

LOURDES CENTRAL CATHOLIC HIGH SCHOOL



2016-2017

Curriculum Guide

LOURDES CENTRAL CATHOLIC HIGH SCHOOL

www.lourdescentralcatholic.org

FACTS SHEET 2016-2017

ACCREDITED BY STATE OF NEBRASKA

CONFERENCE – Pioneer Conference (CLASS C2/D1)

SCHOOL COLORS – Royal Blue and White SCHOOL MASCOT – Knights

PATRON SAINT – Our Lady of Lourdes

GRADUATION REQUIREMENTS

TOTAL CREDITS	285 Credit Hours
English	40 Credit Hours
Social Studies	40 Credit Hours
Math	40 Credit Hours
Science	30 Credit Hours
Fine Arts	10 Credit Hours
Personal Finance	5 Credit Hours
Computer Technology	5 Credit Hours
Speech	5 Credit Hours
Theology	40 Credit Hours
Electives	70 Credit Hours
PLUS:	90 Clock Hours of Community Service (broke down per class year)

CLUBS AND ORGANIZATIONS

Student Council	Spanish Club
National Honor Society (NHS)	Art/Photography Club
Campus Ministry (T 4:12)	
Chess Club	

INTERSCHOLASTIC ACTIVITIES

SPORTS

Football (B)
Volleyball (G)
Basketball (B&G)
Track (B&G)
Cheerleading
COOP Sports

NON-ATHLETIC

One Act Plays	Yearbook
Academic Decathlon	Speech Team
Art	Musical
Instrumental Music	Science Fair
Vocal Music	

LANGUAGE ARTS

Course Title: English 1

Duration: Year

Grade: 9

Credits: 5 per semester

The focus of this class is creative writing which includes poetry, short story, and journal writing. The creative writing culminates in a project that has each student write a 3-act play complete with dialogue, set design, and costumes. The freshmen English students will also read the works of various American authors including four Nebraskan writers: Mari Sandoz, John Neihardt, Bess Streeter Aldrich, and Willa Cather.

Course Title: English 2

Duration: Year

Grade: 10

Credits: 5 per semester

The sophomore English students are given a thorough overview of American literature including the study of well-known American authors Edgar Allan Poe, Nathaniel Hawthorne, Harper Lee, and John Knowles. Sophomore writing projects include the review of the five-paragraph essay and term paper, combined with a comprehensive punctuation and grammar review.

Course Title: English 3

Duration: Year

Grade: 11

Credits: 5 per semester

English 3 is a survey of American Literature, giving students examples of the unique and varied culture that is America. The selections are presented chronologically to trace the changes in attitudes, ideas, and styles that have occurred in our culture over the past several centuries. Grammar is reviewed with an emphasis on problems that are presented in student writing. Students get practice with paragraph structure and expository writing. A fifteen unit study of vocabulary is also incorporated. The students will learn to prepare formal, scholarly papers according to MLA guidelines, and will practice writing a term paper. Students can earn 3 college credit for this course.

Course Title: English 4

Duration: Year

Grade: 12

Credits: 5 per semester

The senior English as well as review the basic tenets of good writing. Creative writing, essays, a short term paper, business writing, and letters comprise the writing unit. This course will provide the students a comprehensive overview of English literary time periods. Students will study the works of English authors Chaucer, Shakespeare, Milton, Austen and others, as well as the opportunity to explore various kinds of writing: personal, creative, persuasive, and academic. The students will learn to prepare formal, scholarly papers according to MLA guidelines, and will practice examining literature through the writing of literary analyses. Students can earn 3 college credit for this course.

Course Title: Speech**Duration: Semester**

Grade: 9

Credits: 5 per semester

In this class the student will be taught the art of public speaking. Students will be required to perform several different types of speeches during the course including informative, demonstration, using audio/visual aids, and possibly debate. The course requires the student to take competent notes and use them as a tool or aid during the testing. Students will also have a brief overview of the requirements for competitive speaking or speech team.

WORLD LANGUAGE

Course Title: Spanish 1**Duration: Year**

Grade: 9

Credits: 5 per semester

Designed for students who would be interested in learning the language and the culture of Hispanic countries. Topics taught: vocabulary, sentence construction and verb tenses. Oral and written skills will be stressed.

