

# **Scotus Central Catholic High School**



## **2024-2025 Course Descriptions**

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*Please contact Ms. Brichacek for any questions regarding course descriptions.*

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## **CURRICULUM HANDBOOK**

### **SCOTUS CENTRAL CATHOLIC HIGH SCHOOL COLUMBUS, NEBRASKA**

This booklet is presented by the entire staff of Scotus High School as a source of information regarding the courses of study and enrollment procedure of the school.

#### **ACADEMIC STANDING**

Scotus Central Catholic High School is fully accredited by the North Central Association of Colleges and Secondary Schools since 1941. Scotus Central Catholic is also accredited by the State of Nebraska Department of Education and is on the list of Class A accredited schools as established by the members in good standing of the Secondary School Department of the National Catholic Education Association.

The courses listed in the booklet are tentative offerings for the school year. These courses will be offered ONLY if enough students enroll to merit the class!

The student is urged to read the course descriptions, graduation requirements, and the grade level offered, and then with the help of parents select a schedule.

The teachers, counselor, and administrative staff of Scotus are ready to assist all students in selecting a schedule. If there are questions, please begin with the teachers or school counselor. Students are advised to use the recommendations and experience of the school staff when enrolling into classes. Final say on enrollment rests with the administration.

#### **GENERAL INFORMATION**

Credit hours are the value placed on various courses. A subject, which meets five times a week, yields five credit hours per semester. The credit hours for each class are indicated for each class. Each student must register for classes required at their specific grade level and enough electives to have a minimum of eight solids and a total of 40 credit hours per semester unless administrative permission is given.

Registration for the next school year will be conducted during the second semester of the previous school year. It is conducted at this time so the school can efficiently plan for the next school year. There will be a designated drop and add period prior to the beginning of each semester. Once a semester has started, student or parent initiated dropping and adding of classes will not be permitted. Only a teacher or administrator may initiate drop/add throughout the entire semester.

#### **REGISTRATION PROCEDURES**

Scotus Central Catholic students are encouraged to be involved in their graduation progress plan. During registration, students are expected to communicate with the school counselor regarding their schedule needs.

A designated registration period will always be clearly communicated to all students and parents.

The School Board set the following requirements for graduation from Scotus Central Catholic:

**REQUIREMENTS FOR HIGH SCHOOL GRADUATION**

In granting credits, Scotus follows a semester credit system. According to this plan, one semester-hour of credit means the value assigned for one period of instruction per week for an entire semester.

To complete the requirement for graduation, a student must have successfully passed a minimum of 240 credit hours including: 205 required credits, 35 elective credits.

RELIGION	40 Credits
ENGLISH	40 Credits
MATH	30 Credits
SOCIAL STUDIES	30 Credits
SCIENCE	3 Units*
BMIT	10 Credits
PHYSICAL EDUCATION	15 Credits
SPEECH COMMUNICATION	5 Credits
VISUAL & PERFORMING ARTS (Music and Art)	5 Credits

Required classes for graduation are listed below. Students are required to enroll and receive credit in the listed classes. The remaining credits can be selected from elective courses offered at the respective grade levels. No academic credit will be given for participation in sports or activity events not directly related to the approved curriculum. High School students are allowed up to 1 study hall per semester, unless given administrative permission for additional study hall time.

\*1 Unit= 1 full year course

**GRADUATION REQUIREMENTS FOR 7<sup>TH</sup> & 8<sup>TH</sup> GRADE**

**7<sup>TH</sup> GRADE**

**Daily Full Year**

English 7  
Math 7  
Social Studies 7  
Literature 7  
Science 7

**Even/Odd Semester**

Health 7  
Computer Applications I  
Art 7  
Vocal Music 7

**Even/Odd Yearlong**

Religion 7  
P.E. 7  
Band 7

**Elective**

Band 7

**8<sup>TH</sup> GRADE**

**Daily Full Year**

American History 8  
English 8  
Math 8 or Algebra I 8  
Science 8

**Even/Odd Semester**

Vocal Music 8  
Art 8  
Health 8  
Computer Applications II

**Even/Odd Yearlong**

Religion 8  
P.E. 8  
Band 8

**Quarter Classes**

Careers 8  
Literature 8  
Steam 8  
FCS 8

**Elective**

Band

The School Board set the following requirements for graduation from Scotus Central Catholic:

**GRADUATION REQUIREMENTS BY DEPARTMENTS 9<sup>th</sup>-12<sup>th</sup> GRADE**

\* credits received for each course

**RELIGION (40 credits)**

Religion 9	(10)*
Religion 10	(10)
Religion 11	(10)
Religion 12	(10)

**SOCIAL STUDIES (30 credits)**

Modern World History	(10)
American History II	(10)
Modern Government	(10)

**ENGLISH (40 credits)**

English 9	(10)
English 10	(10)
English 11	(10)
English 12	(10)

**BUSINESS MARKETING INFORMATIONAL TECHNOLOGY (BMIT) (10 credits)**

Computer Business Applications	(5)
Personal Finance	(5)

**MATH (30 credits)**

*Any math courses for which the student meets prerequisites for to equal 30 credits.*

Algebra IA	(10)
Algebra IB	(10)
Algebra I	(10)
Geometry Essentials	(10)
Geometry	(10)
Algebra II	(10)
Pre-Calculus with Trig	(10)
Calculus	(10)

**Physical Education (15 credits)**

*P.E. and Health are required by the Physical Education department. Students may choose from the remaining courses to fulfill an additional 5 credits.*

P.E.	(5)
Health	(5)
Strength Training	(5)
Recreational Sports	(5)

**SPEECH COMMUNICATION (5 credits)**

Speech	(5)
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**SCIENCE (3 units\*\*)**

*Biology is required by the Science department. Students may choose from the remaining courses to fulfill an additional 10 units.*

Biology	(10)
Advanced Biology	(10)
Chemistry	(14)
Accelerated Chemistry	(20)
Conceptual Physics	(10)
Earth Science	(10)
Physics	(20)
Anatomy & Physiology	(10)

**VISUAL & PERFORMING ARTS (5 credits)**

*Any fine arts course(s) to equal 5 credits.*

Band	(10)
Shamrock Singers	(10)
Fundamentals of Art	(5)
Drawing & Painting	(5)
Sculpture & Mixed Media	(5)
Advanced Art	(5)

**ELECTIVES (35 credits)**

*An elective is any course that does not fulfill a department requirement, and the student meets prerequisites for.*

**TOTAL CREDIT REQUIREMENTS= 240 credits**

**\*\*1 unit= 1 full year course**

## **COURSES OFFERED TO SCOTUS STUDENTS**

Please read the course descriptions regarding specific information on each course.  
All electives are offered based on the number of course request during registration.

