continuation of mathematical topics that include mathematical modeling, functions, linear, quadratic, and polynomial applications with graphing, exponential and logarithmic functions, analytic geometry and trigonometry. This course also introduces limits and derivatives to prepare for Calculus. Students will develop the ability to perform algebraic operations on functions, including, sum, difference, product, quotient, and compositions, and subsequent applications. Students will develop the ability to interpret and evaluate limits. Students will be challenged to think outside of the box and further their mathematical limits. Students will have the opportunity to earn North Country Community College credits for this course.



MATHEMATICS

Algebra 2/Trigonometry

Grade: 11 or 12

Prerequisite: Successful completion of Algebra I Common Core and Geometry Common Core

Credit: 1

This course is the capstone course of the three units of credit required for a Regents Diploma with Advanced Designation. It is a continuation and extension of the two courses that preceded it. While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Within this course, the number system will be extended to include imaginary and complex numbers. The families of functions to be studied will include polynomials, absolute value, radical, trigonometric, exponential and logarithmic functions. Problem situation involving direct and indirect variation will be solved. Problems resulting in systems of equations will be solved graphically and algebraically. Algebraic techniques will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms.

Data analysis will be extended to include measures of dispersion and the analysis of regression that model functions studied throughout this course. Associated correlation coefficients will be determined, using technology tools and interpreted as a measure of strength of the relationship. Arithmetic and geometric sequences will be expressed in multiple forms, and arithmetic and geometric series will be evaluated. Binomial experiments will provide a basis for the study of probability theory and the normal probability distribution will be analyzed and used in approximation for these binomial experiments. Right triangle trigonometry will be expanded to include the investigation of circular functions. Problem situation requiring the use of trigonometric equation and identities will also be investigated. Student will sit for a NYS Regents Exam which is required for the Regents Diploma with Advanced Designation.

Algebra 2/Trigonometry Honors

Grade: 10th grade Honors Students

Prerequisite: Successful completion of Geometry Common Core Honors, teacher recommendation

Credit: 1

This course will cover the same curriculum as the Algebra 2/ Trigonometry course. However, material will be covered at a quicker pace and more in depth.

AP Calculus

Grade: 12

Prerequisite: Successful completion of College Pre-Calculus

Credit: 1

AP Calculus is designed to develop mathematical knowledge conceptually, guiding students to connect topics and representations, and to apply strategies and techniques to accurately solve diverse types of problems. The curriculum is equivalent to that of a first semester college calculus course. This course is offered for college credit through North Country Community College (MAT 240V, Calculus 1, 4 credits).

SCIENCE

Living Environment

Grade: 9

Prerequisite: Successful completion of Science 8

Credit: 1

Living Environment is a Regents-level Biology course which explores a diverse range of topics concerning the concept of life. Beginning with how all living things can share certain characteristics and yet still be very different from each other, the course will also examine the basis of heredity, cell division, evolution, ecology, human systems, impact of humans on ecosystems, and metabolic activities. As a Regents-level Biology course, The Living Environment includes a laboratory component. To be eligible to take part in the Regents examination at the end of the year, students enrolled in the course must meet the laboratory requirements set forth by New York State. Lab will include scientific inquiry, observation, measurement, microscopy, and other assorted lab skills.

Earth Science Honors

Grade Level: 9, 10

Prerequisites: Successful completion of Living Environment, teacher recommendation

Credit: 1

This class is the same as regular Earth Science, however it will go into greater depth on the same topics.

AP Environmental Science

Grade Level: 9, 10

Prerequisites: Successful completion of Living Environment and Earth Science

Credit: 1

The AP Environmental Science course is interdisciplinary and focuses on the following themes: science is a process, the Earth itself is one interconnected system, humans alter natural systems, environmental problems have a cultural and social context, human survival depends on developing practices that will achieve sustainable systems.

Earth Science Honors

Grade Level: 9, 10

Prerequisites: Successful completion of Living Environment, teacher recommendation

Credit: 1

This class is the same as regular Earth Science, however it will go into greater depth on the same topics.

Earth Science

Grade Level: 10

Prerequisites: Successful completion of Living Environment

Credit: 1

This is a one year course designed to introduce students to the study of the Earth upon which they live. Earth Science can be thought of as the operation manual for our planet, Earth, much like there are operation manuals for cars or other complicated equipment. As Tom McGuire says, "If we intend to live on this planet... we really do need to understand how it works." Earth Science is the study of Earth's systems and its location in the universe. This definition includes most of the physical world. Earth Science can be divided into three areas of study including:

1.1 Astronomy – the study of the motions of the planet Earth and the other objects in space.

1.2 Meteorology-Weather-Climate - the study of the changing conditions of the atmosphere or weather

1.3 Geology - the study of the solid Earth

The ideas presented in the course increase students' knowledge of the physical world the live in, including the pressing environmental issues of the planet, and how to integrate this information into their lives and prepare them for the difficult decisions they must make as future citizens. Human's future existence on the Earth and in space will depend on these decisions. This class will provide students with a foundation to make those decisions. Students are scheduled for one full period per day and one lab period every other day.

