



DCC

High School
Course Catalog

2018-19

THEOLOGY DEPARTMENT

4 credits required for graduation

Required Service Component – see Student Handbook

THEOLOGY 9 – SACRED SCRIPTURE

- *1 credit --- required*

Old Testament: An introduction to the “Word of God”, this course will help students investigate the study of the Bible and its meaning, covering the Pentateuch, historical books, prophets and wisdom. New Testament: This course covers the foundations of the Christian faith as presented in the Gospels, Acts of the Apostles, the Epistles and the Book of Revelation.

THEOLOGY 10 – CHRISTIAN MORALITY

- *1 credit -- required*

This course integrates into a moral framework these concerns: the principles of Catholic morality, the application of these principles, and personal and social accountability in light of the teachings of Jesus. The demands of the Christian life are clearly presented, drawing upon a Christian understanding of the human person, the scriptures and Christ.

THEOLOGY 11 – THE CHURCH AND SACRAMENTS

- *.5 credit -- required*

This course considers the mission of the Church to teach, govern and sanctify. This is done primarily through a historical perspective of the Body of Christ through the ages. A brief overview of the sacraments is presented.

THEOLOGY 12 – CHRISTIAN LIVING

- *.5 credit -- required*

This course is designed to integrate all prior theology courses toward growth in the virtue of love. It will attempt to uncover the nature of authentic Christian love and show how love can be lived out in marriage, religious vocations and the single life.

LITURGY AND SACRAMENTS

- *.5 credit – required -- Juniors*

This course will explore the theology of the sacraments, their meaning and rituals as expressed in relationship to the Liturgy in the Church

CHRISTIAN SPIRITUALITY

- *.5 credit – required – Seniors*

This course studies the history of the Christian spiritual tradition. Great spiritual thinkers such as Francis of Assisi, Theresa of Avila, Ignatius of Loyola and others are studied. The study concludes by looking at methodology and styles of spirituality

PRAISE AND WORSHIP TEAM

- *1 credit – elective – Sophomores, Juniors, Seniors*

Designed to involve and excite the students about the liturgy, they will search for new songs, write prayers, create the liturgical environment, among other things.



ENGLISH DEPARTMENT

4 credits required for graduation

ENGLISH 9 – STRUCTURE AND THEME

- *1 credit -- required*

Freshman English is an introductory course to the basics of literary terminology with emphasis on the genre approach including the short story, novel, poetry, drama and mythology. This course also covers writing, vocabulary skills and oral presentation. Reports and summaries using research techniques are stressed. Required reading supplements the course work.

ENGLISH 10 – AMERICAN LITERATURE

- *1 credit -- required*

Sophomore English consists of a study of the development of American Literature from early exploration of the 1500's to the mid-20th century. Composition work consists of essay writing in formal styles. Students practice speaking skills via group projects. Students also work on vocabulary and are introduced to various types of test-taking techniques to be proficient on standardized competency tests.

ENGLISH 11 or ADVANCED ENGLISH 11 – BRITISH LITERATURE

- *1 credit -- required*

British Literature is a survey course of British literature from 450 to the present. Composition units stress technical skills, work on a research paper and beginning the critical essay. Vocabulary development and test-taking techniques help prepare students for the College Boards and for writing effective essay answers.

Advanced: students will fulfill the goals of English 11 and read and write extensively beyond the basic requirements.

(Advanced elective with permission of the instructor)

HONORS ENGLISH 12

- *1 credit -- elective*

Senior Honors English includes a brief survey of world literature. The primary focus is on Western drama and extensive composition.

(Prerequisite: permission of the instructor)

COMMUNICATIONS

- *.5 or 1 credit – elective – Juniors & Seniors*

This course is an overview of the ways modern man communicates using media. Film study and a critical look at modern media and their techniques will be complemented by the class creating and delivering their own communication projects.

COMPOSITION

- *.5 credit – elective – Juniors & Seniors*

OR

COLLEGE COMPOSITION I and II

- *.5 credit each – Juniors & Seniors*

Composition will focus on a development of student writing skills in technical and creative areas. A variety of approaches to reports, term papers, short stories and poetry will help students express themselves more effectively. This course may be taken for college credit through Butler Community College.

