

FRONTENAC HIGH SCHOOL

Enrollment & Planning Guide



2018-2019

Frontenac High School
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Business and Computers

Computer Technology II

Credit: 1.0

Grade: 10-12

Prerequisite: none

This is a course that continues the concepts and skills covered in Computer Technology. Areas covered will include advanced skills in Photoshop, Coding, Microsoft Office (Word, Excel, and PowerPoint), and iLife (iPhoto, iMovie, iTunes, and Garageband). This is a project-based class that will require small presentations.

Accounting

Credit: 1.0

Grade: 10-12

Prerequisite: none

Accounting is a class, which will provide students with basic accounting knowledge, and skills needed for entry-level careers in business and will serve as a foundation on which to continue the study of accounting at the college level. Grades are based on tests, homework, participation, and problems.

Intro to Business

Credit: 1.0

Grade: 9-12

Prerequisite: None

This is a core course designed to give students an overview of the business, marketing, and finance career occupations. Students will develop an understanding of business, marketing, finance, and economic principles; examine the history of businesses both in the United States and other international markets; demonstrate use of effective and appropriate business communication skills, both written and verbal; study the role of the entrepreneur in business; become familiar with business ethics; study financial analysis designed to protect a business's fiscal well-being; and understand the importance of employability skills.

Business Communications

Credit: 1.0

Grade: 9-12

Prerequisite: None

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real world application. This class is an elective for any career pathway. It is recommended to take after Intro. to Business, but may be taken before.

Entrepreneurship

Credit 1.0

Grade Level 10-12

Prerequisite: None

Entrepreneurship courses acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content:

economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Several topics surveyed in Business Management courses may also be included. Students will be required to work in the school store. Several topics surveyed in Business Management courses may also be included.

Business Management

Credit 1.0

Grade level 10-12

Prerequisite: None

Business Management courses acquaint students with management opportunities and effective human relations. These courses provide students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, they usually provide a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course may also emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions. Students will be required to work in the school store.

Personal Finance

Credit: 1.0

Grade: 10-12

Prerequisite: None

The purpose of Personal Finance is to empower students with knowledge and application of basic financial principles so that they can make sound financial decisions for life. The course will reinforce academic skills such as communication, mathematics, reading, research and writing; help students develop flexible knowledge, effective problem-solving skills, effective collaboration skills, and intrinsic motivation through the use of a variety of individual and group activities; enhance students' financial literacy skills, enable students to develop informed money-management strategies; stimulate interest in financial management, inspire students from all backgrounds to achieve financial well-being; and foster an understanding and appreciation of ethical money management.

Business Development-RAIDER INK (also under Technology)

Credit: 1.0

Grade: 11-12

Prerequisite: Foundations of Technology AND Communication Technology OR Graphic Design Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business. Students will use the knowledge from previous classes to create T-shirts, glassware, vinyl signs, etc. Processes may include, screen printing, vinyl sign making, poster design, and some laser designed products.

Business Career Investigations

Credit: 1.0

Grade: 12

Prerequisite: (Must have completed a minimum of two business pathway classes)

The purpose of this course is to provide students with accurate, current information concerning both the career and career-prep awareness for individuals pursuing a business-based career. The course will consist of various field trips to observe people at work in the areas of accounting, marketing, management, and finance; college-career research; college and on-site shadowing requirements. Students enrolling in this course should have completed Introduction to Business and two additional business pathway courses with a grade of C or better. Permission of instructor and a signed contract are required before enrolling. *In this capstone course, Business Career Investigations, students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. The course includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business.*

21st Century Journalism/Broadcasting

Credit: 1.0

Grade level: 9-12

Prerequisite: 75% or higher in previous semesters English course

Students will be a part of The Raider News Team, which produces the weekly school news broadcast, Raider Weekly. They will take on roles that appeal to them, including anchor, feature reporter, sports reporter, videographer, and producer. Students will engage in individual and group projects.

Phone Imaging/Yearbook

Credit: 1.0

Grade level: 10-12

Prerequisite: 70% or higher in previous semester English course

In this course, students will be required to put together the yearbook. Because of deadlines and tight schedules, students must be very organized, capable of self-direction, and should expect to do work outside of class time, such as during the evenings and weekends. Seniors enrolled in this course will be required to return to school until his or her pages are finished.

English Language Arts

English I

Credit: 1.0

Grade: 9

Prerequisite: None

English I is the first course in a required, four-year sequence. The first semester will focus on short stories, the elements of fiction, paragraph writing using the Better Answer Formula, nonfiction study, and drama exploration. The second semester will cover mythology and legends, incorporating research skills, and a study of a class novel. Throughout the year, grammar and punctuation rules focusing on preparation for the ACT will be covered. Independent reading will be required.

