



2019-2020
Benedictine High School
Course Catalog

Business Courses:

507 Accounting Credit: 1

This course provides the basic principles of accounting, how to open a set of financial records, how to journalize, post, prepare financial statements and close records. This basic accounting cycle will be expanded on as the course progresses so that the student gains a general understanding of accounting principles. The course covers additional material dealing with the maintenance of accounting records for a sole proprietorship, partnership, and corporation. The students will use computers to solve integrating automatic accounting topics. The student will be performing file maintenance activities such as journalizing departmental purchases and cash payments.

511 Consumer Finance Credit: 0.5

Focuses on consumer finance and collection and deals with how individuals obtain money and credit (cards, loans, stored-value, etc.). Also addresses the range of creditor debt-collection activities, credit reporting, and credit scoring. The course also explores the problems of common consumer scams, including the consequences of non-payment. Included also is an exploration of the consumer ramifications of the Equal Credit Opportunity Act, Truth-in-Lending Act, Fair Debt Collection Practices Act, Fair Credit Billing Act, Fair Credit Reporting Act, Regulations Z and E, and the New York Retail Installment Sales Act.

510 Criminal and Consumer Law Credit: 0.5

This course will provide practical information and problem-solving opportunities for students. The curriculum will survey the legal system including criminal law and procedures as well as individual rights and liberties in the areas of speech, press, assembly, religion and discrimination. This course also aids the student in understanding and logically considering the principles of law as outlined in the Uniform Commercial Code in business policies and practices. Changes in the Code are illustrated in the course especially those dealing with commercial paper, sales and secured transactions, social security insurance and labor laws. Case studies, simulations, mock trials, and guest speakers from the legal and law enforcement communities are among the class activities.

506 Economics Credit: 1

Economics is a course dealing with making personal and social decisions. The course covers the private and public sectors of the economy. The first semester deals with the study of micro economics. The students will learn the theory of the law of supply and demand. They will cover perfect competition, monopolistic competition, oligopoly, and monopoly forms of business. The second semester deals with macroeconomics. The student will learn how the whole economy functions. He will study distribution of income, unemployment, inflation, monetary and fiscal policies.

515 Honors Micro Econ Credit: 1

Weighted as Honors

Students will understand the role of entrepreneurial businesses in the United States and the impact on our local, regional, national and global economy. The student will evaluate the skills and commitment necessary to successfully operate an entrepreneurial venture. Additionally, students will be involved in the Veale Youth Entrepreneurship Forum. Being a part of the Veale Forum students will compete in various competitions, including t-shirt design contests, elevator pitch contests, and will also write business plans to compete in the regional competition. Students will have the opportunity to win various prizes including cash prizes ranging from \$100 - \$5,000. Students will also be members of Junior Achievement and have the opportunity to win various scholarships. College Credit Available Through End of Course Exam - University of Iowa

501 Marketing Credit: 0.5

Marketing is one of the most important functions in the modern American company. Companies spend billions of dollars each year in advertising and that is just one aspect of the marketing pie. The course will cover how marketing impacts society, major principles of marketing, marketing plans and strategies, legal issues, how to use market research to form marketing strategy, and career options available in marketing.

503 Marketing 2 Credit: 0.5

Prerequisite: Marketing I.

Marketing 2 is a continuation from Marketing I and is one of the most important functions in the modern American company. Companies spend billions of dollars each year in advertising and that is just one aspect of the marketing pie. The course will cover how marketing impacts society, major principles of marketing, marketing plans and strategies, legal issues, how to use market research to form marketing strategy, and career options available in marketing.

469 Mock Trial Credit: 0.5

Pre-requisite: C&C Law

Mock Trial allows high school students to experience the courtroom in a hands-on mode. The mock trials are set up and structured just like a real court, bound by the same rules. This will help students know exactly what role each of the different people in a court (judges, lawyers, witnesses, etc.) have in the justice system. Students in the course are expected to participate in mock trial competitive activities in the Cleveland area.

504 Sports Marketing Credit: 0.5

The field of sports and entertainment marketing is rapidly growing. Many colleges, universities, and high schools offer specializations in sports and entertainment marketing. In this course, students will explore the intriguing world of sports and entertainment from the perspective of marketing. Through the management principles practiced by successful businesses in the sports and entertainment fields, Sports and Entertainment Marketing covers topics such as leadership, finance, product management, human resources, legal and ethical issues, managing change, and customer relations.

Computer Program

299 AP PC Principals Credit: 1
Weighted as AP/CCP

AP Computer Science Principles introduces students to the central ideas of computer science, inviting students to develop the computational thinking vital for success across multiple disciplines. The course is unique in its focus on fostering students to be creative and encouraging students to apply creative processes when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

289 JAVA Credit: 0.5

The student will be able to identify the major hardware and software components of a computer system, their relationship to one another, and the roles of these components within the system. This course will teach students to design and implement computer based solutions to problems in a variety of application areas. The student will be familiar with and be able to use Java. The student will use and implement commonly used algorithms and data structures. The student will develop and select appropriate algorithms and data structures to solve problems.