AP Psychology

Grades 11 and 12

Prerequisite: None

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. In May , students will take the AP Exam and depending on their score, they could receive college credit.

SCIENCE

General Chemistry

Grade: 11 or 12

Prerequisite: Successful completion of Living Environment, Earth Science and Algebra I Common Core.

Credit: 1

Designed mainly for all high school students who are searching for three science credits to fulfill their requirement for graduation, this course will enable the students to solve problems and answer questions relating to several topics in Chemistry. This course includes lectures and lab demonstrations. Students will be expected to study a selection of topics in introduction to chemical principles emphasizing on chemical applications to technology and the impact of chemistry on society. There are no lab requirements nor regents exam.

Honors Chemistry

Grade: 10th Grade Honors Students, 11

Prerequisite: Successful completion of Living Environment, Earth Science, Algebra I Common Core and teacher recommendation.

Credit: 1

The Honors Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. This class includes lectures, laboratory experiments and research projects. Students are introduced to chemistry with emphasis on the important principles and facts necessary for comprehension of the structure of matter, the chemical action of common elements and compounds, and basic chemical calculations. College credit can be earned for this course. Students grade 11 and higher may earn North Country Community College credit for this course.

AP Biology

Grade: 11 or 12

Prerequisite: Successful completion of Living Environment, Earth Science, and Chemistry

Credit: 1

Scientific discoveries and research are continually expanding scientific knowledge. The model of instruction in this course focuses on enduring, conceptual understandings and the contact that supports them. Students spend less time on factual recall and more time on inquiry-based learning of essential concepts.

Regents Chemistry

Grade: 11 or 12

Prerequisite: Successful completion of Living Environment, Earth Science and Algebra I Common Core

Credit: 1

This course will prepare students well for the New York State Chemistry Regents Exam. It also eases students' transformation to college life by preparing them well for their first two semesters of general education. Designed for students who are interested in going to college right after high school graduation, this course will help them to be college-ready in terms of Chemistry. It is the study of the components of matter and how these components behave and interact with each other. This class includes lectures, laboratory experiments and research projects.

Physics

Grade: 11th grade Honors Students, 12

Prerequisite: Successful completion of Algebra 2/ Trigonometry

Credit: 1

Regents Physics is a non-calculus based introductory Physics course. The main focus of this course is the development of conceptual understanding of basic concepts in Physics as well as problem solving skills. The final exam for this course is the NYS Physics Regents in June. You must also meet the Regents Lab requirements of 1200 minutes of laboratory experiences with successfully completed reports, in order to be eligible for the Regents examination in June. Topics Covered – Measurement and Mathematics, Mechanics, Energy, Electricity and Magnetism, Waves, Modern Physics

LANGUAGE

French I/Spanish I

Grade Level: 8-9

Prerequisite: None

Credits: 1

Students learn to create more in-depth questions, use direct objects and indirect objects, and expand vocabulary. In addition to using the present tense, they will learn to speak in the past and simple future in a limited manner. This new grammar will be learned while simultaneously deepening student's ability to discuss relevant topics. Students will continue to develop listening and reading comprehension and work to develop speaking and written proficiency in situational context. Students will continue cultural awareness and understanding. New York State requires students to obtain the skills necessary for basic communication in a secondary language. Proficiency Exam is given at the end of year.

French II/Spanish II

Grade Level: 9-10

Prerequisites: Successful completion of Level I and the NYS Proficiency exam in the target language.

Credits: 1

The students will review grammar of level 1 and will be able to narrate past events as well as talking about future events. Students will expand their vocabulary. Emphasis is placed on developing reading, listening, writing and other speaking skills in preparation for next year's Regents exam. Students will continue cultural understanding of other countries.

French III/Spanish III

Grade level: 10-11

Prerequisites: Successful completion of Level II course in the target language

Credits: 1

The students will review grammar of level 2 and explore most remaining verb tenses. These verb tenses allow students to express hopes, wishes, opinions, hypothesis, and other abstract concepts. Students will use more advanced vocabulary and delve into more complex grammatical structures. Emphasis is placed on extending reading, listening, writing and speaking skills for the Regents Exam at the end of the year. Students will continue cultural understanding of other countries.