English II

Credit: 1.0

Grade: 10

Prerequisite: None

English II is the second course in a required, four-year sequence. The first semester will focus on a study of fiction, nonfiction, poetry, and basic writing skills, culminating in literary analysis, comparison/contrast, and personal narrative essays. The second semester involves a literature-circle approach to novel study, as well as a drama study. Grammar usage and sentence constructs focusing on preparation for the ACT will be incorporated throughout the year. Independent reading will be required.

English III

Credit 1.0

Grade: 11

Prerequisite: None

English III is the third course in a required, four-year sequence. Focusing on critical thinking skills and effective reading strategies, students study a variety of genres in American literature as well as various forms of informational texts. Using a writing process, students refine composition skills completing several long and short writing tasks. Students use email, word processing, presentation software, and the Internet to complete assignments and projects. Course content also includes vocabulary study, independent reading, ACT practice, and a research project.

Applied English IV

Credit: 1.0

Grade: 12

Prerequisite: None

Applied Communications IV is a senior-level English class that focuses on the application of reading and writing skills in real world and academic situations. Students practice reading strategies for both literary and informational texts. With emphasis on basic communication skills, writing assignments focus on career-oriented tasks. Students use email, word processing, presentation software, and the Internet to complete assignments and projects. Course content also includes vocabulary study, independent reading, problem solving, and a research project.

English IV

Credit: 1.0

Grade: 12

Prerequisite: None

English IV is the fourth course in a required, four-year sequence. With a focus on critical thinking, students read and analyze a variety of genres from world literature. Students also research controversial issues and evaluate claims presented in various informational media. Focusing on voice and style, students write for a variety of audiences and purposes with emphasis on analysis, evaluation, and persuasion. Students use email, word processing, presentation software, and the Internet. Course content also includes vocabulary study, independent reading, and ACT practice. A research project that includes an argumentative essay is required.

ENGL 101: English Composition

Credit: Dual Credit- 3.0 Hours PSU and 0.5 High School English Credit

Prerequisite: Minimum ACT Score of 21

Grade level: 12

Corequisite: If you take this course, you must also take ENGL 299 in the spring semester.

A writing-intensive course based on composing a variety of college-level papers. A portfolio approach is used, focusing on revision for both content and style.

Offered on an A, B, C, or no credit basis only.

ENGL 299: Introduction to Research Writing

Credit: Dual Credit- 3.0 Hours PSU and 0.5 High School English Credit

Prerequisite: ENGL 101 English Composition

Grade: 12

Research writing techniques, critical thinking and reading skills, with an emphasis on rhetorical skills centered around an in-depth study of two class works of British literature.

Offered on an A, B, C, or no credit basis only.

ENGL 113: General Literature

Credit: Dual Credit- 3.0 Hours PSU and 0.5 High School Elective Credit

Prerequisite: None

Grade: 11-12

Survey course that covers fiction, poetry, and drama, culminating in three analytical papers.

Independent reading required.

Family and Consumer Sciences

Consumer Education

Credit: 1.0

Grades: 9-10

This course focuses on the understanding and skills needed to make responsible financial decisions. Topics include the following: budgeting, taxes, banking, savings, credit, transportation, housing, insurance, managing resources, consumer rights and responsibilities, including consumer protection and identity theft. Students will also gain knowledge in financial planning, have a better understanding of spending, saving, and investment.

Course Note: Students are required to participate in competitive events.

Nutrition and Wellness

Credit 1.0

Grade level 11-12

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

Career and Life Planning (semester)

Credit 0.5

Grade 12

This course will help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their career paths. This course exposes students to various sources of information on careers and training options and may also assist them in developing job search and employability skills. Students will gain experience through participating in mock interviews and job shadow opportunities.

*Course Note: Students are **REQUIRED** to participate in job shadow and professional interviews.*

Fine Art

Art I

Credit: 1.0

Grade: 9-12

Prerequisite: None

The Art I class is designed to provide basic knowledge and skills in different areas of art. Among these will be many different types of drawing, using values, tints, shading, etc. As drawing is the foundation for many other different aspects of art, it is heavily stressed.

We will also study various elements of design, perspective and depth, printing processes, color mixing, watercolor painting, pottery, clay, ceramic construction, etc. Students will become familiar with art terminology, use of names of tools, equipment, and processes.

Grades will be given for daily progress on projects, tests, study sheets, class participation, and final project grades. Tests are over covered material, demonstrations, terms processes, discussion, and related information.

Art II

Credit: 1.0

Grade: 10-12

Prerequisite: 70% or higher in Art I

Art II students will study more in depth and build on previously learned material and skills. More specific problems and studies will be undertaken in areas such as three-dimensional drawing, layout and design, introduction to acrylic painting on canvas board, more in depth aspects of clay and ceramics, and introduction to airbrush. Art II students should be able to work individually, and more independently, with more imagination by building upon earlier works.