### **RELIGION**

Religion 7  
Religion 8  
Religion 9  
Religion 10  
Religion 11  
Religion 12

### **BUSINESS MARKETING INFORMATIONAL TECHNOLOGY**

Accounting I  
Accounting II  
Careers 8  
Computer Applications I  
Computer Applications II  
Entrepreneurship  
Graphic Design  
Introduction to Business  
Marketing  
Newspaper  
Video Production

### **ENGLISH**

English 7  
Literature 7  
Literature 8  
English 8  
English 9  
English 10  
English 11  
English 12  
Accelerated English 12  
Journalism  
Speech  
Advanced Speech  
Yearbook

### **FAMILY & CONSUMER SCIENCE**

Child Development  
Culinary Arts  
FCS 8  
Housing  
Nutrition and Foods  
Parenting  
Skills for Life I  
Skills for Life II  
Textiles & Clothing I  
Textiles & Clothing II

### **MATHEMATICS**

Math 7  
Math 8  
Algebra I-8  
Algebra IA  
Algebra IB  
Algebra I  
Geometry Essentials  
Geometry  
Algebra II  
Advanced Mathematics  
Pre-Calculus with Trigonometry  
Calculus

### **PHYSICAL EDUCATION**

P.E. 7 Boys  
P.E. 7 Girls  
P.E. 8 Boys  
P.E. 8 Girls  
P.E. 9  
Strength Training  
Recreational Sports  
Health 7  
Health 8  
Health

### **SCIENCE**

Science 7  
Science 8  
Biology  
Earth Science  
Advanced Biology  
Accelerated Chemistry/Lab  
Chemistry/Lab  
Anatomy & Physiology  
Conceptual Physics  
Advanced Physics  
Health Sciences I  
Health Sciences II  
Medical Terminology



**SOCIAL STUDIES**

Social Studies 7  
American History 8  
Modern World History  
American History II  
Modern Government  
Psychology  
Sociology  
Modern Problems  
Street Law

**SPANISH**

Spanish I  
Spanish II  
Spanish III

**STEAM**

Steam 8  
Horticulture & Agriculture  
STEAM I  
Engineering STEAM  
Robotics/Python/Coding  
Electronics & Electricity

**VISUAL & PERFORMING ARTS**

Art 7  
Vocal Music 7  
Art 8  
Vocal Music 8  
Junior High Band  
Fundamentals of Art  
Drawing and Painting  
Sculpture and Mixed Media  
Art Advanced  
Band  
Jazz Band  
Shamrock Singers

# **COURSE DESCRIPTIONS**

## **RELIGION**

(Full Year Meets Even/Odd)

### **RELIGION 7**

Course Credit: 5

Required

**Grade 7**

This course focuses the students' attention on the person of Jesus Christ as the heart of our faith. Students will examine the Gospels in order to explore the significant moments in Jesus' life as well as the response of His disciples. Students will further reflect upon His presence in the Church today and also in the life of the individual baptized Christian, especially in his or her own call to holiness. Students will study Morality: Life in Christ and how to apply principles of Christian morality.

(Full Year Meets Even/Odd)

### **RELIGION 8**

Course Credit: 5 credits

Required

**Grade 8**

This course is designed to help make the student more aware of his or her response to the faith. Particular attention is given to the role of the Holy Spirit, to the life of the Church, and to the individual's own responsibility in living out the faith. Since most students will receive the Sacrament of Confirmation during their eighth grade year, special attention is paid to the significance of this sacrament in the life of the believer.

### **RELIGION 9**

Course Credit: 10

Required

**Grade 9**

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures and the Tradition of the Catholic Church. They will learn about the Bible, authored by God through the inspiration of human authors. Special attention will be given to the Gospels, where students may grow to know and love Jesus Christ more personally. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ, and the Second Person of the Blessed Trinity. In this course, students will understand that Jesus Christ is the ultimate revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

### **RELIGION 10**

Course Credit: 10

Required

**Grade 10**

This course will help students to go deeper in their knowledge of Jesus and His Church. First semester will focus on the Old Testament covenants, Christ's fulfillment of those covenants and His saving work in the Paschal Mystery, and the personal response of each Christian to the love of God. Second semester students will be invited to study both the meaning of the Church and its history in order that they might come to a deeper appreciation of what it means to live as a member of the Body of Christ.

**RELIGION 11****Grade 11**Course Credit: 10  
Required

Morality: Our Moral Life in Christ focuses on the intellectual, moral, and formational development in living a life joined to the mystery of our Lord. This foundation affords the Christian with the only true alternative to a world which often rejects the spiritual and substitutes its own brand of convenience for that which is "right" and "true". The foundation of this course is Christ and His Church. Our moral Life in Christ offers to the student those reasons which direct us to live for good of all brothers and sisters. Grounded in the Ten Commandments, these corner stone's tie our humanity together in actions that call us to understand our human nature. The mystery of Christ illumines those right actions so that we might live fully the life gifted to us.

The Sacraments: Through his life, Passion, Death and Resurrection, Jesus Christ merited the redemption of all people and made possible our reconciliation with God. He founded the Church to continue his salvific ministry until he comes again and entrusted the Church with the Seven Sacraments as a primary means of continuing this ministry throughout the ages. In the sacraments, the faithful receive God's grace and assistance, and are privileged to have a personal encounter with Jesus Christ. This course will examine the seven Sacraments from the perspective of both Sacred Scriptures and Sacred Tradition. The course will cover the growth in understanding, meaning, and significance of the Sacraments in the Catholic Church. Students will be given a deeper understanding of how and why the Sacraments are an essential core of Catholic faith life, how they empower the Christian community and how they apply to Christian discipleship. In the context of living the Sacraments, the course will focus on how the Sacraments will help us better live a moral life in compliance with the Commandments.

**RELIGION 12****Grade 12**Course Credit: 10  
Required

Sacred Scriptures: is knowledge of Christ. The seniors will continue to grow in their relationship with Christ by studying the Sacred Scriptures during their first semester. The Student will learn how the Scriptures were formed, where they came from, how they should be approached, various themes and figures, and most importantly who Jesus is. The majority of the class will follow the arc of Salvation History, beginning with Creation and ending with Christ and the fullness of revelation.