Course Title: Spanish 2**Duration: Year**

Grade: 10

Credits: 5 per semester

Prerequisite: Successful completion of Spanish 1. This class must be taken consecutively with Spanish 1.

This class will be a continuation of Spanish 1 with more advanced study of the language.

Course Title: Spanish 3**Duration: Year**

Grade: 11-12

Credits: 5 per semester

Prerequisite: Successful completion of Spanish 2 and a “C” average or permission of instructor. A student can receive college credit for this course. This class must be taken consecutively with Spanish 2. Third year students will be introduced to more advanced grammatical concepts. Oral and written skills will be stressed.

A student can earn 5 college credits for this course.

Course Title: Spanish 4**Duration: Year**

Grade: 12

Credits: 5 per semester

Prerequisite: Successful completion of Spanish 3 and a “C” average or permission of instructor. A student can receive college credit for this course.

Fourth year Spanish students will have a continuation of previous classes. We will take a deeper look into Hispanic cultures and read authentic literature and other selections.

A student can earn 5 college credits for this course.

MATH

Course Title: Algebra 1**Duration: Year**

Grade: 8 or 9

Credits: 5 per semester

The content in Algebra I will deal with the fundamentals of algebra. We will be able to solve simple equations that have one answer, and work up to equations involving more than one variable, with more than one possible answer. We will do a lot of work with functions and polynomials and work with graphing functions. After taking Algebra I a student will have a good background to help him/her succeed in their math career at Lourdes Central Catholic Schools.

Course Title: Geometry**Duration: Year**

Grade: 9 or 11

Credits: 5 per semester

We cover points, lines and planes and the many properties of these. We also cover writing proofs, equality and congruence of segments, angles, triangles, and polygons. We take a look at perpendiculars, parallel lines, perimeter, tessellation's, similarity, right triangles and their many properties, circles and spheres, area and volume, coordinate planes, loci, and constructions. Geometry is a different area of math, not as many variables to solve for. It's a lot more spatial and less concrete.

Course Title: Algebra 2**Duration: Year**

Grade: 10

Credits: 5 per semester

We analyze equations and inequalities. We graph linear relations and functions. We solve systems of equations and inequalities. We learn to add, subtract, multiply, and find inverses of matrices. We look at polynomials, radicals, and rational expressions. We explore quadratic functions and inequalities. We analyze conic sections and explore exponential and logarithmic functions. We investigate sequences and series, and if time allows, we will be introduced to new areas of probability and a little trigonometry.

Course Title: Trig**Duration: Year**

Grade: 11

Credits: 5 per semester

The content in Trigonometry is designed for the math student that is not, at this time, exploring a field in mathematics but does want to be prepared for what lies ahead in college or life. After completing the course a student should have a sufficient background in mathematics that will enable him or her to succeed in college level courses, or succeed in life from a mathematical standpoint. This will be a great review of each concept learned in Algebra II. We will try to find different approaches to learning problems and look for more ways to implement what they have learned in solving problems. We will do a large unit on trigonometric and logarithmic equations, as well as basic units on probabilities and statistics. We will also talk about budgeting and look at different types of insurance and investments. In this course students will also be asked to present a lesson on some area of mathematics that is new to the group.

Course Title: Pre Calc**Duration: Year**

Grade: 11

Credits: 5 per semester

The content in Pre-Calculus is designed for the math student that wants a little more than the usual math student. They are generally more driven to some field in mathematics or have an aptitude for the subject. After completing the course a student should have a sufficient background in mathematics that will enable him or her to succeed in college level courses, or succeed in life from a mathematical standpoint. We will take each concept learned in Algebra II or Trigonometry, and expand on it. We will try to find different approaches to learning problems and look for more ways to implement what they have learned in solving problems. We will do a large unit on trigonometric and logarithmic equations, as well as units on vectors and matrices. We will also talk about budgeting and look at different types of insurance and investments. In this course students will also be asked to present a lesson on some area of mathematics that is new to the group.