FRE 201- Intermediate French/ SPA 201- Intermediate Spanish

FRE 201- Intermediate French/ SPA 201- Intermediate Spanish

Grade Level: 11 & 12

Pre-requisite: Successful completion of French III/Spanish III, 85 or above on Level III Regents Exam and 90 or above final average in Level III class is strongly recommended.

Credit: 1

This full year language course enables students to build upon their understanding of grammatical concepts and knowledge of vocabulary to create more complex speaking, writing, listening, and reading structures. Listening comprehension and speaking will be stressed. Culture, history, and customs of French and Spanish countries will be studied. Students may receive college credit for this course through North Country Community College for a nominal fee.

LANGUAGE

Mohawk I

Grade Level: 8-9

Prerequisite: None

Credit: 1

This course provides students with the opportunity to learn functional Mohawk in everyday contexts. The focus of learning is how nouns and verbs attach pronouns to their root forms. The students will learn forty useful and productive verbs along with noun vocabularies which will highlight the verbs learned. Students are given the opportunity to hear Mohawk sounds and learn the English sounds that correspond with them.

Mohawk III

Grade Level: 10-11

Prerequisites: Successful completion of Mohawk II

Credit: 1

Students will review grammar from Mohawk II and explore most of the remaining verb tenses. These verb tenses allow students to express hopes and other abstract concepts. Emphasis is placed on developing reading, writing and speaking skills. Students will also explore culture from other countries.

Mohawk II

Grade Level: 10-11

Prerequisites: Successful completion of Mohawk 1 and the FLACS exam.

Credit: 1

Students will review grammar of Mohawk I and explore future and past verb tenses. Students will expand their vocabulary. Emphasis is placed on developing reading, listening, writing and other speaking skills in preparation for the level III Regents exam. Students will continue cultural understanding of other countries.

Mohawk IV

Grade Level: 11-12

Prerequisites: Successful completion of Mohawk III

Credit: 1

This course provides students with the opportunity to be functional Mohawk speakers. The focus of learning is to develop the ability to carry on a conversation in the Mohawk language. The Mohawk writing system is learned in this level for students who are able to read Mohawk. There are twenty themes that are covered along with exercises that will encourage the students to write creatively. The other focus is on the culture of the Mohawk people and history.



FINE ARTS & MUSIC

Studio Art

Grade 9-12

Prerequisite: None

Credits: 1

Studio in Art is an introduction to the high school art program designed to help the student discover why and how art is made. Aesthetics, art criticism, and art history are integrated with the development of concepts based on the elements of art and principles of design. Two-dimensional activities may include drawing, painting, printmaking, collage and lettering using a variety of media. Additionally, three-dimensional design projects using clay, plaster, and wire as media will be constructed.

Drawing & Painting

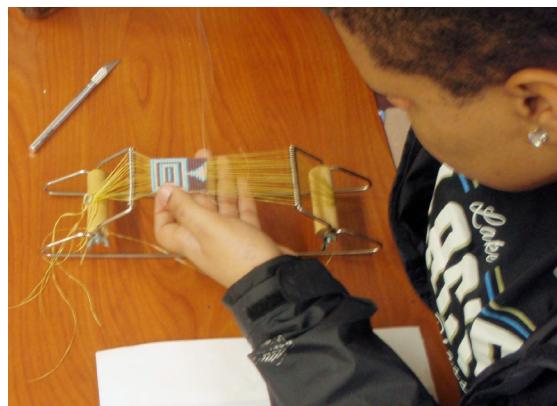
Grade 9-12

Prerequisite: Studio Art

Credits: 1

Drawing and Painting is a studio course in which painting and drawing projects are assigned to develop technique, explore ideas, consider historical contexts and discover personal strengths and interests. Students will use a variety of drawing and painting mediums and apply their knowledge of the elements and principles of design to their work in studio and art criticism.

The student is expected to begin the process of developing a portfolio for possible admission to college or art school.



3D Design/Sculpture

Grade 10-12

Prerequisite: Studio Art

Credits: 1

3D Design/Sculpting is the Studio in Sculpture course. The student will be introduced to a variety of sculpting materials, processes, and concepts. Studio experience will include carving, modeling, and casting and will use subtractive and additive techniques with both representational and non-objective content. Clay, plaster, paper and found objects will be among the materials explored using the elements and principles of design as applicable to three-dimensional art. The student will study sculpture by masters of the past and present.

Advanced Drawing & Painting

Grade 10-12

Prerequisite: Drawing & Painting

Credits: 1

Advanced Drawing & Painting is a course designed for the student artist who is looking to develop a portfolio for continuing art at the college level. In many cases, students' specific interests and goals are considered in development of course projects. Self-motivated student artists in this course are required to keep a sketchbook and take an active role in developing and presenting a final portfolio of their work that portrays their individual strengths.