(Note: Students may register for either the fall or spring semester. 1st semester comp must be completed prior to taking 2nd semester)

(Prerequisite: permission of the instructor)

CREATIVE WRITING

- *1 credit – elective*

Creative writing is an English elective geared to teach students the basics of writing extensively in fiction, non-fiction, poetry and drama. We will examine samples from literature to inspire our work. Students will create a portfolio of their works to demonstrate their best effort.

ADVANCED TOPICS IN LITERATURE

- *.5 or 1 credit – elective – Juniors & Seniors*

This course is intended for Juniors and Seniors and centered on topics such as: dystopian societies, life and death, the function of art in society and other student-identified “big questions,” as these topics appear in literature, art, music, film, etc.

(Prerequisite: permission of the instructor)

AP* ENGLISH LITERATURE AND COMPOSITION

- *1 credit – elective -- Seniors*

This year-long course is intended for seniors and will allow students to read and respond to a variety of complex readings in fiction and non-fiction to equip them with college-level reading and writing skills and the skills to take the May Advanced Placement English Literature and Composition Tests for college credit. Some summer reading will be required.

(Prerequisite: permission of the instructor)

APPLIED JOURNALISM

- *.5 or 1 credit – elective – Sophomores, Juniors & Seniors*

A combined staff will produce the student newspaper (The Cardinal), and the school’s yearbook (The Katholikon). Students will receive assignment of a section editorship for one of the publications, and will be expected to contribute to other areas as needed. Students electing this course will deepen their writing skills, plan layout, develop their abilities as reporters and become proficient in photojournalism and technical production. This course is open to juniors and seniors.

(This course is sponsored by the English Department but cannot be taken to fulfill graduation requirements)

SOCIAL STUDIES DEPARTMENT

4 credits required for graduation

SOCIAL STUDIES 9 – U.S. HISTORY I

- *1 credit -- required*

Students will learn the history of our nation from the pre-Columbian period to the beginning of the 20th Century. Topics covered include the American Revolution, Native American policies, slavery and the growth of the American economy, and the Civil War and its aftermath. Themes discussed throughout this class include slavery, the impact of technology on society, and movement of people.

SOCIAL STUDIES 10 – U.S. HISTORY II

- *1 credit -- required*

Students will learn the history of the United States from the turn of the 20th Century to the first decades of the 21st Century. Topics covered include World War I, World War II, the Cold War, the Civil Rights movement, the Conservative movement, and terrorism. Themes discussed throughout the class include the business cycle, the impact of technology on society, changing role of women in society, and the military industrial complex. This class also has an emphasis on evaluating historical research and using quality sources in various research projects.

SOCIAL STUDIES 11 – WORLD CULTURES

- *1 credit -- required*

Knowing about the past is important in understanding the present and future. The World Cultures course is designed to aid in the understanding of the various ways of life of other peoples around the world. Students are exposed to numerous resource materials from pre-history to modern times. The major goal of the course is not only to instill an appreciation of world culture alone, but an appreciation of history in general.

ECONOMICS

- *.5 credit – required -- Seniors*

The economics course is designed to introduce students to the various economies of the world and, in particular, capitalism. This is a practical study of our economy, presenting basic instruction in financial decision-making.

AMERICAN GOVERNMENT

- *.5 credit – required – Seniors*

This course introduces students to the United States government in comparison to other governments around the globe. The structures of governments are evaluated along with various leaders. Students are exposed to the three branches of government and an in-depth study of the Constitution. Students also look at the political system and study the decision-making process of government officials.

AP* U.S. HISTORY

- *1 credit – elective – Juniors & Seniors*

AP American History is designed for qualified Juniors and Seniors willing to challenge themselves. The course will cover American History from pre-Columbian civilizations to the turn of the 21st Century. Extensive reading will be required to cover a wide body of work, and to also delve deep into topics including the American Revolution, the labor movement, American Imperialism, Progressivism, involvement in World Wars, the Cold War, and the Civil Rights movement of the 1960's. Students are expected to complete reading assignments, projects, and homework outside of class on a daily basis.

(Prerequisite: 90% or higher in U.S. History I and II and permission of the instructor)

PSYCHOLOGY

- *.5 credit – elective – Juniors & Seniors*

This course for juniors and seniors is offered to students interested in the study of human behavior and the mental processes. Psychology attempts to explain the learning process, human development, personality, abnormal behavior and therapies for behavior.

PSYCHOLOGY II

- *.5 credit – elective – Juniors & Seniors*

This course is an extension of Psychology I and goes further in depth on human behavior.