Art III

Credit: 1.0

Grade: 11-12

Prerequisite: 70% or higher in Art II

Art III is for our advanced art students who are already familiar with the terminology, tools and processes in art and can work well individually as well as on group projects. Students may concentrate their efforts in areas that will prepare them best for post graduation work (i.e., college, printing, graphic design, etc.) or solely to pursue art as a hobby. Along with expanding on previous projects and problems, we will study graphic design, larger scale projects including painting, drawing, airbrush, ceramics, and mixed media.

Grades will be given for daily progress on projects, tests, study sheets, class participation, and final project grades. Tests are over covered material, demonstrations, terms processes, discussions, and related information.

Art IV

Credit: 1.0

Grade: 12

Prerequisite: 70% or higher in Art III

To enroll in Art IV class, a student must have the permission of the instructor on their enrollment sheet. The Art IV student will be expected to work individually on complex works, and be highly self-motivated. All projects, processes, and problems will be more complex, and may require more research and use of outside resources as well as additional class time. Students may be asked to purchase certain supplies or materials not furnished by class. The instructor and student will choose major areas of concentration for the school year based upon individual needs and challenges. Student work will be critiqued by the instructor on an individual basis as works progress and upon completion of a work. Art IV students should have had above average success in previous classes, and are planning to major or minor in art, commercial graphics, or other related field.

Music Appreciation

Credit: 1.0

Grades: 9 - 12

This Course will examine and discuss the history of music, from the “Middle Ages” through today’s “Popular Music.” In addition to learning about the history of music, the course will cover “what goes into writing and the performance of music.” Students will be given the opportunity to write music, record the song, and possibly perform this song. This class will possibly take field trips in order to enhance the students’ understanding of music. No prior music background is necessary. Meets Fine Art requirement.

Band

Credit: 1.0

Grades: 9 -12

Prerequisite: 80% or higher in Junior High Band

Students who play a woodwind, brass, or percussion instrument are eligible to participate in the band program. This is a performance-based class, however grades WILL be based on rehearsals and ALL performances (Concerts, Football & Basketball Games, Parades, H.S. & 8th Graduations, Solos and small ensembles). All other performances may be scheduled at the discretion of the director. Students will be given a two-week or more notice of all required performances.

Vocal

Credit: 1.0

Grades: 9 -12

Prerequisite: None

There is no prior music experience is necessary for joining choir. This is a performance-based class, however grades WILL be based on rehearsals and ALL performances (Concerts, Basketball Games, H.S. & 8th Graduations) All other performances may be scheduled at the discretion of the director. Students will be given a two-week or more notice of all required performances. Other opportunities for the students are Solo and Small ensemble performances. Tutoring sessions are also available upon request.

Theater/Forensics

Credit: 1.0

Grade: 9-12

Prerequisite: none

Public Speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.

Debate/Speech

Credit: 1.0

Grades: 9-12

Inclusive courses offer students the opportunity to learn how to use oral skills effectively in formal and informal situations. Students learn such skills as logic and reasoning, the organization of thought and supporting materials, and effective presentation of one's voice and body. Often linked to an extracurricular program, these courses introduce students to numerous public speaking situations, and they learn the methods, aims, and styles of a variety of events (e.g., formal debate, Lincoln-Douglas debate, expository speaking, oral interpretation, and dramatic interpretation).

Special Notes: Participation in competition is required.

Performing Arts II

Credit: 1.0

Prerequisite of speech/theater, 8th grade public speaking, or Forensics or by permission of instructor.

Grades: 10-12

Comprehensive courses are intended to help develop students' experience and skill in one or more aspects of theatrical production. Initial courses are usually introductory in nature, providing an overview of the features of drama such as acting, set design, stage management, and so on. The more advanced courses concentrate on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions. These courses may also provide a discussion of career opportunities in the theater.

Foreign Language

Spanish I

Credit: 1.0

Grade level: 9-12

Prerequisite: none

Spanish I consists of two semesters and is an introduction into the studies of a foreign language. During Spanish I students will progress from using single words and phrases to simple sentences and then to short paragraphs/dialogues. Topics they will be able to discuss include introductions, personalities, likes and dislikes, class schedule, typical hobbies, food and eating habits, family, and clothing. In addition to learning how to communicate in Spanish, we will learn the culture and geography of Spanish-speaking countries.

Spanish II

Credit: 1.0

Grade level: 10-12

Prerequisite: 70% or higher in Spanish I

Spanish II is a two-semester class that requires a Spanish I prerequisite for enrollment. Building upon the skills and knowledge they learned in Spanish I, students will communicate in more detailed sentences in short paragraphs/dialogues during this course. The majority of this class will be taught in Spanish. Topics we will discuss include vacationing, the home and household chores, health, and places in the community. Students will not only learn the vocabulary necessary to discuss these topics, but will also consider the culture related to them in the different Spanish-speaking countries. We will also do a country study of Argentina, studying its history, government, economy, and culture.