Ceramics

Grade 9-12

Prerequisite: Studio Art

Credits: 1

Ceramics is a full year course which is designed to strengthen students' clay hand-building skills and working in the round. Projects include clay vessels of functional objects and meaningful works of art. Clay methods include pinch, coil, slab, glazing and underglazing.

FINE ARTS & MUSIC

Digital Photography

Grade: 9-12

Prerequisite: Studio Art

Credits: 1/2

Digital Photography is a half year course that introduces students to DSLR cameras. Students will learn how to compose photographs, manipulate photographs using various software programs, critique photographs and how to make digital portfolios of their work. Students will learn the principles and elements of Art/Design as they are applied to photography. They will also learn the history of photography and vocabulary associated with photography.

High School Chorus

Grade: 9-12

Prerequisite: None

Credit: 1

Students receive an intense study to rhythm, pitch, singing and creating music with the performance of various pieces and artists. They also are provided an opportunity to express themselves individually on solo or parts. Students are required to perform in two evening performances during the school year.

Haudenosaunee Arts

Grade: 9-12

Prerequisite: None

Credit: 1

Students will learn various art techniques and practices through the creation of traditional Haudenosaunee arts including baskets, pottery, leather-work, instruments, traditional games, clothing and jewelry. Students will explore contemporary native art forms including, painting, printmaking, sculpture and digital arts. This course includes a historical component related to each art form, class critiques as well as many guest artist presenters.

High School Band

Grade: 9-12

Prerequisite: Student should have experience playing their chosen instrument

Credit: ½

High school band is comprised mainly of students who have already participated in an instrumental program at some point. Motivated beginners are also welcome. Students will be challenged to achieve musicianship to the highest level they are able through band rehearsals, scheduled lessons and individual practice on their instrument. Mandatory concerts will be presented twice during the school year to showcase student achievement and musicianship within the band setting.

AP Studio Art

Grade Level: 12

Prerequisite: Successful completion of Studio Art, Drawing + Painting and Advanced Drawing + Painting
AP Studio Art is for students who are seriously interested in the practical experience of art. Students will work with diverse media, styles, subjects, and content to create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined and applied to produce visual compositions. The portfolios will be submitted for evaluation at the end of the school year. Students' work will be informed and guided by observation, research, experimentation, discussion, critical analysis and reflection, relating individual practices to the art world. The AP Studio Art Program supports students in becoming inventive artistic scholars who contribute to visual culture through art making.

BUSINESS

Accounting

Grade: 10-12

Prerequisite: Business Math

Credit: 1

This course offers an introduction to the fundamentals of the accounting process. Students will be able to journalize transactions, prepare balance sheets, and income statements, as well as sales reports, and cash and payroll records. Monopoly is played to simulate real-life accounting procedures. Students will also team up with the Middle School Stem teams as accounting consultants. Students may receive college credit for this course through North Country Community College for a nominal fee.

Business Law

Grade level: 10-12

Prerequisites: none

Credit: 1/2

This course introduces students to the laws that affect business and everyday situations. Topics include laws for minors, contracts, and warranties. In addition, students will learn about automobile insurance, employee rights, and wills. Students will study the court process as they participate in mock trials. This course can be used in place of Economics.

CFM (Career & Financial Management)

Grade Level 9-10

Prerequisites: none

Credits: 1

This course introduces students to the terminology and concepts associated with financial decisions and career exploration. The foundation will set students up to discover a pathway to suit their interests and abilities. CFM will target units on money management, earning potential, financial services, career choices, and preparing for the real world.

Business Communications

Grade: 9-12

Prerequisite: None

Credit: ½

This course will provide an introduction to business writing and speaking with a particular emphasis on grammar, sentence structure, thought formation, and presentation skills. Class activities will emphasize communication in real-world business situations and enable students to begin developing their ability to write and speak effectively in the workplace.

Business Math

Grade level: 9-12

Prerequisites: none

Credits: 1

This course demonstrates how widely math skills are used in the business world. Some of the areas covered include budgeting, loans, investing and buying and selling products and services.

CIS 130 (Computer Informational Systems)

Grade Level 10-12

Prerequisites: Computer Applications

Credits: 1

As a student in this course, you will learn the most important topics of Microsoft Office 2013. The foundations of all 4 Office components: Word, Excel, Access, and PowerPoint are covered as well as advance topics in Word and PowerPoint. Material can lead to preparation for a MOUS certification.