(Prerequisite: Psychology I)

LAW

- *.5 credit – elective – Juniors & Seniors*

This course allows students to examine our laws and the legal system. Some of the areas studied include criminal law, consumer law, contract law and family law. Students will have a basic knowledge of law, which is needed in today's society.

SOCIOLOGY

- *.5 credit – elective – Juniors & Seniors*

This course is for juniors and seniors. Sociology is the study of groups of humans and the social forces that influence collective behavior. This class will explore how groups, organizations and societies function. Students will look at crime and violence, families, health and illness, social classes, religion and communities. Students will use current events, student created surveys and their texts to aid in study.

MATH DEPARTMENT

4 credits required for graduation

BASIC ALGEBRA I

- *1 credit*

Students will be refining mathematical skills, such as fractions, decimals, percent, computations with rational numbers, number theory, formulas, and equations leading into the skills of Algebra I.

(Prerequisite: Math I or permission of the Math Department)

ALGEBRA I

- *1 credit*

This course covers solving equations, inequalities, functions, and systems of linear equations; also working with polynomials. The skills are applied to solve verbal problems appropriate for this level.

(Prerequisite: Pre-algebra)

BASIC GEOMETRY

- *1 credit*

This course introduces students to the basic vocabulary of geometry. Topics will include the measuring of and the relationships between lines and angles, area and perimeter, ratio and proportions, triangles, quadrilaterals, and circles. Only Algebraic Proofs will be examined.

(Prerequisites: Basic Algebra II or permission of the Math Department)

GEOMETRY

- *1 credit*

This course deals with familiarizing students with the extensive vocabulary of geometry. Other topics include special relationships with angles, congruent triangles, polygons, quadrilaterals, parallelism, similarity, ratio and proportion, circles, area and volume. Proofs are covered in this class.

(Prerequisite: Algebra II or in conjunction with Algebra II)

HONORS GEOMETRY

- *1 credit*

This course deals with familiarizing students with the extensive vocabulary of geometry. Other topics include special relationships with angles, congruent triangles, polygons, quadrilaterals, parallelism, similarity, ratio and proportion, circles, constructions, area and volume. Rigorous proof is emphasized.

(Prerequisite: Honors Algebra II or in conjunction with Algebra II; minimum grade of 80 for Alg I or II and permission of the instructor)

BASIC ALGEBRA II

- *1 credit*

Basic Algebra II uses the same book and covers the same topics as Algebra II. The difference is that the most basic problems are stressed and some parts of topics are eliminated as to give students more time to master the material.

ALGEBRA II

- *1 credit*

As Algebra I is linear, Algebra II goes beyond linear. Topics include: quadratic functions, polynomial functions, functions involving roots and radicals, rational functions, exponential functions and logarithmic functions. Analytic and graphing capabilities are stressed.

(Prerequisite: Algebra I and Geometry)

HONORS ALGEBRA II

- *1 credit*

Students learn a number of techniques dealing with algebraic functions, quadratic equations, simultaneous equations and exponents. Application of these techniques to verbal problems is stressed.

(Prerequisite: Honors Algebra I, with minimum grade of 80, and permission of the instructor)

TRIG/STATS or TRIG/STATS HONORS

- *1 credit*

In this course, Trigonometry topics are taught in the fall, and Statistics topics are taught in the spring. Trigonometry topics include right triangle trigonometry, trigonometry in all types of triangles, trig functions, radian measure and identities

(Prerequisite – Trig/Stats: Algebra II and geometry; Trig/Stats H: Algebra II H and Geometry H, with minimum grade of 80 and permission of the instructor)

PRE-CALCULUS

- *1 credit*

Pre-Calculus topics include vectors, sequences, exponential and logarithmic functions, rational functions, and conic sections and their graphs, systems of equations and inequalities.

(Prerequisite: Trig/Stats or in conjunction with Trig/Stats and permission of the instructor)

AP* CALCULUS

- *1 credit*

Taught in conjunction with St. Francis University, this course covers limits, continuity, the derivative and its applications, the integral and its applications, and inverse functions including natural logs and exponents. Students are prepared to take the AP Calculus AB exam in May.