287 Multimedia Credit: 0.5

This course introduces the student to the integration of computer graphics, video, and audio into multimedia presentations. As part of this course, students make use of a variety of equipment including color scanners, video camera, and digital cameras.

293 Network Essentials Credit: 0.5

By understanding how networks function and how we use them to communicate with each other, the student will learn how to build networks that work.

Engineering Program

850 Intro to Engineering Credit: 0.25
Introductory course to what is available in the Engineering Program

855 & 858 Tri-C Sp Top: Single Board Comp & Unmanned Aerial Vehicles Credit: 2
Weighted as AP/CCP

EET-2812 Special Topics: Single Board Computers and Applications (RaspberryPi)

EET-2530 Unmanned Aerial Vehicles (Drone)

06 Semester Credits

Semester 1: Introductory course on Single Board Computers (SBC) with an emphasis on embedded applications.

Semester 2: Addresses the emerging market for unmanned aerial vehicle (drones), their ethical use, safety issues, legal issues, electrical and mechanical components, on-board control systems, software and remote control.

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

286 & 288 Tri-C 3D Modeling AutoCAD and Solidworks Credit: 1
Weighted as AP/CCP

MET-1230 Drawing & AutoCAD & MET-2601 3D Solid Modeling

Apply visualization skills in the interpretation of orthographic projections and pictorial drawings.

Manual drafting as well as use of CAD system to accomplish drafting tasks are emphasized. Covers special terms and definitions used in computer-assisted drafting, the roles technical drawings play in production, manufacturing and products design process. AutoCAD solid and surface model for product development, optimization of design and design documentation. Complete set of production drawings created using 3D drawing environments. Principles of parametric design, and functional assemblies directly applied. Emphasis tailored to 3D modeling for enhanced part description.

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

850&851 Tri-C Introduction to Robotics Credit: 1.3
Weighted as AP/CCP

EET-1100 Introduction to Robotics

EET-1150 Basic Robotics with Math

Semester 1: Introduction to direct current circuits, binary and hexadecimal numbering systems, signed numbers and elementary programming language statements (confined to programming a robot in laboratory component). Semester 2: Course provides an introduction to robotic principals using C programming with an emphasis on math.

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

English Program

43 Honors British Literature Credit: 1

Weighted as Honors

The concentration of this course is on the major works of the British Isles from the Middle Ages to the middle of the 18th century. Students will be exposed to historical changes in the English language and the evolution of British Literature. Composing formal and informal essays for a variety of purposes also is a subject of study. May be taken in a half year format with World Literature Survey.

45 British Literature Credit: 1

The concentration of this course is on the major works of the British Isles from the Middle Ages to the middle of the 18th century. Students will be exposed to historical changes in the English language and the evolution of British Literature. Composing formal and informal essays for a variety of purposes also is a subject of study. May be taken in a half year format with World Literature Survey.

15 English I Credit: 1

Establishing a foundation for future English studies, this course provides the student with comprehensive background in the theory and application of standard English grammar. Students begin the writing program also, utilizing their knowledge of grammar to aid in producing a variety of compositions in length and purpose. Such composition skills as organization, paragraph structure and development form the basis of the composition section. Finally, students will begin their study of literature with exposure to a variety of myths, short fiction and poetry.

25 English II Credit: 1

The student continues his study of literature and composition in this course, building closely on the freshman year. The student will examine all major genres, with an emphasis on long fiction, poetry, the essay and classical literature. In addition, Shakespearean drama is introduced. The writing process makes up a significant part of this course as well, with frequent essay assignments providing opportunities to improve mechanics and structure.

35 English III Credit: 1

This course surveys American writings from the 17th century to today. Selections illustrate the variety of genres and temperaments which engaged American authors at various times. The student will also continue his study of composition by writing essays in several expository modes and revise them as needed.

13 Hon English I Credit: 1

Weighted as Honors

This course will introduce the student to the structure and impact of the written word. Through immersion in a wide variety of literature, the student will gain an appreciation of the choices an author makes. In addition, by learning the fundamentals of English grammar, the student will understand how the language works, which will help him to produce frequent written responses to the course material. Finally, this course will prepare the student to master the basic procedures and formatting for research papers.

23 Hon English II Credit: 1

Weighted as Honors

The focus of this course is on critical analysis of literature, with frequent and intensive writing assignments complementing regular reading in all the major genres, especially fiction, drama, poetry and the essay. In addition, the student is introduced to Shakespearean drama and classical literature. Response and review are emphasized in the composition process.