BUSINESS

Computer Applications

Grade level: 9-12

Prerequisites: none

Credits: 1

This course will prepare students in the proper use of keyboarding techniques. Microsoft Word 2013 and PowerPoint 2013 are used and an introduction to their menus, toolbars, and dialog boxes will be taught. Organizational skills as well as responsibility issues will be required for students to succeed in this course.

Graphic Design

Grade level: 10-12

Prerequisites: Computer Applications

Credits: 1

Students use Microsoft Publisher to create promotional designs such as marketing brochures for products and services. Students also use Adobe Photo Shop to create graphics that can be used to help market an individual's software experience.

Online Applications

Grade level: 9-12

Prerequisites: none

Credits: ½

This course introduces the student to the world of online academia using computers to create and submit all of their assignments. Google Tools, Social Media Etiquette, and proper email protocol will be implemented as students access online content management systems such as Blackboard and Moodle.

AP Computer Science with Lab

Grade level: 10-12

Prerequisites: Successful completion of Algebra

Credits: 1

This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data, approaches to processing data, analysis of potential solutions and the ethical and social implications of computing.

Entrepreneurship

Grade level: 11-12

Prerequisites: none

Credits: ½

This course is designed to recognize a business opportunity, start a business based on the recognized opportunity, and then develop a comprehensive business plan to learn how to operate and maintain the business. Also integrated are outside examples of business strategies conducted by actual entrepreneurs.

Marketing

Grade level: 11-12

Prerequisites: none

Credits: ½

This course focuses on the real-world business perspective by using examples from the marketing world to illustrate features, concepts, and activities. Information on featured companies, organizations, their products, and services is included for educational purposes. Also integrated is the importance of individual success and the finances behind it.

TECHNOLOGY

Design & Drawing for Production (DDP)

Prerequisite: None

Credits: 1

DDP Provides the students with opportunities to be creative, apply decision-making and problem-solving skills to technical drawing, sketching, and computer aided drafting techniques.

**This course will fulfill the one year requirement for Art or Music.

Computer Aided Machining

Prerequisite: DDP

Credits: 1

Students learn the more advanced skill of technical computer aided drafting. The students will also learn the technology of computer controlled manufacturing. Projects include advanced drafting and computer controlled manufacturing.

Principals of Engineering

Prerequisite: DDP

Credits: 1

Students will learn team problem solving techniques to design real world technological solutions. Projects examples are building a robot, electronics, computer programming, build and design a bridge, ballistic device, etc.

**This course may be used for a third unit of math or science.

Metalworking/Welding

Prerequisite: DDP

Credits: 1

Students learn basic metalworking techniques such as casting, basic machining and sheet metal fabrication. Students also learn the processes involved in layout and setup for welding fabrication.

Advanced Metals & Machining

Prerequisite: DDP & Metalworking/Welding

Students will perform advanced techniques used in machine shops and production industry. Projects include milling, lathe operations, and computer controlled machining.

Automotive Repair

Prerequisite: None

Credits: 1

Students learn the principles, trouble shooting, and repair procedures of diesel and multi-cylinder gas engines. Projects include repairing and troubleshooting these types of engines and vehicle repair.



TECHNOLOGY

Woodworking

Prerequisite: DDP

Credits: 1

Students will learn the basic operations, processes and techniques of woodworking. Projects include shelves, hat racks, and tool boxes.

Furniture & Cabinet Repair

Prerequisite: Woodworking

Credits: 1

Students will learn more advanced woodworking techniques such as ones used to construct furniture and various cabinets in the home. Projects include: bar stools, Adirondack chairs, and wall cabinets.

Residential Construction

Prerequisite: DDP

Credits: 1

Students will learn basic construction techniques and machine operations needed to build a wooden structure safely and efficiently. Projects include: storage sheds, dog houses, and outdoor furniture.

Architectural Drawing

Prerequisite: DDP

Credits: 1

Students will learn techniques applied in architectural and civil engineering designs. Projects include designing a house, learning property surveying, and constructing a building model. These projects will be developed through sketching and computer-aided drafting.

Renewable Energy

Prerequisites: None

Credits: 1

Students will learn the importance of energy to society and the developments in it from the primitive to the most advanced. Lab activities will center on research, experimentation, and fabrication of projects, scale models and mockups. Projects include windmills, solar cooker, and energy efficient homes.

** This course may be used for a third unit of math or science.

ATV & Ag Mechanics

Prerequisite: None

Credits: 1

Students will learn the basic engine theory, and then apply that theory to engine tear down, reassembly, and troubleshooting procedures. Projects include working on lawn mowers, motorcycles, farm equipment and all types of small engines.



NOTES

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