Course Title: Advance Math/Senior Math**Duration: Year**

Grade: 12

Credits: 5 per semester

The content in Senior Math is designed for the math student that is not, at this time, exploring a field in mathematics but does want to be prepared for what lies ahead in college or life. After completing the course a student should have a sufficient background in mathematics that will enable him or her to succeed in college level courses, or succeed in life from a mathematical standpoint. This will be a great review of each concept learned in Algebra II. In addition, we will study arithmetic and geometric sequences and series. We will study fractals and binomial expansion. We will spend time studying permutations, combinations, and probabilities. We will also work with logarithmic and exponential equations.

Course Title: Calc**Duration: Year**

Grade: 12

Credits: 5 per semester

The content in Calculus is designed to cover two main topics, the derivative and the integral. The derivative studies the rate of change and the integral is the study of the overall picture given the rate of change. We will try to give the students more of a chance to use mathematics in real life situations. I will make the Advanced Placement exam available for students this year. There is a cost and I need to know well in advance if students want to take the test. There is a cost and they can receive college credit for taking the test if they pass. More information will be relayed as the year progresses.

SCIENCE

Course Title: Physical Science**Duration: Year**

Grade: 9

Credits: 5 per semester

Physical Science is a course that covers basic topics in chemistry and physics. Students will be introduced to scientific thought in these areas and perform labs to enrich their learning. Physics topics will include motion, force, energy, waves, and electricity. Topics covered in Chemistry are classification of matter, atomic structure, periodic table, and chemical reactions. There is a science fair project requirement.

Course Title: Biology**Duration: Year**

Grade: 10

Credits: 5 per semester

Biology is the study of life. This course includes the study of both animal and plant kingdoms as well as smaller forms of life including one-celled organisms. Within the course, microscope activities are included in the one-celled organism studies. In the animal kingdom studies a progression of organisms is studied, from the simplest to the most advanced, including the human-being and the many systems that are necessary for life in all organisms. The animal studies includes a term paper, various dissections, and collections. In the plant kingdom studies, the entire physiological make up of plants from the simplest to the complex flowering plants is included. A plant collection is part of the plant kingdom studies. The study of cells, tissues, heredity, and classification are included in this class. There is a science fair project requirement.

Course Title: Biology II**Duration: Year**

Grade: 10

Credits: 5 per semester

Course Title: Chemistry**Duration: Year**

Grade: 11

Credits: 5 per semester

Chemistry teaches scientific skills such as measurement, data collection, and data analysis which is stressed throughout the course. At the beginning of the year the theory of chemistry is covered, including such topics as the different types of matter, chemical and physical properties and changes, how the electrons are arranged around the atom, the periodic table, and bonding. After the theory is completed, more problem-type material is covered. Topics include balancing equations, writing correct formulas of compounds, mass-mass problems using balanced equations (stoichiometry), gas laws, acids, bases, salts, oxidation-reduction, and organic chemistry. There is a science fair requirement.

Course Title: Anatomy and Physiology**Duration: Year**

Grade: 11 or 12

Credits: 5 per semester

This course is directed solely to the study of the human body as to its make-up and functions of its parts. Anatomy and Physiology is a course that has two types of objectives. The first objective is to furnish the student with a set of principals which will make them more knowledgeable about human anatomy and physiology. This will aid students in their daily life and make them more efficient and responsible as individuals. A second objective of the course is to provide a solid back ground in human body study for those students who wish to pursue professional training in public health, nutrition, or other biological sciences. This course includes a thorough study of the skeletal, muscular, nervous, circulatory, reproductive, endocrine and digestive systems. This will include the study of cells, tissues, and organs of all these systems.

Course Title: Physics**Duration: Year**

Grade: 11 or 12

Credits: 5 per semester

Physics is a strong college preparatory class which develops critical thinking skills and problem solving techniques. Students use laboratory equipment to explore the way the physical world works. Students will perform numerous lab activities, collect scientific data, write formal lab reports that interpret the data and generate equations that summarize the data represented. Traditional concepts of motion, forces, energy, heat, sound, light, electricity, magnetism, and nuclear physics are emphasized.

SOCIAL SCIENCE

Course Title: Geography**Duration: Year**

Grade: 9

Credits: 5 per semester

The main focus in this class is World Geography. By the end of the year students will have had the opportunity to be a part of an in-depth study of the physical and cultural geography of the 190+ nations of the world. This study incorporates the five themes of geography: 1) Place, 2) Location, 3) Movement, 4) Regions and 5) Human-Environment Interaction. The ultimate goal for each student is to recognize the responsibility of people to cooperate and use the earth's resources for the most benefit of all mankind.