Ecumenism and Interreligious Dialogue: is to increase one's understanding of the Catholic Church and her faith by studying how and why various Christian denominations and other Religions formed. The course will begin with Ecclesiology (the theology of the Church), so that from this foundation the student will be able to recognize the similarities and differences in other Churches, Ecclesial Communities, and Religions. Each change in theme will include the history of the division or the history of the religion, and the basic tenants and differences. We will discuss Orthodox Christianity, Calvinism, Lutheranism, Anglicanism, Judaism and Islam. We will also take a brief look at Eastern Religions, such as Buddhism and Hinduism just to name a few. The hope for this course is an increased awareness of the world the students will be entering and a deeper love for the Catholic Church.

## **BUSINESS MARKETING INFORMATION TECHNOLOGY**

(Semester Meets Even/Odd)

### **COMPUTER APPLICATIONS I**

**Grade 7**

Course Credit: 2.5

Required

This middle-level course is designed to emphasize a positive digital life and explore Information Technology careers. Students will practice correct keyboarding skills and ergonomics; compose, create, edit, and format word processing documents; organize and manipulate data in a spreadsheet; and prepare a digital presentation at an introductory level.

(Semester Meets Even/Odd)

### **COMPUTER APPLICATIONS II**

**Grade 8**

Course Credit: 2.5

Required

This middle-level course is a reinforcement and continuation of the 7th grade course: emphasize a positive digital life and practice correct keyboarding skills and ergonomics. Students will compose, create, edit, and format word processing documents; organize and manipulate data in a spreadsheet; and prepare a digital presentation at an intermediate level.

### **COMPUTER BUSINESS APPLICATIONS**

**Grade 9**

Course Credit: 5

Required

Students will explore technology as it applies to success in high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, intermediate spreadsheet, and database applications used personally and professionally.

### **ACCOUNTING I & II**

**Grades 10-12**

Course Credit: 5

Elective

Prerequisite: Algebra II

Accounting is an essential course for students who plan to major in business after high school. Students will learn how to keep financial records for a business and can apply the knowledge to their own personal records. It will provide them with a better understanding of the financial relationship between a customer (which could be them) and a business (which could be theirs). This is an introductory course to accounting for a service and merchandising business. The accounting cycles for a sole proprietorship, partnership, and corporation are covered. Students will learn to journalize, post, make adjustments, and prepare financial statements. Other topics include careers, taxes (including personal income tax returns), and payroll.

### **ENTREPRENEURSHIP**

**Grades 10-12**

Course Credit: 5

Prerequisite: Introduction to Business or 11<sup>th</sup> grade standing

Elective

In this course, students will interact with problems and scenarios that business professionals face, such as interviewing, hiring, and supervising staff, keeping financial records, evaluating results, and much more. Students will find out how the areas of a company (marketing, finance, management, etc.) work together to create a successful business.

**INTRODUCTION TO BUSINESS****Grades 9-12**

Course Credit: 5  
Elective

This course is an introductory course that develops student understanding and appreciation of the business world. Units of study include economics, management, marketing, accounting, social responsibility, entrepreneurship, and business ethics. Students will learn through various real-world situations and projects to enhance their business knowledge.

**MARKETING****Grades 9-12**

Course Credit: 5  
Prerequisite: Introduction to Business or 11<sup>th</sup> grade standing  
Elective

In this course, students will analyze the business world around them and how they are influenced by marketing tactics. Units of study will include types of marketing, marketing research, product development, pricing, distribution, and promotion.

**PERSONAL FINANCE****Grade 9**

Course Credit: 5  
Required 9<sup>th</sup> grade  
Elective: 12<sup>th</sup> grade

This course will introduce the student to general personal finance knowledge affecting their personal and professional lives. The class utilizes the Dave Ramsey Foundations in Personal Finance. Topics to be covered include saving and budgeting, credit and debt, financial planning and Insurance, and Income, taxes and giving.

**VIDEO PRODUCTION****Grades 11-12**

Course Credit: 5  
Elective

Are you interested in learning about television production, video editing, content creation, storyboarding, and making videos that could be entered in the NSAA state journalism competition? Video Production covers how to shoot, produce, and edit videos. Students get hands-on experience planning, writing, storyboarding, shooting, and editing video, using HD Canon cameras. The editing software we use is Adobe Premiere Pro, which is the industry, professional standard when it comes to video editing and production. Students will also get to experience shooting video at live sporting events, activities, and even just their friends in the hallways, documenting the lives of Scotus students. Students explore career opportunities in this exciting and rapidly expanding industry through visits to the University of Nebraska College of Journalism and Mass Communications and HuskerVision, which is the highest standard of video production in college athletics today. This class prepares students for advanced college courses and/or for work in the industry.

## **ENGLISH**

### **ENGLISH 7 & 8**

**Grades 7-8**

Course Credit: 10  
Required

The junior high school program deals with all aspects of basic grammar, vocabulary, formal writing structure, and creative writing. Seventh grade initiates the elements, which are expanded in the eighth grade. Additionally, eighth grade students will complete reading comprehension activities through the Accelerated Reader program as well as class notes.

### **LITERATURE 7**

**Grade 7**

Course Credit: 10  
Required

The seventh grade reading course is designed to reinforce fundamental reading skills. Reading material will cover both fiction and non-fiction. Focus will be on comprehension, vocabulary development, increased reading rate, as well as listening skills and library skills. Students will utilize the Accelerated Reader program to enhance reading comprehension skills.

### **LITERATURE 8**

**Grade 8**

Course Credit: 10  
Required

In this quarter class, students read, discuss, and analyze a variety of text to enhance critical thinking and inference skills. Students also master the understanding of grade-level vocabulary through gamification, discussion, and test-taking strategies.

### **ENGLISH 9**

**Grade 9**

Course Credit: 10  
Required

This course focuses on writing and reading. Grammar, punctuation, and sentence structure are reviewed in the context of writing. The focus is on the process of writing and writing for different audiences and purposes. The literature studied is a combination of classic and contemporary. Students will also complete many reading comprehension activities.

### **ENGLISH 10**

**Grade 10**

Course Credit: 10  
Required

This course consists of composition and literature. The literature section includes the reading and discussion of various novels such as Night, Animal Farm, Julius Caesar, Fallen Angels, Mythology, and King Arthur Stories. The combination of these areas is designed to provide the student with the appreciation for a wide variety of literature as well as the confidence to write in various genres. The students will also be required to complete two research units: a power point presentation and a research paper. Students will complete reading comprehension activities

**ENGLISH 11****Grade 11**Course Credit: 10  
Required

This course consists of the reading of American authors and the learning of various composition styles such as poetry, short stories, vignettes, dramas, editorials, scripts, etc. The course requires writing a research paper working proficiency of his/her own writing voice and style as well as gain an appreciation of the writing styles of a multitude of classic and modern American authors. Students will complete reading comprehension activities and ACT preparation.