(Prerequisite: Trig, Pre-Calculus and permission of the instructor)

ACCOUNTING

- *1 credit*

This course gives students an understanding of the basic principles of accounting through three types of businesses: proprietorship, partnership and corporation. Each type of business is presented in a complete accounting cycle covering analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries

PERSONAL FINANCE

- *1 credit*

This course is an advanced and in-depth study of the mathematics needed in everyday life. Students completing this course will have the knowledge to complete many of the business transactions they will encounter after high school such as budgeting, balancing a checkbook and purchasing a car.



SCIENCE DEPARTMENT

4 credits required for graduation

BIOLOGY I

- *1 credit – required -- Freshmen*

Biology offers the student a solid foundation for the study of life on earth. Lab work helps demonstrate the activities of a biologist. The course strives to help the student develop an understanding of the processes by which information has been obtained. Emphasis is placed on creating an interest in biological learning outside as well as inside the classroom.

CHEMISTRY I

- *1 credit-- elective*

This course is designed to provide students with a basic understanding of chemistry, including the major theories, terminology, and mathematical relationships. Emphasis is placed on laboratory work in which students gain the skills and knowledge of techniques used in chemistry. Attention is given to the role of chemistry in daily life and the practical applications of scientific principles.

(Prerequisite: "C" in Biology I and "B" in Algebra I)

ADVANCED CHEMISTRY I HONORS

- *1 credit -- elective*

This course is designed to provide the honors student with an in-depth understanding of chemistry, including the major theories, terminology and mathematical relationships. Emphasis is placed on laboratory work in which students gain the skills and knowledge of techniques used in chemistry.

(Prerequisite: 90% or higher in Algebra I and permission of the instructor)

AP* CHEMISTRY II

- *1 credit -- elective*

AP* Chemistry is a study of the behavior of matter and the methods used to describe that behavior. Through discussions, student projects, lab work and equations, students are taught to describe and predict chemical behavior both quantitatively and qualitatively. It offers the foundations that allow students not only to understand the chemistry presented, but also to extend this understanding to new situations, including nuclear, thermal, organic, kinetics and biochemistry.

(Prerequisite: 90% or higher in Chem I Honors and permission of the instructor)

ANATOMY AND PHYSIOLOGY

- *1 credit -- elective*

This course introduces students to the structure of the human body and the systems that allow the body to function. This course will especially benefit those students who are interested in the medical fields.

(Prerequisite: "B" in Biology I and permission of Science Department)

MEDICAL TECHNOLOGY

- *1 credit -- elective*

Students will be exposed to four different Health Science Career Pathways: Cardiac Diagnostics, Pathogens and Disease, Pharmacology and Sports Medicine. The Health Science Career Pathways program is designed to specifically address the National Health Care Skill Standards. Each unit represents over 15 weeks of content and hands-on skill building activities. Lessons and computer-based assessments are presented with a simple multimedia interface. All necessary equipment, published materials, consumable supplies, software, and tools are included in each unit.

ECOLOGY

- *1 credit -- elective*

This course concentrates on the complex relationships between plants, animals and the abiotic aspect of various ecosystems. It examines the environment in the framework of physical and biological principles. We study the life patterns seen in nature, focusing particularly on the temperate deciduous forest, our own ecosystem. Special emphasis is placed on appreciating the dynamic mechanisms involved in its extensive biological diversity.

AP* BIOLOGY (College Credit)

- *1 credit -- elective*

The basis of this course is the integration of **The Eight Major Themes of AP Biology** within the **Three Major Topics**. This course revolves around a central theme of evolution of life on earth. We take a non-linear approach to the text references. We begin by coordinating chapter material from the central theme of evolution. A student is familiar with most of the text by the end of the course, but not as yet an expert. We begin with an introduction to science education as a process involving observation and experimentation which includes data collection and measurement. Our first topic of discussion is the introduction into the levels of biological organization from the biosphere to the ecosystems, communities, populations, organisms, organs and organ systems, tissues, cells, organelles, molecules and atoms. We continue with the history of life on earth, the evolution of the cell and its structures, and the evolution and organization of multi-cellular organisms that form the organized phyla. There is a regulation and communication that exists between an organism's cells, tissues, organs and organ systems. And, as well, there is a dynamic interdependence of organisms in an environment. This community interdependence requires communication and regulation among the populations within it.

(Prerequisite: "B" in chemistry/Permission of the instructor)

BASIC PHYSICS

- *1 credit -- elective*

This course surveys the major topics of physics – motion and energy, waves, electricity and magnetism and modern technology. It develops science skills and their application to everyday life. Mathematical applications are kept to a minimum.