33 Hon English III Credit: 1

Weighted as Honors

This Weighted as Honors treatment of American Literature covers the major authors, works, movements and philosophies of America from the Puritans through the 20th century. Cross currents in the arts, film, music and pop culture present a context for study. Two term papers and regular argumentative essays reinforce the student's critical skills.

051 & 052 NDC College Composition I & II Credit: 1

Weighted as AP/CCP

An intensive treatment of fundamental forms of composition, principles of grammar, sentence structure, followed by the preparation of a research paper. This is a two-semester course. To fulfill the General Education Requirement for Written Communication, the student must complete both semesters of the course. Listed as Notre Dame College EN 100 & EN 101

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

63 Creative Writing Credit: 0.5

The student will distinguish methods of writing various genres of literature, such as fiction, drama/film, poetry, journalism, and other forms. Each student will be required to maintain and turn in a portfolio demonstrating familiarity with each genre.

65 Film Credit: 0.5

In this course, students will learn about the history and art of film. Technological innovations as well as the business dimensions of the film will be explored as part of its cultural role in the world. Students will view classic and contemporary films from a wide range of eras and cultures with a view towards criticism and theory of cinema.

61 Journalism Credit: 0.5

This course has two goals: 1) to help the student analyze and critique mass media, including television, film, radio print and electronic communications, and 2) to offer the student opportunity to learn the particular methods of writing for the media, especially newspapers. In addition, the ethics, design, history and economics of publications will be presented. Students are encouraged to apply their skills to the school newspaper, and may receive additional credit for any work done on it.

5 Reading Development Credit: 1

This course provides students with sequential language instruction and extensive drill and practice in grammar, usage, and mechanics. Students will use a writing program and their knowledge of grammar to produce a set of compositions that vary in length and purpose. Composition skills, such as organization, paragraph structure and development, form the basis of the composition section of this course.

73 Speech & Debate Credit: 1

Speech and Debate aims to develop students' skills and confidence in the areas of public speaking, research, debate, and creative performance through exposure to the competitive events of California Speech and Debate. The course will cover both logic and argumentation as well as the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. Students will participate in in-class debates, performances, and all other activities required of students preparing for competition.

67 Sports Literature Credit: 0.5

This course is a survey of literature and composition based on the common theme of sport. In it, students will explore the mechanisms and impact of sport through the written word embodied in long and short fiction, the essay, poetry and drama. In addition, he will refine his composition skills and regularly write in the expository and creative modes. The student will also participate in daily discussion, group projects, and an individual research paper.

Fine & Performing Arts

631 Advanced Penmanship & Calligraphy Credit: 0.5

Even though computers have great fonts and characteristic perfection, artists who have developed great handwriting skills are in demand for wedding invitations and other special occasions. The beauty of great handwriting is a marketable skill these days. Not to mention a meditative and very satisfying hobby that pays and impresses. Join us to learn how to read, create, and write calligraphic artistry with a variety of media. Something you can use your whole life long. No “artistic” background or ability is required, just a desire to learn new skills and see results.

627 Animation Credit: 0.5

Prerequisite: Drawing I & II The student will learn about various types of animation, the history of animation, and mainstream and independent animators. They will further learn how to create simple animation both through freehand drawing and use of computers. Ideally, students will also create simple stop action animation. In the larger context, students will learn to write a story, develop characters, create storyboards, design a set and use sound. The elements and principles of design will be emphasized in a search for good composition and interesting visual imagery.

629 Animation 2 Credit: 0.5

Prerequisite: Animation

The student will learn about various types of animation, the history of animation, and mainstream and independent animators. They will further learn how to create simple animation both through freehand drawing and use of computers. Ideally, students will also create simple stop action animation. In the larger context, students will learn to write a story, develop characters, create storyboards, design a set and use sound. The elements and principles of design will be emphasized in a search for good composition and interesting visual imagery.

635 Art Studio Credit: 0.5

Prerequisite: Art teacher recommendation

Class designation for any variation of the above. Used for advanced students preparing portfolios for entrance into undergraduate art programs or for survey courses as an introduction to the arts.

621 Intro to Fin Arts Credit: 0.5

Introduction to Fine Arts is a survey course introducing the students to the four main components of the study of art education: Art History, Art criticism, Aesthetics and Art production. The course will include lecture, discussion, production, writing, masterpieces, and philosophies throughout the history of art.

633 Advanced Calligraphy 2 Credit: 0.5

This class continues the development of skills from Calligraphy I. Exercises include analysis and practice of advanced Calligraphic hands and lettering, including different types of letter decoration. The final project will involve a study and practice of letter and text illumination involving a variety of decorations, use of metal leaf, and overall artistic interpretation using a variety of advanced hands and lettering.

613 Drawing 1 Credit: 0.5

This half credit, studio elective focuses on the fundamentals of drawing for realism. The student will learn sighting skills, rendering to create the illusion of depth, and the components of good composition. Various techniques, such as pencil, charcoal, and pen and ink add variety to the course and enable each student to find his niche. All will learn to draw...No experience necessary!