Course Title: World History**Duration: Year**

Grade: 10

Credits: 5 per semester

By the end of the year students will have had the opportunity to be exposed to the "great puzzle". When assembled, these pieces will create the world we live in. Each piece of the puzzle provides an understanding of why the world exists as it does today. Study includes from pre-historic ages to the present times and touches all continents and peoples.

Course Title: American History**Duration: Year**

Grade: 11

Credits: 5 per semester

By the end of the year, students will have had the opportunity to trace the "great experiment" of democracy through its 200+ years of development in our country. For some students, this is the last opportunity to study the history of our nation. An attempt will be made to foster an appreciation for the great people, their accomplishments and the events that have made the United States one of the most powerful countries in the world.

Course Title: American Government**Duration: Year**

Grade: 12

Credits: 5 per semester

By the end of the year, students will have had the opportunity to study the fundamental issues of democracy and discover their personal role in "government by the people." The goal of this course is to equip students with the skills needed to make informed decisions on issues that will affect their lives for years to come.

FINE ARTS

Course Title: Mixed Chorus**Duration: Year**

Grade: 9 - 12

Credits: 5 per semester

In this class the student will be taught correct vocal production and technique, harmony, sight reading vocal scores, and some ear training skills. They will be introduced to varied styles of vocal music and music reading skills. Students will be required to perform in fall, Christmas and spring concerts.

Course Title: Band**Duration: Year**

Grade: 9 - 12

Credits: 5 per semester

In this class the student will be taught correct instrument use, marching band skills, appreciation of instrumental music and some history on instrumental music. Emphasis is placed on music reading, sight-reading, knowledge of key signatures, scale work, and technical drills. Students will be required to perform in fall concerts, the Applejack Parade, Christmas concerts, spring concerts, conference clinics, district music contest and any extra performances scheduled by the music teacher. Auditions by students for honor bands and select ensembles are encouraged but not required.

Course Title: Art I-IV**Duration: Year**

Grade: 9 - 12

Credits: 5 per semester

High School Art satisfies the fine arts requirement for graduation. This course is designed to accommodate all levels of interest. A wide variety of media is employed and experimentation is encouraged. Students will begin to be challenged to create on a more abstract level. Senior high art students also have the ability to participate in school beautification projects and projects for the greater community as well.

Course Title: Graphic Design/ Desk Top Publisher**Duration: Semester**

Grade: 9 - 12

Credits: 5 per semester

Computer based publishing is the future. We work with vector and bitmapped graphic programs separately, and learn to integrate them as well. We explore photo imaging and editing in-depth. We will learn to create new images, manipulate existing images, and then combine. We will combine these images with text in a publishing program to create final products. We will also explore web design. Each year we receive numerous requests for work from within the school and from outside sources as well. This gives the students experience in real world situations and presents an opportunity to receive positive feedback and satisfaction for a job well done.

PHYSICAL EDUCATION

Course Title: Physical Education**Duration: Year**

Grade: 9 - 12

Credits: 5 per semester

This course is designed to give the high school students the background needed to know all about physical education. You will experience many different games played by many athletes today, as well as get a good strong background about lifting weights. In this course you can expect to lift about 3 days a week and experience different games the other 2 days.

Course Title: Weight Training**Duration: Year**

Grade: 10 - 12

Credits: 5 per semester

This course will give the students/athletes an opportunity to make themselves better in all aspects of athletics and conditioning. The weight program that will be followed will be the bigger -faster –stronger program used by the Nebraska Cornhuskers, as well as experiencing conditioning and plyometrics to get the total package on getting in shape and making them feel better about themselves.

RELIGION

Course Title: Religion 1**Duration: Year**

Grade: 9

Credits: 5 per semester

This course is the first of two parts that expands the full school year. In the first semester we will be studying the Old Testament from Genesis to the Prophets. A major focus in this semester will be on the time of the Kingdom of Israel and the prophets. In the second semester we will be studying the New Testament focusing on the four Gospels and how they parallel each other. The letters of St. Paul will be another major focus as they make up a majority of the New Testament. An understanding of the symbolism contained in the Book of Revelation will be towards the end of the semester.