(Prerequisite: Algebra I)

HONORS PHYSICS

- *1 credit -- elective*

Physics deepens the student's understandings of forces, motion and energy, through the study of velocity, acceleration, momentum and work, along with waves, atomic structure and nuclear physics. Many scientific laws will be illustrated to show how many everyday experiences are governed by the laws of physics.

(Prerequisite: "B" in Chemistry and Trig and Permission of the instructor)

AP* ENVIRONMENTAL SCIENCE

- *1 credit -- elective*

This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Its emphasis is a concentration on the biosphere, ecosystems, the materials needed to keep them running smoothly and the human processes that curtail them.

The following themes provide the framework for this course: science as a process, energy conversions throughout the planet, biogeochemical systems of the planet, human effect on natural systems, cultural and social consequences of human activity, and the (hopeful) achievement of sustainable systems.

(Prerequisite: "B" in Biology and permission of the instructor)

FOREIGN LANGUAGE DEPARTMENT

2 years required for graduation

SPANISH I

- *1 credit*

This course is a basic presentation of the Spanish language with background provided in geography, civilization and culture. The students will learn basic pronunciation and sentence patterns for communication as well as reading and writing basic paragraphs.

SPANISH II

- *1 credit*

This second level expands upon the first year and provides for more conversation through vocabulary development and reading. Culture is researched more on this level. Emphasis is placed on oral and listening proficiency through real-life situations.

(Prerequisite: Spanish I)

SPANISH III & SPANISH IV

- *1 credit each*

These levels offer expanded conversation, reading, writing and grammar study through literary works of different countries. Emphasis is placed on oral proficiency and writing skills. More real-life situations are included to enable the student to deal with travel, shopping, banking, dining and other aspects of daily life in the particular language. These classes will be taught as much as possible in the target language.

(Prerequisite: Spanish II or III and permission of the Spanish teacher)

FRENCH III & IV

- *1 credit each*

This advanced course offers intermediate students the chance to expand their capabilities to communicate with native speakers in real-life situations; such as, travel, dining and shopping. Additional time should be spent reading and writing French as compared to the first two courses offered.

(Prerequisite: French II and permission of the instructor)

SPANISH FOR HEALTH CARE PROVIDERS

- *.5 credit – elective*

This course is designed for students who are planning to continue their education in the health care field, i.e. physicians, nurse practitioners, physician assistants, nurses, hospital technicians, physical therapists, and medical administrators. This course is offered to students in 10th, 11th and 12th grade. Vocabulary lists have been selected to correspond with common health care related conversations. Before taking this class, a student should be accustomed to memorizing and assimilating vast quantities of information.



FINE ARTS DEPARTMENT

1 credit required for graduation

ART I

- *.5 or 1 credit -- elective*

Art I is a course that provides an introduction to art through a multi-media experience. Students will learn and apply the elements and principles of design to produce creative art projects that reflect their understanding of these concepts as well as personal expression. Students will encompass the arts through production, history, criticism, and aesthetics. This course will result in measurable gains for all students in knowledge and skills for a foundation of learning for a continued study in the arts.

ART II

- *.5 or 1 credit -- elective*

This course is a continuation of Art I, with emphasis placed on painting, drawing, and three-dimensional projects. Art II will emphasize making art as an ongoing process that involves the student in informed and critical decision making. Students will continue to encompass the arts through production, history, criticism, and aesthetics.

(Prerequisite: Art I)

STUDIO ART

- *1 credit -- elective*

This course is open to students who have completed Art I and Art II. Individual students will work with the instructor to develop projects that will broaden the student's experiences and/or in depth study of particular mediums or subjects. This course will consist of building both 2-D and 3-D portfolios.

(Prerequisite: Permission of the art teacher)

DRAMA

- *.5 or 1 credit -- elective*

Drama class provides students with training in public performance beginning with non-verbal communication and other rudimentary acting exercises and stage work. Students perform skits and plays for the student body and for the public as their acting skills develop.

(This course is open to members of all classes with preference given to upperclassmen, with a limit of 15.)

CONCERT CHOIR (CHORUS)

- *.5 or 1 credit -- elective*

All singers in grades 9 – 12 can learn vocal techniques and music reading. Song preparation is stressed. Performances are planned for various school occasions. Attendance is mandatory.