Spanish III

Credit: 1.0

Grade level: 11-12

Prerequisite: 70% or higher in Spanish II

Spanish III is a two-semester class that requires a Spanish I and II prerequisite for enrollment. In Spanish III students will become more confident in communicating in everyday situations, speaking in longer sentences and sometimes using conjunctions, such as “and, but, or.” Students taking Spanish III will study the culture more in depth, while learning college preparatory material. The majority of this class will be taught in Spanish. Vocabulary and grammar topics taught include ordering in a restaurant, making comparisons, protecting the environment, your daily routine, the differences between ser and estar and por and para, and comparing the preterite and imperfect past tenses. Cultural topics include: a country study of Spain including its history, geography, and culture, Spanish art and artists, types of food in Spanish-speaking countries, and Don Quixote.

MATH

Basic Algebra

1.0 Credit

Grades 9-12

Prerequisite: None

Students in Basic Algebra will work with the concepts of Algebra 1, but will be limited to work with integers if at all possible.

Course Note: This class does not satisfy the Algebra 1 requirement for Qualified Admissions.

Practical Applications in Math

Credit 1.0

Grades 11-12

Prerequisite: None

Students in Practical Applications in Math will master basic arithmetic skills along with solving real world problems pertaining to, but not limited to, part-time and full time jobs, basic everyday purchases, balancing checking and savings accounts, credit and credit cards, automobile expenses, and transportation costs.

Course Note: Course is only offered every other year in a rotation with Practical Applications in Math II.

Practical Applications in Math II

Credit 1.0

Grades 11-12

Prerequisite: None

Students in Practical Applications II will master basic skills pertaining to exponents, fractions, measurement in both the metric and SI systems of measure and probability. Students will also use mathematics to solve real world problems pertaining to, but not limited to, taxes, cost of housing, personal finance, investments, various sales professions, and trade industries.

Course Note: Course is only offered every other year in a rotation with Practical Applications in Math I.

Basic Geometry

Credit 1.0

Grades 10-12

Prerequisite: None

Basic Geometry will provide students the opportunity to understand and use many geometric concepts. Students will work with: perimeters, areas, congruency, and similarities (ratio and proportions) in polygons and circles; surface areas and volumes, parallel lines and associated angles. It does NOT include formal proof.

Course Note: This course does not satisfy the Geometry requirement for Qualified Admissions.

Algebra I

Credit 1.0

Grade 9-12

Prerequisite: None

It is highly recommended that students wanting to enroll in Algebra 1 have mastered basic skills in fractions, operations with signed numbers and one- and two- step solving equations. Students will learn to solve and graph linear equations and inequalities, apply properties of exponents and will solve quadratic equations by using the quadratic formula and by factoring. Students will be expected to pass an exit exam. Upon successfully completing Algebra 1, students will prepare to enroll in Algebra II.

Course Note: Students receiving below 70% on Exit Exam will be recommended for Algebra 2 with review.

Algebra II

Credit 1.0

Grade 9-12

Prerequisite: 70% or higher in Algebra I

Students will study linear and quadratic functions, graph polynomial and rational functions, solve polynomial equations and will apply properties of exponents. Upon successfully completing Algebra 2 with a 70% or better, students will be prepared to enroll in Geometry.

Algebra II with Review

Credit: 1.0

Grade 10-12

Prerequisite: Algebra 1

Students enrolling in Algebra 2 with review will study the same material as Algebra 2 but will do so with the addition of an extra class period. Additional and/or other classwork and assignments may be given. Additional work not assigned to the Algebra 2 students will be given to help the student better understand the concepts of Algebra 2. Recommended for students with a grade of C or lower in Algebra I. Approval by Math department. This will count as an elective credit.

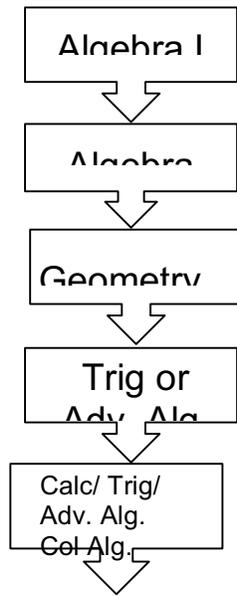
College Algebra

Credit: 1.0

Grade: 12

Prerequisite:

College Algebra is generally the first college mathematics class a student takes in college. College Algebra will deal with all of the concepts you have learned in your Algebra I and II courses. Many of these concepts will be expanded on and include more problem solving applications of these concepts learned in previous algebra courses. The main difference between a "College Algebra" class and a "high school algebra" class is the speed at which material is covered. All materials must be covered in one semester. As in most college classes you will be expected to spend considerable time outside the class to perfect your ability to apply the covered concepts. Grading is from homework assignments and tests. Only a semester grade is given. Students must have successfully completed Advanced Algebra or Trig and have their teacher's recommendation. (May be taken for Dual Credit to satisfy Qualified Admissions 4th Math credit requirement.)