Course Title: Religion 2**Duration: Year**

Grade: 10

Credits: 5 per semester

First semester the students will trace the history of the Church from its foundation by Jesus Christ to the present. They will have a clear understanding of the mandate and the mission of the Church; how far the field of her action has expanded, and under what circumstances and under whose influence she has been hindered or helped. In addition to this, the students will learn the history of the Church in the United States. Throughout the course, the students will be made aware that Christ is the Lord of history, and He has promised that nothing including the gates of hell will prevail against the Church.

Second semester this course is made up of three segments: prayer, Mass and the sacraments. The over-all aim of the course is to assist the students in answering God's call to holiness. They will be taught that their relationship to God is expressed and sustained through personal and liturgical prayer. Through an in-depth study of its parts, the students will come to understand Christ's action and their response in the Mass. In their study of the sacraments, they will study the institution, matter and form of each sacrament, the graces received through the sacrament, and the characteristics unique to each sacrament. They will be taught that each sacrament is an encounter with Christ, and therefore a means to holiness.

Course Title: Religion 3**Duration: Year**

Grade: 11

Credits: 5 per semester

In the fall this class studies Catholic morality. This course looks at the deeper, underlying philosophical errors of secular thought in making moral decisions and compares such errors to the truth, depth, and beauty of a Catholic way of life. Ultimately, this section of the course is designed to prepare students to be more assured and knowledgeable of the Catholic morality as they prepare to leave Catholic school and enter the secular world. In the spring this class studies faith. This course begins by examining the proofs of God's existence, His attributes and His divine plan for humanity, and culminates in two months of Christology. In a day and age when God's very existence is often questioned and challenged, this section of the course is designed to provide deep, logical explanations of God's plan and ability to provide salvation, and includes many comparisons to other religious beliefs.

Course Title: Religion 4**Duration: Year**

Grade: 12

Credits: 5 per semester

This course will cover two areas one being social justice and the other is a look at vocations. In social justice the students study the Word of God in relation to justice. It helps the students see how scripture has influence the Church's standings and how she has tried to live and promote social justice. Students will learn how to witness their faith among their families, in the school, civic community, the Church, and in the world. Special emphasis is given to the meaning and performance of the spiritual and corporal works of mercy.

The second half of the course looks at the vocations opened to the student as she or he matures into adulthood. This helps the student to become more aware of which role God is calling him or her to, whether it is single life, married life, religious life, or the priesthood. The goal is for the student to build a firm foundation for listening to God and choosing the path he has picked for him or her.

ELECTIVES

Course Title: Leadership**Duration: Semester**

Grade: 9

Credits: 5 per semester

This class fulfills the Ag classroom requirement. In this class we look at the skills needed to become an effective leader in and out of school. This class is based off of the "Seven Habits of Highly Effective Teens" by Sean Covey. Areas explored but are not limited to personal strengths and weaknesses, effective communication, goal setting, values clarification and so forth.

Course Title: Information Technology**Duration: Semester**

Grade: 12

Credits: 5 per semester

Students will be reacquainted with the software programs that are used to create various documents and communication tools. The class will proceed to more advanced topics, such as creating databases, power point presentations, etc. This class will also learn basic trouble shooting skills.

Course Title: Academic Decathlon**Duration: Semester**

Grade: 10 - 12

Credits: 5 per semester

Academic Decathlon is considered to be the most prestigious academic competition for high schools across the nation. Teams are comprised of three “A” students, three “B” students, and three “C” students, along with one alternate at each level, all of whom compete against students from other schools at their own academic level. Thus, the competition is not just for the “smart” students, but rather encourages students from all ability levels to strive for academic excellence. The materials that are studied each year change, but they always come from the same ten academic areas: literature, math, art, music, economics, social science, science, essay, speech, and interviews. Benefits of the experience: 1) You are exposed to a wide variety of materials that you would never have the opportunity to study otherwise, especially in a small school. 2) The competitive aspect fosters a life-long love and appreciation for learning. 3) It looks great on your resume. Everyone in the academic community knows what Academic Decathlon is all about—colleges will want you on their campus! 4) You earn scholarship money! 5) You will stretch yourself like never before and come away with a tremendous feeling of accomplishment.