MUSIC COMPOSITION

- *.5 or 1 credit -- elective*

This is a class that focuses on students composing their own original music. It explores theory and technique through lecture, videos, listening, and hands on learning. Circle of Fifths, great composers (classic and modern day) clefs, pitch alteration, rhythm and meter, scales and modes, intervals and triads, are just a handful of the theoretical concepts covered in class. Students will write Psalms for our weekly mass and will have to compose and perform for various events throughout the school year. Instrument preferred would be piano or guitar.

BUSINESS & TECHNOLOGY DEPARTMENT

ADVANCED EXCEL & DATA BASE DESIGN

- *.5 credit – required -- Freshmen*

Students will learn that Excel is a powerful tool to assist in manipulating data efficiently. They will learn various functions to help organize and analyze within spreadsheets. They will make connections to capabilities of Excel and their other classes. Students will also learn how to design and create databases, work with tables, fields and records, sort and filter data, and set field properties and data entry rules.

INTRO TO 3D DESIGN AND WEB DESIGN

- *.5 credit – required -- Freshmen*

Learn to design and use a platform that is used across industries for 3D modeling. Create buildings, landscapes, and prototypes. This course will be an opportunity to explore concepts used in engineering. Students will also be introduced to HTML, which is the standard used to program web pages. Students will also learn to use a software editor and how to manipulate graphics. Each student will create a website that includes text and graphics, as well as complex elements like scripting and embedding.

---or---

MULTIMEDIA AND GAMING

- *.5 credit – required -- Freshmen*

Students will work with video and audio software to create projects that showcase the power of editing and manipulating media. They will also learn to work with YouTube and other online sources of audio and video as resources and platforms for sharing their creations. Students will also learn to program games with software that uses visual editors and behavior based logic systems.

INTRODUCTION TO PROGRAMMING

- *.5 credit – elective – Sophomore, Junior & Senior*

Students will learn to think like a programmer and use on-line programs to create programs in Java Script as well as drop and drag coding.

DIGITAL GRAPHICS AND DESIGN

- *.5 credit – elective – Sophomore, Junior & Senior*

Students will design/create graphics and will manipulate images. Digital students will gain the knowledge of advanced photo editing while creating many types of special effects. Key Skills: design concepts, composition, independent judgment and creativity, image editing, typography, optimizing and sizing images for the web and for print, file management and naming conventions. A portfolio will be created to show their work.

MARKETING & SOCIAL MEDIA

- *.5 credit – elective – Sophomore, Junior & Senior*

Students will study traditional marketing concepts. They will also understand the impact of social media on the Internet for building business connections, sharing information and collaborating online. Hands on projects for promotion will be part of the course.

MASTERING WEB DESIGN

- *.5 credit – elective – Sophomore, Junior & Senior*

Challenging hands-on projects will help you develop advanced Web skills. You will learn about Cascading Style Sheets, JavaScript, Dynamic and Reusable Content, and Client and Server Side Interactivity.

APP DESIGN

- *.5 credit – elective – Sophomore, Junior & Senior*

In this course, students will learn to design and develop mobile apps. The goal of the class is to enable students to independently produce fully functional app prototypes. This course operates in two distinct but related modes: development, wherein an app is made functional; and design, through which an app is made usable. Students will be expected to consider both modes when producing their apps.

CARDINAL CHATTER

- *.5 or 1 credit – elective – Sophomore, Junior & Senior*

This class produces the school's on-line newspaper. If you like to write, take pictures, or make movies, this is the class for you. You will learn what makes a good story and how to keep your fellow students and other DCC fans on top of the latest newsworthy events.

MICROSOFT OFFICE SPECIALIST CERTIFICATION

- *1 credit – elective – Juniors & Seniors*

This full year course reviews and leads students to mastery of the features and functionalities of Microsoft Office 2016 while preparing them for the Microsoft Office Specialist (MOS) certification program. Through video instruction interactive skills demonstrations, and unit-level assessments, students become proficient in Microsoft Word, Excel, Power Point, Access, and Outlook. By the end of the course, students will take the MOS certification exam.

ARCHITECTURAL DESIGN

- *.5 credit – elective – Juniors & Seniors*

Using *Autodesk Revit 2015*, an architectural building design software, this class will take a project based approach. Students will use architectural tools to develop a single family residence. The drawings start with the floor plans and develop all the way to photo-realistic renderings.