**ENGLISH 12****Grade 12**Course Credit: 10  
Required (or may choose Accelerated English)

This course consists of reading a variety of novels and studying English literature. The students will also work on personal, essay, and research writing. They will be required to identify literary devices, interpret the author's intent, and make personal connections. Students will complete reading comprehension activities. Second semester students will complete a thematic project in place of a semester exam.

*Dual Credit with Central Community College (ENGL 1010)*

**ENGLISH COMPOSITION AND LITERATURE****Grade 12**

Course Credit:10

Required (or may choose English 12)

Prerequisite: Commitment to cover dual credit and book costs, 18+ English & Reading ACT, Grade average in English 10 & 1<sup>st</sup> semester of English 11 will be a factor for eligibility. With enough student interest, a minimum of 86% is required.

Students need to sign up for this class during the spring of their junior year. Because the class is rigorous, students should have very good reading and writing skills. One semester will consist of the students learning writing composition on a M-W-F from a Central Community College professor. Grades for the writing portion of the semester will count as both high school grades and as college grades. The student will receive 3 credits of college credit for writing composition when the class is completed. The students will have a study hall on the alternating days the college professor is not at Scotus. The alternate semester, students will read classic English Literature and complete a senior final project; the Scotus English teacher will teach this.

**SPEECH**

Course Credit:5

**Grade 10-12**

Required

Speech is the study and practice of oral communication. The course covers poise, delivery, body language, voice, research, and outlining of the basic speech types. The basic types covered are: informative, persuasive, demonstration, and interpretive speaking.

**JOURNALISM****Grades 11-12**

Course Credit: 10

Elective

Prerequisite: Minimum of "B" average in English for two prior semesters, limit of 12 students, commitment to completion of academic school year.

This course focuses on the many aspects of journalistic writing including ethics, news reporting, editing, advertising, and publishing. Members of this class, using Adobe InDesign, publish the school newspaper,

the *Rock Bottom*. Students must be willing to devote extra time to meet deadlines and take photos of school events. This course may be taken more than once.

**YEARBOOK**

**Grades 11-12**

Course Credit: 10

Elective

Prerequisite: Minimum of "B" average in English for two prior semesters, limit of 12 students with seniors given preference, commitment to completion of academic school year.

This class focuses on the writing design, layout, and completion of the school yearbook. Students will use online software to publish the 144 page annual. Students must be willing to devote extra time to meet deadlines and to take necessary photos. This course may be taken more than once.



## **FAMILY & CONSUMER SCIENCE**

### **CHILD DEVELOPMENT**

**Grades 9-12**

Course Credit: 5

Elective

This course is designed for those students who plan to become a good parent as well as for potential employment in child development occupations. Students will have the opportunity to study the toddler and preschool stage of development. Self-esteem and its impact of parenting and discipline, health and safety, and problem situations for children will complete the units of study. Special highlights of the semester are toddler and preschool labs.

### **CULINARY ARTS**

**Grades 11-12**

Course Credit: 5

Elective

This course focuses on food service and the artistic presentation of foods. Students will be involved in culinary skills, food safety and sanitation, preparation steps ranging from meal planning to add that last garnishing touch, interpersonal and communication skills, and career exposure related to the food industry.

### **HOUSING**

**Grades 9-12**

Course Credit: 5

This course will emphasize the students' understanding of housing needs and decisions faced when selecting and furnishing a home. The cultural, societal, environmental, economical, and technological influences on housing will be covered. Career opportunities related to housing will be covered. Laboratory sessions will give the student an opportunity to develop practical skills and projects to decorate and manage a home.

### **NUTRITION AND FOODS**

**Grades 11-12**

Course Credit: 5

Elective

With the emphasis on health wellness in today's society, this course will help students make informed choices in their diets and help them develop sound eating habits for life. Laboratory sessions offer students opportunities to learn food preparation and meal planning skills, food dollar management, and human relations skills. Students are taught the need for taking responsibility in food decisions and the implications those decisions have for themselves, their families, and for society. Career opportunities related to Nutrition and Foods will be covered.

### **SKILLS FOR LIFE I**

**Grades 9-12**

Course Credit: 5

Elective

This course is one of two comprehensive Family and Consumer Sciences class for the secondary level. This will help students meet the challenges of their daily lives with confidence. They will learn practical skills for making decisions at home, school and in the workplace. Developing skills in the areas of personal development, responsible relationships, conflict resolution, being a responsible caregiver, nutrition and foods and time management.

**SKILLS FOR LIFE II****Grades 9-12**Course Credit: 5  
Elective

This course is one of two comprehensive Family and Consumer Sciences class for the secondary level, providing a knowledge base and general skills in all aspects of the field. Areas of study will include building family and relationships, caring for clothing and selecting clothes to fulfill personal needs, the impact of technology on the consumer, housing, and exploring careers in all areas.

**TEXTILES & CLOTHING I****Grades 9-12**Course Credit: 5  
Elective

Students will have the opportunity to explore the history of clothing, concern for clothing as it affects appearance, and decisions regarding clothing purchases and clothing care. Laboratory situations will help the student develop construction techniques which allow them an alternative in making decisions about how to repair clothing and to make clothes to emphasize one's individuality. Career opportunities related to clothing will be covered.

**TEXTILES & CLOTHING II****Grades 10-12**Course Credit: 5  
Elective

Prerequisite: Textiles & Clothing I with a 93% average or higher or a senior who has already taken Textiles & Clothing I.

This course will build on skills learned in Textiles & Clothing I. It is designed for those students wanting to develop their construction techniques and knowledge of fabric. Students will be in laboratory situations that will increase their knowledge of construction techniques in order to emphasize on altering, redesigning, and making clothes and projects to emphasize one's individuality and develop some quilting skills. Career opportunities related to clothing will be covered.

**PARENTING****GRADES 10-12**Course Credit: 5  
Elective

This course is designed for those students who plan to become a good parent as well as for potential employment in child development occupations. Students will learn the history of parenting, child growth and development including the prenatal stage, birth, and the baby's first year of life. Special highlights of the semesters are guest speakers, and a hospital tour.