Miscellaneous

ACT Prep (semester class)

10-12 Grade

Standardized Test Preparation courses help prepare students for national standardized tests. In particular, these courses assist students in developing and/or expanding their vocabulary, test-taking, and reasoning skills through study, lecture, and practice drills. Course topics may include vocabulary review; root words, prefixes, and suffixes; mathematical concepts, logic, and rules; and general problem-solving and test-taking strategies. This course will provide specific strategies for taking the ACT.

VPL

Credit: 0.5

Grade level: 9-12

VPL is a program of classes that Frontenac High School will be offering to supplement schedule conflicts and other curriculum areas and it will be used for credit recovery. VPL has two parts to its system in order to prescribe learning. First is the "online portion". Here you will take an online assessment using A+ software to determine your learning prescription. Along, with the online part, there is an offline portion. This part contains assignments through Blackboard that will need to be completed to earn credit for the course enrolled in for the semester. A student must have administration approval to enroll in these classes. Approval only.

Physical Education and Health

Physical Education

Credit: 0.5

Grade: 9

Prerequisite: None

This is a required course designed to give the student the knowledge and skills necessary for a healthy and successful life. The course encourages students to establish positive lifelong wellness practices as well as explore lifetime fitness and leisure activities. Students will be required to dress out everyday in order to participate in the various units. Dressing out, participation and written tests and skills tests will be used to determine grades.

Health

Credit: 0.5

Grade: 9

Prerequisite: None

This is a required course which provides students the opportunity to realize that health is a matter of overall well being rather than the absence of disease. Students will be able to consider the ways in which exercise, diet, and personal habits can affect a person's well being. They will also become aware that social setting affects health and be able to describe practices that can harm well being and practices that can help it. Students will be able to realize their own actions and attitudes are the final determinations of their own well being.

Weight Training

Credit: 1.0

Grade: 9-12

Prerequisite –Students are recommended to attend Summer Weights/Conditioning on a regular basis. Participation in extracurricular activities OR permission of instructor is considered. Students will be taught the proper techniques and training methods associated with sports and athletic preparation. The students must have a willingness to perform, including, but not limited to, a high level of weight training, plyometric training, speed development, and core training. This course is designed for those who have willingness and desire to become bigger, faster, and stronger. The main goal of the class is to help students prepare for team/individual sports and to help create high expectations for themselves and their teams.

Lifetime Fitness

Credit: 1.0

Grade: 9-12

Prerequisite- None

This course emphasizes conditioning activities that help develop muscular strength, flexibility and cardio fitness. It provides knowledge and skills necessary for maintaining a healthy lifestyle and encourages students to establish positive, lifelong practices. Students will be required to dress out each day and participate. Daily participation points will be given.

Science

Biology I

Credit: 1.0

Grades: 9-10

Prerequisite: None

Students will demonstrate an understanding of the fundamental principles of Biology and will be exposed to the National Science Standards.

Biology II

Credit: 1.0

Grades: 10 – 12

Prerequisite: 70% or higher in Biology I

The purpose of this course is to provide students with accurate, current information concerning the following themes: interacting systems, energy and life, evolution, patterns of change, scale and structure stability in an interesting and understandable manner. This course takes up where Biology left off. Biology II, however, involves a great deal of lab work, primarily animal and plant dissection. Student should only enroll in the course after successfully completing Biology I and if they have an interest in investigating the anatomical structure of animals through dissection. The course will involve study time, as well as, homework time outside of class, effective reading skills and the desire to learn.

Anatomy & Physiology

Credit: 1.0

Grades: 11-12

Prerequisite: 80% or higher in each: Biology I, Biology II, and Earth Science

Corequisite: Chemistry

Students will demonstrate an understanding of both the structure and function of the human body. Upon earning an 85% or better, students will be prepared to enroll in Science Investigations.

Science Investigations

Credit: 1.0

Grade: 12

Prerequisite: 85% or higher in each: Biology I, Biology II, Earth Science, Anatomy & Physiology, and Chemistry

Students will explore science-based careers of interest by observing an employee perform their work duties at their place of employment. The experience should provide realistic career information that will aid the student in making advanced educational and career choices.

Course Note Students will be off site shadowing on a regular basis. HIPPA guidelines must be followed. Students must have less than 25 attendance points the previous semester, reliable transportation, teacher permission, and a signed contract.