623 Drawing 2 Credit: 0.5

This half credit, elective studio course builds on the skills learned in the Drawing I course. The student will delve into the creative process in a meaningful way. He will also have the opportunity to choose techniques that excite his creative spirit. Projects will be on a larger scale and will provide opportunities for the student to create portfolio pieces. New techniques, such as colored pencil and scratchboard, will be introduced.

617 Graphic Design Credit: 0.5

This half credit studio art elective gives the student a glimpse into the world of commercial art. Designing a CD cover, menu, book illustration or new super-hero is a sampling of potential "jobs" that the student may be assigned in this course. He will learn to work through projects, from brainstorming to creating production worthy pieces of art, in an organized and professional manner while experimenting with a variety of techniques including computer graphics.

615 Painting 1 Credit: 0.5

In this elective studio course, the student will learn about the exciting and beautiful world of color. He will create works of art using various techniques such as watercolor, acrylics, oil pastel, chalk and colored pencil. Works of great artists throughout history will be used to experience and understand the elements and principles of design and the art of creating good composition.

625 Painting 2 Credit: 0.5

Prerequisite: Painting I

The primary focus of Painting II is learning to paint with oils while building on the color and design theory and the techniques learned in Painting I. The student will expand his understanding and appreciation of art by experiencing and producing works of art that fulfill the criteria for expressionism and as social instrument. Works of historical significance will be used to support instruction. They will be experienced, reflected upon and criticized.

641 Portfolio Prep Credit: 1

Portfolio for Art Designation on Diploma - Year 1

643 Portfolio Prep 2 Credit: 1

Prerequisite: 641 Portfolio Prep

Portfolio for Art Designation on Diploma - Year 2

731 Choiristers Credit: 1

This course is open to all students, grades 9 through 12. Choiristers performs in all concerts.

734 Honors Chorus (Junior or Senior that has completed one year of Chorus) Credit: 1

Prerequisite: Audition Interview with director and audition are required. The Chorus will perform at all concerts and at various community evets

735 Chorus Credit: 1

Prerequisite: Audition Interview with director and audition are required. The Chorus will perform at all concerts and at various community evets

737 Jazz Band Credit: 1

Prerequisite: Audition This course is open to students who have at least two years of experience on their instrument. Interview with director and audition are required. The repertoire consists of, but is not limited to, advanced jazz styles, swing, bosa nova, pop and rock.

738 Honors Jazz Band (Junior or Senior who completed a one year of Jazz Band) Credit: 1
Prerequisite: Audition This course is open to students who have at least two years of experience on their instrument. Interview with director and audition are required. The repertoire consists of, but is not limited to, advanced jazz styles, swing, bossa nova, pop and rock.

745 Marching/Concert Band Credit: 1
This course is open to all students, grades 9 through 12. Students must have a minimum of one year experience on their instrument. The band performs at all home football games during the first semester and also performs in all concerts. Marching band members are expected to participate in the concert band during the second semester. (Meets Before School)

747 Honors Marching/Concert Band (Junior or Senior who completed one year of Marching/Concert Band) Credit: 1
This course is open to all students, grades 9 through 12. Students must have a minimum of one year experience on their instrument. The band performs at all home football games during the first semester and also performs in all concerts. Marching band members are expected to participate in the concert band during the second semester. (Meets Before School)

715 Music History and Theory Credit: 0.5
Music shapes the world we live in, but the forms and types of music have been vastly shaped by the technology and intellectual stimulus of the times. This course explores the historical contexts and styles of music from the Middle Ages through the present. Students will explore how music is formed and shaped from chant to polyphony as well as the basics of ear training, harmonic structure and orchestration.

713 Music Technology 1 Credit: 0.5
Music Technology I is an introductory course in the principles of audio and sound recording. Topics include: sound waves, acoustics and the audio spectrum, console and signal flow, equalization and compression, microphones and their placement, effects, digital audio formats, and MIDI basic concepts. Emphasis is placed upon advancing students' digital literacy and technical abilities through collaborative projects that challenge students to "think different". It is our goal to increase opportunities beyond the world of traditional music education and strict performance, to a world of career opportunities that exist in the 21st Century job market: Film scoring, commercial advertising, media production, acoustic engineering, TV/Radio production, e-media/web production, electronic systems design, music composing, and arranging.

714 Music Technology 2 Credit: 0.5
Prerequisite: Music Technology I
This is a continuation of Music Technology I and requires approval from the music department.

Health and Physical Education

305 Health Credit: 0.5

Health is a study in the concepts and basic knowledge of health and wellness. The primary focus is health maintenance and disease prevention. This includes an understanding of lifestyle disease and specific disease risks which can be modified and/or reduced through informed health decision-making, lifestyle change, and practice of positive health behaviors. Topics covered include but are not limited to healthy foundations, exercise and nutrition, systems of the body including disorders/diseases of the systems, effects of alcohol, tobacco, and drugs, and basic first aid techniques.