**CHILD DEVELOPMENT****GRADES 9-12**Course Credit: 5  
Elective

This course is designed for those students who plan to become a good parent as well as for potential employment in child development occupations. Students will have the opportunity to study the toddler and preschool stage of development. Self-esteem and its impact of parenting and discipline, health and safety, and problem situations for children will complete the units of study. Special highlights of the semester are toddler and preschool labs.

\*The ability to offer every course annually varies due to registration numbers. If a class is not available, it may be offered the next academic school year.

## **MATHEMATICS**

Scotus Central Catholic High School offers eight courses in mathematics and requires 30 credits for graduation. The sequence of courses depends on the student's ability. Students planning to attend a four-year college are highly encouraged to take four years of mathematics. The courses offered are Algebra 1A & 1B, Algebra I, Algebra II, Geometry Essentials, Geometry, Advanced Math, Pre-Calculus with Trigonometry and Calculus.

Advanced Mathematics is required for admission to the University of Nebraska-Lincoln. Algebra II is required for admission to all other State colleges and universities.

If a student fails the 1<sup>st</sup> semester, he/she will be required to drop the class. If a student fails the 2<sup>nd</sup> semester and plans to retake the course, he/she will be required to audit and receive a passing grade the 1<sup>st</sup> semester of the class prior to repeating the 2<sup>nd</sup> semester.

### **MATH 7**

**Grade 7**

Course Credit: 10  
Required

The seventh-grade mathematics course is designed to maintain and advance each student's ability in mathematical skills. The student's major emphasis will be on performing the skills of addition, subtraction, multiplication and division of whole numbers, decimals, and fractions. Also, some skills will be introduced or advanced in the following mathematical areas: percentages, ratio and proportion, probability, statistics, operations involving integers, algebraic concepts (including solving simple equations), geometry concepts (similarity, areas, volumes, measurement).

### **MATH 8**

**Grade 8**

Course Credit: 10  
Required – if not in Algebra I

Eighth grade mathematics deals with the basic math operation, such as addition, multiplication, subtraction and division and their involvement with fractions, decimals, integers and all rational numbers. The metric system is covered and reoccurs in many units. Geometric measurements involving areas, perimeters and volumes are reintroduced along with ratios and proportions. New areas using percentages, graphs, trigonometry, probability and statistics are covered. Use of variables in equations and expressions will be stressed.

### **ALGEBRA I-8**

**Grade 8**

Course Credit: 10  
Per Administration  
Prerequisite: 93% average or higher in Math 7 with teacher recommendation

For students who may wish to extend their skills and concepts in mathematics before continuing to more advanced work in school. It will deal with variables, understanding the real number system, recognizing the technique of Algebra, applying concepts and skills, and perceiving the roll of deductive reasoning. In short, it will be a math class for those who wish to advance to higher levels of skill in science and related fields. It will have direct application for both Geometry and Algebra II. Students must maintain an 86% or better or students will be placed in Math 8. Upon completion of this course the student will take Geometry. This class completed in the 8<sup>th</sup> grade year, does NOT count toward Scotus' three year math requirement, which needs to be completed during a student's high school years- although it will count towards math credit for college admissions.

**ALGEBRA I (A & B)****Grades 9-10**

Course Credit: 10 credits for each course

Required if not in Algebra I

This course contains the same information as the Algebra I course but the time frame of the course is two years rather than one. The course deals with variables, understanding the real number system, recognizing the techniques of Algebra, applying concepts and skills, and perceiving the roll of deductive reasoning. Emphasis is given to continue their studies in Geometry or Geometry Essentials. Taking Geometry Essentials is mandatory if grade is below 86% for either course.

**ALGEBRA I****Grades 9-10**

Course Credit: 10

Required

For students who may wish to extend their skills and concepts in mathematics before continuing to more advanced work in school. It will deal with variables, understanding the real number system, recognizing the technique of Algebra, applying concepts and skills, and perceiving the roll of deductive reasoning. Emphasis given to applying Algebra concepts to problem solving. In short, it will be a math class for those who wish to advance to higher levels of skill in science and related fields. It will have direct application for both Geometry and Algebra II.

**GEOMETRY ESSENTIALS****Grades 10-12**

Course Credit: 10

Required if not taking Geometry

Prerequisite: Algebra I or Algebra IB

This class is designed for students not taking the college preparatory course of Geometry. It will contain many of the concepts of a typical Geometry course but with less emphasis on proof and deductive reasoning. Students will work with points, lines, planes, and figures that lie in a plane as well as solid figures. Topics include the language and logic of geometry, area, and similarity, with emphasis placed on the vocabulary of geometry. This course will also strengthen the student's basic skills in Algebra. (Typical placement at the completion of the course will be Geometry.)

**GEOMETRY****Grades 9-12**

Course Credit: 10

Required

Prerequisite: Algebra I with "C" average of 1<sup>st</sup> & 2<sup>nd</sup> semesters or instructor permission  
Algebra I (A & B) with 86% for both parts

This course is designed for students to create and discover many geometrical concepts by activities and problems. Concepts are first introduced visually, then analytically, then inductively, and finally, deductively. Students will work with points, lines, planes and figures that lie in a plane, as well as solid figures. Topics include language and logic of geometry, angles and lines, transformations, proofs using congruence, polygons and symmetry, triangle congruence, perimeters, areas, surface areas, indirect and coordinate proofs, similarity, and trigonometry. The course will also strengthen the student's basic skills of Algebra.

**ALGEBRA II****Grades 10-12**

Course Credit: 10

Required for students having complete Algebra I and Geometry

Prerequisite: Geometry and Algebra I

Algebra II is the third course in the college-preparatory series. It provides a review of Algebra and problem solving. The number system is developed more completely in Algebra II to include complex numbers. Other topics include functions and relations; variations; matrices; systems of equations and

inequalities; linear, quadratic, and exponential models; powering functions; exponential and logarithmic functions, and polynomials. Many four-year state colleges, universities, and private institutions require this course for admission. Check the math requirements of individual schools that interest you.

*Dual Credit option with Central Community College (MATH 1150)*

### **ADVANCED MATHEMATICS**

**Grades 11-12**

Course Credit: 10

Elective

Prerequisite: Algebra II

Advanced Mathematics introduces many of the topics that a Pre-Calculus course covers. The content is designed to build upon Algebra II concepts, designed for students not planning to take Calculus their first semester of college. Topics include data analysis, modeling data, probability, sequences and series, various types of functions (trigonometric, quadratic, polynomial, exponential, logarithmic) and their components. This course is a continuation of Algebra II. Many state college, universities, and private institutions are now requiring this course for some major field areas of study. Check the math requirements of individual schools that interest you.