Field Biology

Credit: 1.0

Grade level: 11 – 12

Prerequisite: 70% or higher in Biology I

Field Biology will concentrate on the aspects of ecology, natural history, wildlife management, and environmental research. Course work will combine hands-on collection and research with lecture of core concepts in this area. Participation and a good work ethic are required for this course. Students will be responsible for their own research projects that at times may require substantial time outside of school hours. Being comfortable handling wildlife (dead or alive) is a basic need to succeed in this course.

Earth Science

Credit: 1.0

Grade level: 9-10

Earth and Space Science courses introduce students to the study of earth from a local and global perspective. In these courses, students typically learn about time zones, latitude and longitude, atmosphere, weather, climate, matter, and energy transfer. We will study topics such as space systems, the history of earth, earth's systems, weather and climate, human sustainability, chemistry and physics. Advanced topics may also include the study of the use of remote sensing, computer visualization, and computer modeling to enable earth scientists to understand earth as a complex and changing planet. This course prepares students for state assessments and chemistry and physics courses.

Physical Science

Credit: 1.0

Grade: 11-12

Prerequisite: 70% or higher in Earth Science and Biology I

Physical Science courses involve the study of the structures and states of matter. Topics of study may include forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions. This course will include both chemistry and physics topics. Students who enroll in this course should expect to perform lab experiments with results communicated in lab reports and calculations that may require knowledge of algebra and trigonometry.

Chemistry

Credit: 1.0

Grade: 11-12

Prerequisite: 80% or higher in Algebra I

Chemistry is the study of the composition, properties, and the structure of substances and changes they will undergo. This course will study the structure of the atom, the elements, chemical reactions and the Periodic Table. There will be a great amount of problem solving done in this course.

Various laboratory activities will be performed and results will be communicated with lab reports.

This course will be very involved, thus the student will have to spend a great deal of outside time studying. Safety will be very important in this class. Each student will be required to pass a safety test before entering the laboratory. The grade for this course will come from daily quizzes, lab activities, and chapter tests,.

Physics

Credit: 1.0

Grade: 12

Prerequisite: 75% or higher in Algebra II **and** Geometry

Physics courses involve the study of forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics also includes the examination of sound, light, and electric and magnetic phenomena. There will be a great amount of math and problem solving done in this course. Various lab activities will be performed and results will be communicated with lab reports.

Social Science

Psychology

Credit: 1.0

Grade: 10-12

This course provides an overview of the major theories of psychology, human development and related issues, abnormal psychology and theories, theories of learning and mental health. It also previews careers in the field of psychology and prepares the student for an introductory college psychology class.

American Government

Credit: 1.0

Grade: 12

American Government is a required course offered to students to acquaint them with the basic knowledge necessary for them to function as a good citizen in our society. The class covers the organizations and operation of federal, state, and local systems of government, along with a review of constitutional information necessary to understand our basic freedom. The main objective of the course is to promote the American system of government and its basic tenets of majority rule along with minority rights.

American History

Credit: 1.0

Grade: 11

American History is a required course offered to students to equip them with a basic knowledge of our country's past from the Age of Empire through the 21st Century, with an emphasis on the 20th Century. The students will also learn why historical events happened and their implication to the present day.

World History

Credit: 1.0

Grade: 9-10

Prerequisite:

World History emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places. Students will use skills of historical and geographical analysis to explore the early history of the world.

World Geography

Credit: 1.0

Grade: 9-12

The World Geography course familiarizes students with the world using the five geographic themes and essential elements. Students will develop skills and knowledge about location, place, human/environmental interaction, movement, and regions. The course will compare and contrast these themes across all continents. Students will be able to apply their geographic knowledge to their community, state, nation, world, and themselves. Instruction will include the integration of concepts and principles from history, economics, geography, civics, and the humanities.

PSYCH-155: General Psychology

Credit: DUAL CREDIT- 3.0 Hours PSU and 0.5 High School Social Science Credit

Grade: 11-12

Prerequisite: 3.0 GPA and teacher recommendation

Recommended: 80% or higher in High School Psychology

Introduction to the science of psychology with an emphasis on the principles which lead to a greater understanding of behavior. Selected laboratory experiences included. Open to juniors and seniors by approval only.

Technology Education

Foundations of Technology

Credit: 1.0

Grade level: 9-12

Prerequisite: None

This course will provide all students with the fundamentals in technology to help prepare all students in becoming “Technologically Literate”. Key areas covered in this class are Communication Technology, Design/Engineering, Production/Construction and Power/Energy/Transportation Technology. Students will learn using hands-on activities for real-world applications. This Foundation course will provide students with certain skills for employability, career development, critical thinking and problem solving that are needed to become productive citizens. This course provides for a unique experience to the “World of Technology” in a lab atmosphere.