INTRODUCTION TO ENGINEERING

- *.5 credit – elective – Sophomores, Juniors & Seniors*

This course takes a hands-on approach to give an introduction to engineering. Students will learn the difference between science and engineering. They will learn the engineering algorithm and use it to solve problems through hands-on activities. Students will meet with engineers and experience careers available. The skills that this class strengthens, such as problem solving, trouble shooting and analytical skills, are beneficial in daily life.

COMPUTER AIDED DESIGN (CAD)

- *.5 credit – elective – Sophomores, Juniors & Seniors*

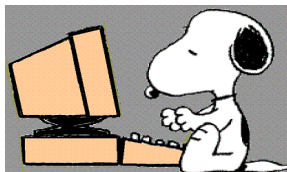
This course will take a ‘learn-by-doing’ approach to computer aided design. Students will learn Autodesk Inventor by beginning a basic level and advancing through drawing activities at the end of each chapter. Students will design objects that they will be able to hold in their hands with the use of a 3-D printer. The course requires no prior knowledge and will be essentially self-paced. This is a must-have for anyone considering a career in engineering.

ACCOUNTING

See description under math department

PERSONAL FINANCE

See description under math department



PHYSICAL EDUCATION DEPARTMENT

All students must earn one full credit in physical education in order to graduate. Students will be scheduled for an elective course opposite their physical education class. This choice will be based on student preference and the availability of the class based on the master schedule.

PHYS ED 12

- *.5 credit -- elective*

The physical education program will focus on various aspects of physical fitness. Activities include but are not limited to volleyball, soccer, football, basketball, hockey, lacrosse, and racquet sports. Each student will be evaluated on participation, fitness tests, and/or written tests

LIFETIME FITNESS

- *.5 credit – elective -- Seniors*

This exciting coed course explores a variety of health and fitness related topics and develops skills and habits that promote safe and healthy living throughout a student's life. Topics may include but are not limited to aerobics, weight training, nutrition, and first aid. A classroom setting combined with a traditional PE setting will be incorporated into one class.

GIRLS' AEROBIC FITNESS

- *.5 credit – elective – Senior Girls*

This non-coed course provides an opportunity for students to experience a variety of ways to improve their aerobic fitness. Activities include Low/High Impact Floor Aerobics, Step, Taebo/Kickboxing, Pilates, Yoga, Abs Blast, Aerobic Dance, Ballroom, Running/Walking, Jump Roping, Weight Training, and Self-Defense.

FRESHMEN ROTATION

PHYS ED 9

- *.5 credit -- required*

The physical education program will focus on various aspects of physical fitness and team/individual sports. Activities include but are not limited to volleyball, soccer, football, basketball, hockey, lacrosse, and racquet sports. Each student will be evaluated on participation, fitness tests, and/or written tests

HEALTHY LIVING 9

- *.5 credit -- required*

This non-coed course is required of all freshmen. Students will have the opportunity to develop an understanding of how their bodies normally function. Instruction will focus on exploring the body systems, growth/development, nutrition, stress, disease, drugs, alcohol, tobacco, mental health, environmental health and exercise/fitness.

SOPHOMORE ROTATION

RESEARCH 10

- *.33 credit -- required*

This course for sophomores serves as an introduction to the research paper. Students will learn correct formatting of a research paper, including in-text citations, bibliographies, margins, text placement and arrangement. Emphasis is also given to writing thesis statements, summarizing, paraphrasing and quoting sources in the paper. Each student will complete a research paper to be used in combination with the sophomore English class.

DRIVER ED

- *.34 credit -- required*

This required course for sophomores covers both car and classroom instruction. Classroom instruction covers rules, regulations and general knowledge of the highway transportation system.

PHYS ED 10

- *.33 credit -- required*

The physical education program will focus on various aspects of physical fitness. Activities include but are not limited to volleyball, soccer, football, basketball, hockey, lacrosse, and racquet sports.

JUNIOR ROTATION

SAT Verbal Prep

- *.25 credit -- required*

This quarter-long course is designed to help juniors prepare to achieve success on the verbal portion of the SAT. For all juniors, it will provide a helpful review of basic concepts in English, and, for college bound juniors, it will provide tips for the test itself. Evaluation will be based on completion of assignments and simulated SAT tests.

SAT Math Prep

- *.25 credit -- required*

This quarter-long course is designed to help juniors prepare to achieve success on the mathematics portion of the SAT. For all juniors, it will provide a helpful review of basic math concepts, and, for college bound juniors, it will provide tips for the test itself. Evaluation will be based on completion of assignments and simulated SAT tests.