*Dual Credit option with Central Community College (MATH 1150)*

### **PRE-CALCULUS WITH TRIGONOMETRY**

**Grades 11-12**

Course Credit: 10

Elective

Prerequisite: Algebra II with a "B" average all four quarters and final exams on permission from incoming instructor

Pre-Calculus with Trigonometry draw on knowledge obtained in Algebra I, Geometry, and Algebra II. The course covers a wide variety of topics including data analysis, functions and models for data, trigonometry, probability and statistics, sequences and series. Many types of functions are examined, including linear, quadratic, exponential, stepping, sinusoidal, root and powering, logarithmic, and polynomial. Pre-Calculus with Trigonometry is an excellent course for students interested in careers involving mathematics or science (engineering, accounting, computers, business, medicine, etc.). Pre-Calculus with Trigonometry is required to enroll in AP Calculus.

*Dual Credit option with Central Community College (MATH 1600)*

### **CALCULUS**

**Grade 12**

Course Credit: 10

Elective

Prerequisite: Pre-Calculus with Trigonometry with a "B" or better both semesters

The study of calculus builds on previous courses in geometry, algebra, and advanced mathematics. Calculus as a mathematical discipline focuses on two fundamental operations, differentiation and integration, and how they apply to real polynomial functions, trigonometric functions and their inverses, and exponential and logarithmic functions. Calculus is an important course for students interested in science and mathematic-related fields. Students enrolled in this course have the opportunity to earn college credit for their study.

## **PHYSICAL EDUCATION - HEALTH**

(Semester Meets Even/Odd)

### **HEALTH 7**

**Grade 7**

Course Credit: 2.5

Required

This course provides students with accurate information that they can utilize to develop healthy attitudes, behavior patterns, and experience positive peer relationships. Critical thinking and decision-making skills are taught and practiced throughout the course as students are encouraged to recognize that they have the power to choose healthy appropriate behaviors in order to reduce risks. Age appropriate information on the Gateway Drugs and setting personal boundaries will be covered.

(Semester Meets Even/Odd)

### **HEALTH 8**

**Grade 8**

Course Credit: 2.5

Required

Building upon curriculum covered in Health 7 this course covers current health issues involving risky lifestyle behaviors as well as stress and depression. Age appropriate lessons on sexually transmitted infections, sexual harassment, and AIDS are taught with an emphasis placed on chastity. The Archdiocesan Circle of Grace Program is taught.

### **HEALTH**

**Grades 10 -12**

Course Credit: 5

Required

This course will review and build upon the basic principles of exercise and fitness as introduced in the JH physical education curriculum. Current health issues including lifestyle risk factors, eating disorders, basic nutrition, stress, depression, suicide, and alcohol and prescription and illicit substance use and abuse will be covered. Abstinence training including healthy relations skills and STI/HIV information will also be discussed. CPR and basic first aid skills will be introduced.

(Full Year Meets Even/Odd)

### **P.E. BOYS/GIRLS**

**Grades 7-8**

Course Credit: 5

Required

This is a required course for all boys and girls in grades 7 and 8. The course will deal with two concepts. The first concept will be the health and physical well-being of each student through various activities, strength, flexibility, and cardiovascular endurance will be worked on. Secondly, team and individual sports will be taught. Written curriculum will include the five basic principles of fitness and the performance factors of movement.

(Full Year Meets Even/Odd)

### **P.E. 9**

**Grade 9**

Course Credit: 5

Required

This is a required course for all 9th grade boys and girls. It will review and expand upon fitness concepts taught in the junior high curriculum. In this class all students will be following lifting principles and working out in a manner that will promote lifting technique improvement and an increase in overall muscular strength. Agility, flexibility and some cardiovascular endurance activities will also be included.

**RECREATIONAL SPORTS****Grades 11-12**

Course Credit: 5

Required

This class will provide students with an opportunity to participate in a variety of team and individual recreational activities. A general daily warm-up will be used to prepare for participation. Activities available may include, but are not limited to, Frisbee games, flag football, volleyball, mat ball, basketball, noodle hockey, badminton, pickle ball, and one wall tennis and racquetball.

**\*STRENGTH TRAINING****Grades 10-12**

Course Credit: 5

Required

Senior High strength training will focus on improving both muscular strength and endurance. Proper technique using a variety of equipment will be stressed including, but not limited to, free weights, dumbbells, kettlebells and resistance bands. Individualized testing will take place so that participants can track their progress. Each student will participate in a 4 day week lifting program with the 5th day focused on the development of a variety of performance factors and/or team games.

\* Students may repeat activity classes but are NOT allowed to take dual P.E. classes, inclusive of Strength Training in the same semester.

## **SCIENCE**

### **SCIENCE 7**

**Grade 7**

Course Credit: 10  
Required

Seventh grade science is integrated and will include subject matter from the life, physical, and Earth sciences. Topics will include the structure and properties of matter, chemical reactions, ecosystems, Earth's systems, and geologic history.

### **SCIENCE 8**

**Grade 8**

Course Credit: 10  
Required

The eighth-grade standards and indicators help students gather, analyze, and communicate evidence as they formulate answers to questions tailored to student interest and current topics that include: Forces and Interactions, Waves and Electromagnetic Radiation, Energy, Heredity: Inheritance and Variation of Traits, Natural Selection and Adaptations, Space Systems, and History of Earth.

### **BIOLOGY**

**Grade 9**

Course Credit: 10  
Required

Biology is the study of life and includes ecology, general structures and functions of organisms, evolution, cellular processes, heredity, and taxonomy

### **CONCEPTUAL PHYSICS**

**Grade 10-12**

Course Credit: 10  
Prerequisites: Biology, Completion of Algebra I or Algebra IA or 1B and concurrent enrollment in another Mathematics course.

Physics is an exploration of how the universe works! This science attempts to understand and predict how physical objects and quantities will behave. During the year, the students will conceptually analyze topics from some of these areas: force and motion, energy, heat and temperature, wave motion, light and optical devices and electrical circuits. Regular laboratory work compliments classroom discussion and lecture. Students planning on careers in science or related fields will find this course useful.

### **EARTH SCIENCE**

**Grades 10-12**

Course Credit: 10

Topics covered in Earth Science include; meteorology, space science, Earth's history, processes that shape the Earth's surface and systems, and sustainability of Earth's resources.