*Course Note: **This course is a PREREQUISITE to these classes:** Communication Technology, Graphic Design, Design/Engineering, Production Technology & Power, Energy/Transportation Technology.*

Communication Technology (Graphic Design)

Credit: 1.0

Grades: 10-12

Prerequisite: Foundations of Technology

Communication Technology focuses on the competencies needed for the planning and implementation of a successful graphic design program. Students are exposed to advanced skills, illustrations, photography, design principles, and business creation. Students use a hands-on approach to learn what it takes to be a graphic designer. Students create logos, slogans, web sites, posters, brochures, photos, and videos. At the end of the year, students will use all of their knowledge to design all that is needed for a real business.

Graphic Design

Credit: 1.0

Grades 10-12

Prerequisite: Foundations of Technology

Using various design programs to implement the design principles into a message. Students will study typography, design principles, page layout, color, illustrations, and various print and layout techniques. Students will develop real life projects that will be used around the community. This course is a hands-on course that puts your creativity to work.

Video Production Fundamentals

Credit: 1.0

Grades: 10-12

This class serves as an introduction to video recording and editing, presenting video as a tool of personal apprehension and expression, with an emphasis on self-exploration, performance, social critique, and the organization of raw experience into aesthetic form (narrative, abstract, documentary, essay). Students are required to complete a variety of assignments to learn the basics of video capture and editing, culminating in a final assignment that has to do with personal storytelling. Students will produce video, short films, documentaries, and many more creations.

Business Development-RAIDER INK (also under Business)

Credit: 1.0

Grades: 11-12

Prerequisite: Foundations of Technology AND Communication Technology OR Graphic Design
Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business. Students will use the knowledge from previous classes to create T-shirts, glassware, vinyl signs, etc. Processes may include, screen printing, vinyl sign making, poster design, and some laser designed products.

Applications in Communication Technology

Credit: 1.0

Grades: 11-12

This class is a junior/senior level capstone class. It allows students to study an area of technology of their choice. It is a self-directed project based class. This class requires students to fill out an application that has to be approved by the instructors in order to be in it.

Power, Energy & Transportation

Credit: 1.0

Grades: 10-12

Prerequisite: Foundations of Technology

This course focuses on the study of the forces and laws of nature and their application to modern technology (Power/Energy & Transportation). Energy & Power conversions, electromagnetism, Mechanical and Fluid Power. are presented in the context of current real-world applications. Real World Projects: Solar Car, Electromagnet, Electric Motor, Residential Wiring, Tetrix Robotics, Fluid Power Robot and Automotive. This course enables students to gain a solid foundation for careers in electronics, robotic, automotive & telecommunications and other technology fields.

Production Technology

Credit: 1.0

Grades: 10-12

Prerequisite: Foundations of Technology

This course is designed to enhance the knowledge of students in the area of Manufacturing Process. Students will study project design in the areas of wood, metal and plastic technology. They will also learn how people efficiently use these resources to manage manufacturing. Concepts of lean manufacturing and mass production are skills that the students will utilize while participating in these activities. Student will design and produce individual projects in wood, metal and plastic. CNC Machining and Laser Engraving will be an important part of this class.

Design/Engineering

Credit: 1.0

Grades: 10-12

Prerequisite: Foundations of Technology

This class is designed to give the students an in-depth look into the world of designing and engineering. Students will use AutoCAD, SolidWorks , and Chief Architect to create different types of drawings. Students will also be solving various real life problem solving activities using the software and problem solving techniques learned in this class.

Applications in Design

Credit: 1.0

Grades: 11-12

Prerequisite:

This class is a junior/senior level capstone class. It allows students to study an area of technology of their choice. It is a self-directed project based class. This class requires students to fill out an application that has to be approved by the instructors in order to be in [it](#).

Applications in Production

Credit: 1.0

Grades: 9-12

Prerequisite: Production Technology

This class is a junior/senior level capstone class. It allows students to study an area of technology of their choice. It is a self-directed project based class. This class requires students to fill out an application that has to be approved by the instructors in order to be in it.

Residential Carpentry I

Credit: 1.0

Grades: 9-12

Prerequisite: None

This class is a year long class. This course is an introduction to The Construction Technology Career Path Program. The course is designed to introduce the students to: construction safety, construction math, power tools, blueprints, basic rigging, communications skills, and basic employability. The class will be supplemented by hands-on activities, field trips to job sites and outside speakers. Participants will receive NCCER certification upon successful completion of the course. Participants will be eligible to receive college credit if they enroll in the construction programs at PSU or FSCC.

Course Note: This class is a prerequisite for all Construction Technology Classes.