815 P Ed I Credit: 0.25

Freshman physical education is a course in which team sports, individual skills, and group activities will be stressed. Individual physical development will be addressed through a program of stretching and physical fitness exercises, strength development, fundamental weight training, and agility drills. Proper running form will be addressed. Techniques and skills needed to successfully participate in the sports covered in the course will be demonstrated, practiced, and evaluated before and/or during competition.

825 P Ed II Credit: 0.25

Sophomore physical education is a course which emphasizes team play, competition, and personal fitness. Activities include speed football, basketball, volleyball, speed softball, and dodgeball. Running and stretching will precede all activity periods. Personal fitness will be addressed through exercise, strength development, weight training, and agility drills.

Mathematics

215 Algebra 1 Credit: 1

Students study the Basic Algebraic concepts of set variables and properties, progressing through operations with fractions, algebraic operations, exponents, simplification of algebra expressions, including factoring, the theory of lines and slope, solution of quadratic equations by formula and graphing linear equations.

235 Algebra II Credit: 1

Prerequisites: Algebra I

The student will review Algebra I material, then explore graphing and solving of higher polynomials, rational functions, methods of substitutions, determinants, analysis and solution of word problems, finding roots of polynomials and using complex numbers. Also covered will be arithmetic and geometric progressions and probability, exponential and logarithmic functions and an introduction to Trigonometry.

241 AP Calculus AB Credit: 1

Weighted as AP/CCP

Prerequisite: Weighted as Honors Pre-Calculus

Students will study real numbers, limits, continuity, compute the derivatives of algebraic functions, explore tangent and normal lines, extremes of functions, mean value theorem, related rates, definite integrals, areas and volumes and arc length. Some applications to physics and mechanics will occur. This course will prepare students for the Advanced Placement exam in the spring.

225 Geometry Credit: 1

Prerequisite: Algebra I & Algebra II

Students will explore the concepts of plane geometry integrated with space and coordinate geometry linked with algebra. Angles, congruent and similar triangles, parallel lines, circles, properties of quadrilaterals and Pythagorean Theorem will be studied. Formulas for the areas of all basic plane figures will be used plus an exploration of logic structures, constructions, probability and ratios and proportions will be covered. An introduction to trig ratios will be used to solve all right triangles.

213 Hon Algebra I Credit: 1

Weighted as Honors

The students begin with a review of basic algebraic concepts of operations with fractions, exponents, and simplification of algebra expressions. Students continue through factoring, theory of line and slope, solution of quadratic equations by factoring, formula and completing the square, simplifying radicals and graphing linear and quadratic equations.

223 Honors Geometry Credit: 1

Weighted as Honors

Prerequisite: Weighted as Honors Algebra I (Algebra I with recommendation) The student will learn the basic postulates of Euclidean Geometry using the 2 column proof structure of logic involving angles, congruent and similar triangles, parallel lines, circles and arcs and Pythagorean Theorem integrated with constructions. Formulas for areas of all basic geometric plane figures will be learned and formulas for volumes of prisms, pyramids, cylinders, cones and spheres will be explored. Trigonometric ratios will be used plus sine and cosine laws, to solve new right triangles.

231 Intro to Calc Credit: 1

Weighted as Honors

Prerequisites: Weighted Honors Algebra I & Weighted Honors Geometry or Teacher Recommendation

The student begins with a review of Algebra I material, moving into graphing of rational functions, methods of substitution, determinants, analysis and solution of word problems, roots of polynomials and complex numbers, arithmetic and geometric progressions plus exponential and logarithmic functions. Trigonometric function, solutions of right triangles, radian and degree angle measure, double angle, half angle and addition formulas, law of sines and cosines plus inverse trigonometric functions and solutions of trigonometric functions are also covered.

245 Pre-Calculus Credit: 1

In this course the student is presented with solid geometry, trigonometry and an introduction to calculus. The emphasis is on trigonometric functions, solution of right triangles, radian and degree angular measure, law of sines and cosines, inverse trig functions and the solution of trigonometric equations. Analytic geometry, limits, continuity, derivatives of algebraic function and tangents and normal lines will be explored.

246 Stats & Probability Credit: 1

Prerequisite: Algebra II

Topics include elementary probability theory, concepts of descriptive statistics, discrete and continuous distributions, hypothesis testing, confidence intervals, sample sizes, correlation, regression, multi-nominal and contingency tables. Non-calculus based.

250 CCP Math Credit: 1

This is a placeholder math course for students who have completed AP Calculus and wish to take College Credit Plus on the campus of a college. This class must be approved by the academic dean. Please see the academic dean for details.

Sciences

325 Biology Credit: 1

This course is designed to provide a solid academic foundation in the life sciences. A balanced mixture of lecture materials and lab exercises will demonstrate basic biological concepts. Observation and reasoning skills will be taught.