### **CHEMISTRY**

**Grades 10-12**

Course Credit: 14 credits, double period  
Required (or may choose Conceptual Physics, Accelerated Chemistry, or Earth Science)  
Prerequisite: Biology (with at least an overall B average), Algebra I, Geometry, and be enrolled in or have taken Algebra II.



If the student is enrolled in Algebra II at the same time as taking Chemistry, the student must pass Algebra II. If the student fails Algebra II at the end of the first semester, he or she must drop Algebra II and drop Chemistry. The student must also have passed Biology with at least an overall B average.

The atom and its structure, the periodic table, solutions, and states of matter are examined. Inorganic nomenclature, chemical equations, and stoichiometry are among topics studied. The lab procedures introduce basic skills and safety procedures through a variety of experiments that correlate with material being studied in class.

### **ACCELERATED CHEMISTRY**

**Grades 10-12**

Course Credit: Double Period 20 credits

Required (or may choose Conceptual Physics, Chemistry, or Earth Science)

Prerequisite: Biology (with at least an overall B average), Algebra I, Geometry, and be enrolled in or have taken Algebra II.

If the student is enrolled in Algebra II at the same time as taking Accelerated Chemistry, the student must pass Algebra II. If the student fails Algebra II at the end of the first semester, he or she must drop Algebra II and drop Accelerated Chemistry. The student must also have passed Biology with at least an overall B average.

Accelerated Chemistry was created for those students who have the aptitude and desire to pursue science as a potential career. It is a fast-moving course that requires self-motivation, independent learning, and abstract thought. In-depth study of the atom and its structure, the history of atomic theory, and the many facets of the periodic table are just the beginning. Inorganic nomenclature, stoichiometry, and acid-base chemistry are also included in this course.

### **ANATOMY AND PHYSIOLOGY**

**Grade 11-12**

Course Credit: 10

Elective

Prerequisite: Juniors & Seniors at least 86% yearly average in biology, Accelerated Chemistry

Anatomy and Physiology is the study of the human body's structure and function. Class includes laboratories/dissection and lecture. Any student interested in a health career, or in the structure and function of the human body, is encouraged to take this course.

*Dual Credit option with Central Community College (BIOS 1010)*

### **ADVANCED BIOLOGY**

**Grade 12**

Course Credit: 10

Elective

Prerequisite: Chemistry or Accelerated Chemistry, Juniors only allowed if taken Accelerated Chemistry

This course covers fundamental processes of cells and organisms, cell structure, genetics, evolution, classification, diversity, and interaction of organisms at the molecular, cellular, organismic, ecosystems, and biosphere level. It is designed as both a course for non-majors and as a foundation course for those planning additional work in biology.

### **HEALTH SCIENCES I**

**Grade 11-12**

Course Credit: 5

Introduction to Health Science is designed to give an overview of health science careers and pathways. Topics include; the history of health care, current trends, career options, legal and ethical standards, career readiness skills, safety, measuring vital signs, and BLS (Basic Life Support) certification.

**HEALTH SCIENCES II****Grade 11-12**

Course Credit: 5

Prerequisites: Introduction to Health Sciences

Health Sciences II is designed to provide students a more in-depth exploration of personal interests within healthcare. Topics include; introduction to the organization of the body, medical terminology, medical math, and specific career pathways.

**MEDICAL TERMINOLOGY****Grade 11-12**

Course Credit: 5

This course is designed to help students learn medical language by analyzing their components. The primary focus is on developing both oral and written skills in the language used to communicate within healthcare professions.

*Dual Credit option with Central Community College*

**ADVANCED PHYSICS****Grades 11-12**

Course Credit: 20, Double Period

Elective

Prerequisites: Algebra II, Accelerated Chemistry and concurrent enrollment in Calculus, Pre-Calculus or Advanced Math (or permission of instructor)

Physics is an exploration of how the universe works! This science attempts to understand and predict how physical objects and quantities will behave. During the year, the students will conceptually and mathematically analyze topics from some of these areas: force and motion, energy, heat and temperature, wave motion, light and optical devices, electricity, and magnetism. Regular laboratory work compliments classroom discussion and lecture. Students planning on careers in engineering, science or related fields will find this course useful. Students enrolled in Physics have the option of taking this course for dual credit through Central Community College.

## **SOCIAL SCIENCES**

### **SOCIAL STUDIES 7**

**Grade 7**

Course Credit: 10

Required

This course focuses on the prehistoric age to around the year 1000. Special emphasis will be placed on the Greek and Roman empires and how they especially influenced the styles of both the legal system and the government that we have today. Students will also be introduced to the rise of the Catholic Church and the influence it would have in Europe. Students will get an in-depth look at the countries of the Eastern Hemisphere and learn about the cultures of the countries selected. This includes the government, education, religion, economy and people of the region. The goal of Geography is to promote a general understanding of our world's locations that will greatly benefit students as they move forward in our Social Science curriculum. Mapping activities will be an emphasis along with understanding the nuances of different cultures around the globe. Students will be able to make connections as to how world events in the past and present have shaped our globe and its boundaries today. A fundamental knowledge of our human existence and its relationship to our physical environment will be formed in this course.

### **AMERICAN HISTORY 8**

**Grade 8**

Course Credit: 10

Required

Modern World History focuses on the time period of the Middle Ages to the present time. Students will discover the impact exploration had on the world and the people living in it. Imperialism and the Industrial Revolution are two other points of emphasis as the combination of these two things led to World Wars in the 20th century. Students will also see how the aftermath of those two wars led to controversial issues in the present day.

(Semester meets even/odd)

### **CAREERS 8**

**Grade 8**

Course Credit: 2.5

Required

The eighth grade Careers course is designed to explore student interests and future career options. Students will participate in taking interest inventories and examine various academic and career paths. Several guest speakers from the community will visit the class. Character development will be addressed, examining the social, moral and ethical behavior of Scotus Central Catholic Students. Character is defined as "the quality of knowing what is right and doing what is right." Self-knowledge and awareness may give us an understanding of the right thing to do, but character causes us to do it. Character Development's overall objective is to guide students to a better understanding of modern social principles and to instill in our young adults overt tools and references to make virtuous decisions.

### **WORLD HISTORY**

**Grade 10**

Course Credit: 10

Required

This course will follow world history beginning in the Renaissance Era and ending in modern times. It will pay special attention to European history and how the major events in Europe helped form America and the world we live in today.