PREPARING FOR COLLEGE/CAREERS

- *.25 credit -- required*

This quarter-long course is designed to help juniors and their parents navigate the sometimes tricky waters of researching, choosing, paying for, and ultimately succeeding in college, vocational training, and future careers. Students who take this course seriously will find a wealth of information, both in general and applied to them personally, that will help them achieve success long after they graduate from DACS. Evaluation will be based on completion of assignments, participation, and/or writing assignments/class projects.

PHYSICAL EDUCATION 11

- *.25 credit -- required*

This quarter-long course will focus on various aspects of physical fitness and team/individual sports. Activities include, but are not limited to, volleyball, football, soccer, basketball, hockey, lacrosse, and racquet sports. Each student will be evaluated based on participation, fitness tests, and/or written tests.

SENIOR ROTATION

SOCIETAL ISSUES

- *.25 credit -- required*

The social issues component will center on a study of the major trends in American life from 1950 to the present, including integration, immigration, medical advances, poverty and homelessness, among others.

SOCIAL JUSTICE

- *.25 credit – required*

The theology quarter will involve a discussion of the Catholic Church’s teachings on the same issues, require students to clarify their views on pressing social matters, and determine what social justice demands of the Catholic.

CONTEMPORARY ISSUES IN HUMANITIES

- *.25 credit – required*

Through a series of speakers, research, interviews, and on-site visits to social service agencies, students will learn about the human needs in their parishes, community, nation or world.

LIFE SKILLS

- *.25 Credit – required*

Life Skills is a nine-week course designed to teach seniors the basics of survival in the “real world.” Such everyday tasks as ironing, cooking, sewing, hemming, washing, using proper etiquette and other important aspects of adult life will be stressed.



PROGRAM OF STUDIES

| <i>Subject</i> | Credit |
|---------------------------------|-----------------|
| English | 4 |
| Math | 4 |
| Science | 4 |
| Social Studies | 4 |
| Theology | 4 |
| Foreign Language | 2 |
| Fine Arts | 1 |
| “Rotations”* | 4 |
| <u>General Electives</u> | <u>3</u> |
| Total Credits** | 30 |

***Rotations** include: Computer/Technology, Phys Ed, Health, Driver Ed, Research, SAT Prep and Senior Inter-disciplinary Studies.

Additional details on the Program of Studies are found in the Student Handbook.

| |
|--------------------------|
| TABLE OF CONTENTS |
|--------------------------|

| | |
|----------------------------------|-----------|
| Business & Technology | 21 |
| English | 3 |
| Fine Arts | 19 |
| Foreign Language | 17 |
| Mathematics | 9 |
| Physical Education | 25 |
| Program of Studies | 30 |
| “Rotations” | 26 |
| Science | 13 |
| Social Studies | 6 |
| Theology | 1 |

High School Course of Study



DUBOIS CENTRAL
CATHOLIC

2018-2019

DUBOIS CENTRAL CATHOLIC SCHOOL

MISSION STATEMENT

The DuBois Central Catholic School is an educational complex for students pre-K through grade twelve.

As a school of the Diocese of Erie, we exist to fulfill the mission of the Catholic Church to teach as Jesus did.

We strive to accomplish this mission by evangelizing, educating and socializing our students, while worshipping God as a community of believers.

We are dedicated to the growth of the whole person, and we help students recognize and develop individual talents so that they can know God and serve Him in building a just society.

We Believe . . .

... every person is made in the image of God. Celebrating the Eucharist, prayer and all forms of expression of our Catholic faith constitute the core of who we are.

... the Catholic faith is the tradition of DuBois Area Catholic School, and will offer opportunities for students to be formed in Gospel values and Christian attitudes, taking these values and principles to the community.

... in academic excellence and life-long learning and are dedicated to the growth of the whole person emphasizing self-development, critical thinking, reason, imagination, creativity, adaptability, and the ability to communicate.

... in a faith-centered community, cultivating a family spirit that promotes respect of self and others, teamwork, service to others, cooperation and communication.

... in stewardship, fostering the responsible use of human, material, and financial resources which create a balanced environment.

... in developing the integrity of an individual who is open to personal and intellectual growth, and is loving, religious and committed to justice.



DUBOIS CENTRAL
CATHOLIC



The Central Difference:

Learn Well . . .

Live Well . . .

Serve Well