335 Chemistry Credit: 1

Students taking chemistry should have encountered some basic chemical skills in their biology course. The purpose of this course is to give the student a more in-depth look at the theory underlying chemical principles. The student will also apply this knowledge to promote logical thinking and problem solving ability, with specified lab experiments to further enhance the knowledge and application of these principles.

337 Conceptual Chemistry Credit: 1

Same material as 335 with an emphasis less on mathematical computation for problem solving and more on visual conceptualization to analyze issues studied.

347 Conceptual Physics Credit: 1

Same material as 345 with an emphasis less on mathematical computation, but more on visual and conceptual solving methods to deal with issues studied.

323 Honors Biology Credit: 1

Weighted as Honors

This course is designed to provide a solid academic foundation in the life sciences. Students will develop a conceptual framework of biology through a balanced mixture of lecture materials and lab exercises. Comprehensive practice and assessment of science skills, with an emphasis on process, inquiry and reasoning will be provided. Topics covered correlate to the National Science Education Standards and include cell biology and metabolism, energetics, genetics, molecular biology, evolution, taxonomy, domain classification, kingdom characteristics and survey, and ecology. Higher order thinking and enrichment of concepts will enhance each topic covered.

317 Intro to Biology Credit: 1

This course is designed to provide a solid academic foundation in the life sciences. Students will develop a conceptual framework of biology through a balanced mixture of lecture materials and lab exercises. Comprehensive practice and assessment of science skills, with an emphasis on process, inquiry and reasoning will be provided. Topics covered correlate to the National Science Education Standards and include cell biology and metabolism, energetics, genetics, molecular biology, evolution, taxonomy, domain classification, kingdom characteristics and survey, and ecology. Higher order thinking and enrichment of concepts will enhance each topic covered.

333 Honors Chemistry Credit: 1

Weighted as Honors

This course emphasizes the science of Chemistry as part of our every life day and everything around us. This course is designed for the student who can apply strong math (algebra) and previous science concepts in the studying of chemistry as the science of matter, structure, and changes that occur with respect to energy. In studying chemistry as the cornerstone of the sciences, emphasis is placed on an in-depth comprehension of traditional chemical concepts and theories by engaging students in scientific inquiry. In preparation for challenges in scientific research, the course further introduces the development of problem solving and critical thinking skills. Lectures will include the practical applications of the chemical principles to real problems of chemists and engineers. The basic chemical principles are examined experimentally with both qualitative and quantitative labs.

343 Honors Physics Credit: 1

Weighted as Honors

This course uses algebra and trigonometry based mathematical models along with an introduction to calculus methods to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, electrostatic forces, electric fields electric potentials, direct current circuits, magneto-static forces, magnetic fields, electromagnetic induction, alternating current circuits, and light. Students who wish to pursue an engineering/scientific course of study at the university level should consider enrolling for this course. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem solving ability for the topics covered.

345 Physics Credit: 1

This course deals with the logical development of the basic principles of physics with the emphasis on mastering the fundamental concepts through specified laboratory work and problem solving.

347 Conceptual Physics Credit: 1

This course deals with the logical development of the basic principles of physics with the emphasis on mastering the fundamental concepts through specified laboratory work and problem solving.

369 Anatomy and Physiology Credit: 0.5

Human Anatomy and Physiology will involve the study of the form and function of the major body systems, and the cells and tissues of which they are composed. The principal level of focus is at the level of organs, systems, body organization, and how the integration of body system function is vital to homeostasis.

381,382 * 383/384 NDC College Chemistry I & II Credit: 1

Weighted as AP/CCP

An introduction to the principles of inorganic chemistry with emphasis on quantitative relationships, atomic and molecular structure, solutions, chemical equilibrium and chemical kinetics. A weekly one-hour problem/recitation session is required. Prerequisites: One-year high school chemistry. Listed as Notre Dame Course CH 111 & CH 114

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

365 Sports Medicine Credit: 0.5

The course focuses on three critical areas of sports medicine. Students will learn how athletic health care is safely organized and implemented. Students will gain an understanding of the injury process: from prevention, assessment, First Aid, treatment and rehabilitation of sports-related injuries. Students will also receive an introduction to sports anatomy and physiology as well as basic nutrition. As a component of the class, students will learn to perform the duties of a student trainer and will be assigned to provide coverage to one of the school's sports teams. The textbook used meets the requirements of the National Athletic Trainer Association.

Social Studies

423 AP U.S. Government Credit: 1

Weighted as AP/CCP

An in-depth study of the structures that make up the government of the United States. Students will study the triple levels of government on the federal, state and local levels. They will also be able to identify these structures, compare them to other systems around the world, and evaluate the effective roles of executive, legislative and judicial functions on all three levels. Students will gain experience in analyzing case studies, civil rights issues, continuing controversies in this area of study and further exploration in governmental structures and policy. In addition, the course covers an historical study of the foundations of Constitutional Law from English Common Law through the interpretations of John Marshall.