Course Title: CAD**Duration: Semester**

Grade: 11 - 12

Credits: 5 per semester

Course Title: Journalism**Duration: Year**

Grade: 11-12

Credits: 5 per semester

This class is responsible for producing the monthly newsletter and the yearbook. Although the class is open to all levels, (each year I have some freshmen, sophomores and juniors) I generally recommend this class for seniors, because it is their final yearbook. I allow the seniors to determine the direction of the yearbook, the theme, layout, etc. Journalism/Yearbook is all about writing. Strong writing skills are needed to participate in this class. The yearbook is produced digitally, so each student will leave the class solidly grounded in desktop publishing.

BUSINESS

Course Title: Personal Finance**Duration: Semester**

Grade: 12

Credits: 5 per semester

Students will be introduced to budgeting, financing, credit, risk management, and other matter relating to their personal finance. Investing for the future through various means, including the stock market will be discussed. Students will learn to analyze their financial decisions on a daily basis so they may become informed consumers in regards to their personal fortune.

Course Title: Accounting 1**Duration: Year**

Grade: 10 - 12

Credits: 5 per semester

Students will be introduced to the accounting equation and basic accounting concepts and procedures. Students will be guided through an accounting cycle from journalizing transactions, posting to ledgers, creating statements, closing out accounts, to preparing for the next accounting cycle. Students will follow a particular business from the start of the accounting cycle to the conclusion.

Course Title: Accounting 2

Duration: Year

Grade: 11 - 12

Credits: 5 per semester

Prerequisite: Students must have successfully completed Accounting 1.

Course Title: Introduction to Business

Duration: Semester

Grade: 10 - 12

Credits: 5 per semester

This course is an introduction to the many facets of the private enterprise system and of the businesses that operate within its framework. Your experience in this course will enable you to gain a better understanding of what business arena is all about, how a business operates and which business functions are needed in any business enterprise.

Course Title: Marketing

Duration: Semester

Grade: 10 - 12

Credits: 5 per semester

REQUIREMENTS FOR 4 YEAR COLLEGES AND UNIVERSITIES

- 4 YEARS OF ENGLISH
- 4 YEARS OF MATH (ALG 1 in 8th Grade counts)
- 2 YEARS OF ONE FOREIGN LANGUAGE (Some require 4 years others don't require any)
- 3 YEARS OF SCIENCE
- 3.5 YEARS OF SOCIAL SCIENCE

SOME SCHOOLS ALSO REQUIRE:

- FINE ARTS
- COMPUTER CLASSES

College Credit Options

PSC Dual Credit Program

These college credit courses will be taken either in the classroom or on-line. A student must be a junior or senior, carry a "B" average, and have the ability to work independently. The cost of this program is \$50 per credit hour for dual credit. Tuition increase could occur.

CLASSROOM INSTRUCTION

English Literature	3 cr. (Junior Year)
English Composition	3 cr. (Senior Year)
Spanish 101	5 cr. (Junior Year)
Spanish 102	5 cr. (Senior Year)

PSC ON-LINE CLASSES – PSC offers many other general education courses. See Guidance Department for class options – Students may only take one class per semester.

UNL Advance Honors Program

These college credit courses are offered on-line. Qualified students must complete pre-requisite high school course work with a "B" average, be in senior standing, hold an overall "B+" GPA, the ability to work independently, and earned an ACT composite score of 22 or higher. Some juniors may qualify if they have an "A" average. Students who are interested must apply at UNL and pay a \$45 application fee. The cost is \$100 per credit hour. **See Guidance Department for class options – Students may only take one class per semester.**

GRADING

Percentage	Letter Grades	Grade Points
100-99	A+	4.0
98-95	A	4.0
94-93	A-	4.0
92-91	B+	3.5
90-87	B	3.0
86-85	B-	3.0
84-83	C+	2.5
82-79	C	2.0
78-77	C-	2.0
76-75	D+	1.5
74-72	D	1.0
71-70	D-	1.0
Below 70	F	0.0

Mission Statement

The mission of Lourdes Central Catholic School is to assist parents in the development of their children by providing a Christ centered environment which promotes spiritual, academic and social growth in order to prepare students for active participation in the Church, in their families and in society.