Residential Carpentry II

Credit: 1.0

Grades: 10-12

Prerequisite: 70% or higher in Residential Carpentry I

This course is designed to allow the student the opportunity to apply and expand knowledge and experience in specific areas in Construction Technology. This course is supported by the National Center for Construction Education and Research (NCCER) curriculum which allows the students in this course to be nationally certified by passing competency-based tests and performances. The areas of Construction Technology covered in this course are: "Building Materials, Fasteners, and Adhesives", "Hand and Power Tools", "Reading Plans and Elevations", "Floor Systems", "Wall and Ceiling Framing", "Roof Framing", "Introduction to Concrete and Reinforcing Materials", "Windows & Exterior Doors", and "Basic Stair Layout". The class will be supplemented by hands-on activities, field trips to job sites and outside speakers. . Participants will be eligible to receive college credit if they enroll in the construction programs at PSU or FSCC.

Electrical & Security Systems (.5)/ HVAC (.5) YEAR

Credit: 1.0

Grade level: 10-12

Prerequisite: Residential Carpentry I

This course is designed to allow the student the opportunity to apply and expand knowledge and experience in specific areas in Construction Technology. This course is supported by the National Center for Construction Education and Research (NCCER) curriculum which allows the students in this course to be nationally certified by passing competency-based tests and performances. The areas of Construction Technology covered in this course are:: HVAC (Heating, Ventilating & Air Conditioning), Electrical (Safety, Blueprints & Residential Wiring). The class will be supplemented by hands-on activities, field trips to job sites and outside speakers.

Research & Design in Building Trades

Credit: 1.0

Grade level: 11-12

Prerequisite: Residential Carpentry I

This course is designed to allow the student the opportunity to apply and expand knowledge and experience in specific areas in Construction Technology. The areas of Construction Project Management covered in this course are: Orientation to the Job, Human Relations, Negotiations, Problem Solving, Construction Documents, Construction Planning, Estimating, Scheduling, cost Awareness and Control, Resource Control, Quality Control/TQM, and Safety. The class will be supplemented by hands-on activities, field trips to job sites and outside speakers. Participants will be eligible to receive college credit if they enroll in the construction programs at PSU or FSCC.

Dual Credit/College Courses

The following courses are offered during the school day will count as dual credit.

PSU

COMM-207: Speech Communication (3 hours)

An elementary course designed to give the student an understanding of the requirements for effective speaking and listening and an opportunity to increase skills in each.

ENGL-101: English Composition (3 hours) –See Course description under English courses.

ENGL-299: Introduction to Research Writing (3 hours)

See Course description under English courses.

MATH-113: College Algebra (3 hours) See course description under Math courses.

PSYCH-155: General Psychology (3 hours) Introduction to the science of psychology with an emphasis on the principles which lead to a greater understanding of behavior. Selected laboratory experiences included.

ENGL-113: General Literature (3 hours) An introduction to poetry, fiction and drama. Not open to students with credit in ENGL 304 Introduction to Writing About Literature. (meets General Education requirements for Human Heritage)

ENGL-250: Introduction to Creative Writing (3 hours)

Learning methods of writing contemporary poetry and fiction; reading poetry and fiction as a writer. Prerequisite: ENGL 101 English Composition.

FSCC

Intro Craft Skills- 3 hrs. This course will introduce the student to basic safety, math and tools used in the construction trade. This course will include prep for 10 hour OSHA certification for the industry. This course will also expose the student to some of the technical, communication and employability skills required for a successful career in the trade.

Additional courses offered in the program include: Roof Framing, Floors, Walls, Ceilings
More program information is available in the FSCC course catalog.

Masonry 1-4hrs. This course introduces the student to the fundamental building blocks for masonry work. Masonry as a trade, the tools, and equipment commonly used will be introduced. Additional courses offered in the program include: Masonry II, Masonry III, Masonry IV, Advanced Masonry Laying Techniques.

More program information is available in the FSCC course catalog.

Welding. This program will introduce the student to the welding trade and multiple types of welding processes. Safety, equipment, setup and selection, preparation and quality will all be addressed. More program and course information available in the FSCC course catalog.

CNA-4- 5hrs.(Certified Nurses Aide) This course follows the curriculum guidelines of the KS Dept. of Health & Environment. Upon completion students are eligible to take the state certification exam.

Introduction to Cosmetology-7hrs 10 hours per week 12:55pm to 2:55pm;Pass/Fail
80 literal hours toward attending Traditional Cosmetology School at FSCC

Course Content: Solid Hair Cut, Curling Iron Techniques, Theory, Sanitation, Pedicures, Manicures, Salon Success, Gels,

USD 249 Frontenac Public Schools
Frontenac Education Foundation

Frontenac Public Schools and the Frontenac Education Foundation are committed to promoting and developing in young people core ethical and performance values that are widely affirmed across all cultures. The following values and concepts are part of the character education program.

“A Degree in Life”

Core Values

PURPOSE

HONOR

SERVICE

Key Concepts

Commitment & Goals
Compassion & Service
Integrity
Leadership
Perseverance
Respect
Responsibility
Self-Control
Teamwork