431 AP United States History Credit: 1

Weighted as AP/CCP

This course is an in-depth analysis of the history of the United States from 1828 through the present. The course concentrates on the ability of the student to engage in analytical discussion of course topics and helps the student realize the many layers that comprise historical study: demographics, economics, politics, geography, social history, sociology, and psychology. Scoring well on the AP exam allows the possibility of college credit for the course. Concurrent enrollment in Notre Dame College Course: HI 200

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

413 Honors World History Credit: 1

Weighted as Honors

The course seeks to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and the development of analytical skills. The course highlights the nature and changes in international societal frameworks and their causes and consequences, as well as comparisons among major societies. The course builds on understanding cultural, institutional, geographical and technological issues that have greatly influenced world history. Students will also discuss varying interpretations of events by historians in working toward an understanding of the processes involved in understanding history.

425 U.S. Government Credit: 1

A study of the structures that make up the government of the United States. Students will study the triple levels of the government on the federal, state, and local levels. They will also be able to identify these structures and evaluate the roles of the executive, judicial, and legislative functions on all three levels. Students will gain valuable insight into the role of their congressional and state representatives and how they can involve themselves more fully in the political process. Students will study the historical foundations of the Constitution from English Common Law through the Supreme Court interpretations of John Marshall.

435 United States History Credit: 1

The course begins in the 1820s and studies United States history until the present. The course covers the following topics: Growth and Change (1790-1860), War and Reunification (1820-1900), A Nation Transformed (1860-1910), A World Power (1897- 1920), Prosperity and Crisis (1919-1939), World Conflicts (1921-1960), A Changing Home Front (1954-1978), and Modern Times (1968-Present).

415 World History Credit: 1

This course focuses on the development of man from prehistoric times to the rise of modern imperialism. We begin with the evolution of man and the development of civilizations. From there, we take a look at the different cultures of the world and examine their impact on history. Finally, the last section of this course examines the development of European history and how it has shaped the growth of the world. The course ends with the students studying the effects of modern imperialism and how this and other key events will lead to World War I.

441 AP European History Credit: 1

Weighted as AP/CCP

The methodology for this course imitates that of the AP United States History courses with the emphasis here being an in-depth look at the political, social, economic, and religious constructs of European history from Medieval Kingdoms of the 11th century to the fall of the Berlin Wall. The course also includes preparation for the College Board Exam, for which scoring well allows for the possibility for college credit.

Concurrent enrollment in Notre Dame College Course: HI 100

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.

465 Current Affairs Credit: 0.5

This elective course explores a wide variety of issues existing in the world today. Among the topics discussed are: gun control, education, violence, alcohol and drug issues, the media, censorship, race relations and the government. Newspapers and weekly magazines are used as source materials and the student will be encouraged to develop opinions and viewpoints through class participation and essay writing.

466 Current Affairs II Credit: 0.5

This is a second semester of Current Affairs (465).

463 Psychology Credit: 0.5

This course is designed to increase students' knowledge about themselves and others. It develops an appreciation of the scientific method in the investigation of cause and effect relationship in human behavior.

461 Sociology Credit: 0.5

This course studies the interaction between the individual and his social group and environment. It examines how society influences the individual and how the individual can influence society.

471 African American Studies

Credit: 0.5

This course is largely designed to introduce students to the major themes, issues, and debates in African American (AA) history, from its African origins to present day. Importantly, it serves as a general introduction to historical literature. Additionally, it forwards an overview of the AA experience through readings, discussion, film, collaborative learning, and music. Some of the specific topics covered include African antecedents, colonial & antebellum historical facts, the abolition movement, the black experience in America, the Civil War, emancipation and the proclamation thereof, segregation of the AA and other races, racial understandings, black culture, today's obstacles, popular culture, political movements, and the contemporary involvement. Ultimately, students should gain an understanding of how African Americans lived, worked, socialized, and defined themselves in American society. "

Theology Program

915 Theology 1 Credit: 1

This course is an introduction to Biblical literature which examines both Hebrew and Christian Scripture. It aims to help students comprehend the wealth of Judeo-Christian spiritual tradition and challenges them to grow in their appreciation of God, themselves and other people. Includes an introduction to the life of St. Benedict, The Order of St. Benedict, and Benedictine High School.

925 Theology 2 Credit: 1

Sacramental theology, liturgy and prayer are studied with an emphasis made to relate one's sacramental life to the choice of vocation. Public and private worship of the Roman Catholic Church and its incorporation into the life of the student is included in the first semester. The second half of the year is dedicated to the study of Church history. Church history covers the historical life and meaning of the people of God from the time of Christ to the present.

935 Theology 3 Credit: 1

Theology III is the study of moral theology. The person of Jesus is fundamental to Christianity. Therefore this class outlines how we as persons must act like Christ if we profess the Christian faith. Students will explore the elements that constitute a true Christian mode of living in today's world. They will learn the knowledge and skills that will enable them to compare and contrast with sound argument the teachings of the Church as to proper human behavior and what may be seen as "right living" in today's society. Students will learn not only what the Church teaches with regard to morality, but why it holds the positions that it does. This course also hopes to begin to form within the student a conscious effort to reflect on both his actions and, perhaps more importantly, the thought processes that lead to those actions. The course will also seek to instill within the student a solid sense of responsibility for both his thinking and his actions with regard to God, himself, others, and the environment.

945 Theology 4 Credit: 1

The Theology curriculum for senior year involves 4 major topics in a rotating quarter format: Christian Apologetics, World Religions, Apocalyptic Literature, and Catholicism in Novel and Film. The segments will be taught by different instructors as four distinct courses.

World Languages

114 French 1 Credit: 1

Students will develop the four foundational language acquisition skills: listening, speaking, writing and reading. Students will be proficient in the present tense and familiar with the past tense.

124 French 2 Credit: 1

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will be proficient in the present, past and imperative tense.

134 French 3 Credit: 1

Weighted as Honors

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will be proficient in the imperfect, subjunctive, future and conditional tenses.

144 French 4 Credit: 1

Weighted as Honors

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will review all learned verb tense and develop greater active and passive comprehension skills. Students will read and analyze short written samples and will be able to give oral presentations in the target language

112 German 1 Credit: 1

German I is offered to acquaint students with the German language, enable them to carry on a simple conversation in German, and to familiarize them with the culture of the German speaking peoples.

122 German 2 Credit: 1

German II is an elective course open to qualified upperclassmen. It is a continuation of the study of the German language, grammar and culture.

132 German 3 Credit: 1

Weighted as Honors

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will be proficient in present, past and future tenses.

142 German 4 Credit: 1

Weighted as Honors

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will review all learned verb tense and develop greater active and passive comprehension skills.

139 Greek 1 Credit: 1

Prerequisite: Latin II

The first year of Attic Greek is designed to allow the student to read, speak and write in ancient Greek. It is general introduction to the syntax, vocabulary and translation of Homer, Sappho, Alcaeus, Aeschylus, Sophocles, Euripides, Herodotus, Xenophon, Demosthenes, Plato and Aristotle. This course serves and a proximate preparation for Xenophon's Anabasis.

149 Greek 2 Credit: 1

Greek II is a continuation of the syntax and vocabulary and translation of Greek I. It primarily will serve as a reading course in Xenophon's Anabasis and selections from Herodotus, and readings from the Koine New Testament.

118 Latin 1 Credit: 1

Latin I is the formal introduction into Classical Golden Age Latin. It stresses the syntax, vocabulary and reading skills needed to translate and comprehend the classical authors of antiquity

128 Latin 2 Credit: 1

Latin II is a continuation of the first year and stresses the more formal and advanced grammar found in those same classical authors. It introduces the student to the readings of Caesar and Sallust.

138 Latin 3 Credit: 1

Weighted as Honors

Latin III reviews the grammar of the first two years. It introduces the student into the reading of the works of Cicero and the poet Ovid and other classical authors. This course serves as a preparation for the AP Latin Literature Test, if the student desires to take this exam.

148 Latin 4 Credit: 1

Weighted as Honors

Latin IV is the final course in the students' study of Latin. It is the proximate preparation for the Virgil AP Exam given in the spring of that academic year. The myths, history, meter and prosody of the Aeneid are studied in this course of Latin Poetry.

116 Spanish 1 Credit: 1

Students will develop the four foundational language acquisition skills: listening, speaking, writing and reading. Students will be proficient in the present tense and familiar with the past tense.

126 Spanish 2 Credit: 1

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will be proficient in the present, past and imperative tense.

136 Spanish 3 Credit: 1

Weighted as Honors

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will be proficient in the preterit, imperfect, subjunctive, future and conditional tenses.

146 Spanish 4 Credit: 1

Weighted as Honors

Students will continue to develop the four foundational acquisition language skills: listening, speaking, writing and reading. Students will review all learned verb tense and develop greater active and passive comprehension skills.

CCP Course

953 CCP Course (Online or Off Campus) Credit:
Weighted as AP/CCP

Benedictine offers the possibility take college courses either online or on the college campus. It the students responsibility to choose a college and course that fits his needs. In addition it is also the responsibility of the student to meet all application deadlines for that colleges CCP program. These deadlines are typically before March. The student then must work with his parents to notify the State of Ohio and his counselor as well as apply for funding through the state of Ohio.

College Credit Plus Requirement: You must attend the CCP meeting during the 2nd semester Parent Teacher Conferences as well as apply for CCP funding in order to be scheduled for this class.