**AMERICAN HISTORY II****Grade 11**

Course Credit: 10

Required

This class will follow America through the Reconstruction period to modern times. Emphasis will be placed on the impact of the Industrial Revolution and its effect on America. The class will follow America through World War I and II and how they changed America into a superpower. Students will also discover America's role in the world today and the events that shaped America in the latter half of the twentieth century.

**MODERN GOVERNMENT****Grades 12**

Course Credit: 10

Required

Modern Government is a study of our constitutional system with a close examination of the three main branches of our national government with a view to their development and future potential. Emphasis is given to the political process, including pressure groups, political parties, nominations, elections, and voting behavior. Various activities may be included to stimulate interest and participation in the democratic process.

**MODERN PROBLEMS****Grades 11-12**

Course Credit: 5

Elective

This course is designed for students who wish to study issues, which influence the economic, social, political, and cultural change and development of modern societies. Class time will include discussions, guest speakers, lectures, film presentations, and library research.

**PSYCHOLOGY****Grades 11-12**

Course Credit: 5

Elective

Psychology is a course that gives a student a better understanding of individual human behavior. During the semester the students will be introduced to many aspects of psychology. Some of the subjects that will be studied are personality and attitude development from infancy to the elderly years, psychological disorders, mental health, and mental illnesses. Class time will include individual and group discussions, lectures, experiments, and research projects.

**SOCIOLOGY****Grades 11-12**

Course Credit: 5

Elective

This course examines human relationships and their effect on our society. Major areas of study are culture including sub-cultures and counter-cultures, socialization of the individual from birth through adulthood, gender roles, marriage and the family, current social problems, deviant behaviors, and the effect of mass media on our society. The format of the class includes lecture, discussion, and student presentations.

**STREET LAW****Grades 11-12**

Course Credit: 5

Elective

Street Law is designed to educate students on the practical application of laws. Students learn basic legal principles to apply as a citizen, consumer and employee. Areas of study include laws applying to

minors, contract law, consumer law, employment law, property and landlord/tenant law, insurance, credit law, tort law, and white-collar crimes.

## **SPANISH**

A strong working knowledge of English grammar is recommended. College-bound students are strongly encouraged to take two years. If a student fails the 1st semester, he/she will be required to drop the class. If a student fails the 2nd semester and plans to retake the course, he/she will be required to audit and receive a passing grade the 1st semester of the class prior to repeating the 2nd semester.

Native Spanish speakers who wish to test out of beginning levels of Spanish instruction will be asked to take a placement test or tests to determine the appropriate level to begin their study. A minimum grade of 80% and the test administrator's approval would be required to test out of any level. Students would begin their study of Spanish at the age-appropriate level.

### **SPANISH I**

**Grades 9-12**

Course Credit: 10

Elective

Prerequisite: A grade average of "C" or better in English or teacher permission

The primary purpose of this introductory course is to begin developing students' reading comprehension, vocabulary, writing, listening and speaking skills in Spanish. Students will also become aware of many different aspects of Hispanic culture and become aware of its increasing popularity and influence in the United States. A good working knowledge of English grammar is necessary.

### **SPANISH II**

**Grades 10-12**

Course Credit: 10

Elective

Prerequisite: A grade average of "C" or better in Spanish I

This course continues building on the skills acquired in Spanish I. Students will continue to develop their reading comprehension, vocabulary, writing, listening, and speaking skills. Instruction of basic verb tenses will be continued. Instruction over different aspects of Hispanic culture will be continued. A good working knowledge of English grammar is necessary. Students will be expected to practice speaking the target language and translating to a level of intermediate proficiency.

## **STEAM**

Science, Technology, Engineering, Art, Mathematics

### **STEAM 8**

**Grade 8**

Course Credit: 5  
Required

The eighth grade Careers/STEAM 8 course is designed to explore student interests and future career options. Students will participate in taking interest inventories and examine various academic and career paths. Students will be exposed to topics in Science, Technology, Engineering, Arts, and Mathematics and will complete basic projects in each of those topics. Students will join local business/industry personnel to complete lessons concerning that business/industry and will learn about careers associated with that business/industry. Character development will be addressed, examining the social, moral and ethical behavior of Scotus Central Catholic Students. Character Development's overall objective is to guide students to a better understanding of modern social principles and to instill in our young adults overt tools and references to make virtuous decisions.

### **ELECTRONICS & ELECTRICITY**

**Grades 9-12**

Course Credit: 5  
Elective

This course will study the components used in older and current electronics. Ohm's Law will be used to model the mathematics involved with electricity. The Spark Fun kits will be used in this class to study electronics. Electronic items will be disassembled, and the components identified. Building electricity will be examined and an LED light will be made.

### **HORTICULTURE & FLORTICULTURE**

**Grades 9-12**

Course Credit: 5  
Elective

This class will take care of the courtyard garden and the greenhouses. Students will learn proper gardening techniques. Students will propagate houseplants. Students will study agricultural methods that are used locally. Also studied will be crops produced in Nebraska and the processing of those crops.

### **ENGINEERING STEAM**

**Grades 11-12**

(Prerequisite: Algebra II)  
Course Credit: 5  
Elective

Students will study engineering topics including properties of materials, statics and strengths, and hydraulics and pneumatics. Other aspects including safety and accountability of engineering and science careers will be studied. Local industry partners will be invited into the classroom to share experiences and provide activities.

### **ROBOTICS/PYTHON/CODING**

**Grades 9-12**

Course Credit: 5  
Elective

This course will study the programming language Python. The newest generation of CEENBoTs that run on Python will be used. This course will study robotics and the coding that makes robots work. Drag and drop and numerical coding will be included. Use of the CEENBoTs will also take place along with the addition of servo motors to control robotic arms.

**STEAM ART****Grades 10-12**Course Credit: 5  
Elective

Students will use the machines in the STEAM Lab to make art. Students will gain proficiency in 3D modeling, Adobe Illustrator, and Easel. Machines used will include the 3D printers, Carvey and X-Carve, and the Epilog Zing laser engraver and cutter.

**STEAM FUNDAMENTALS****Grade 9-12**Course Credit: 5  
Elective

This course will introduce students to applications of Science, Technology, Engineering, Arts, and Mathematics. Students will complete basic projects in a variety of topics including electricity, fluid pressure, 3-D printing, robotics, programming, and virtual reality. Students will learn about soft skills and technical communication. Students will be required to keep an engineering notebook. Students will learn about local business/industry when personnel visit the STEAM Lab to work interactively with students on industry specific lessons.

**STEAM SCIENCE****Grades 10-12**Course Credit: 5  
Elective

This course will study how science is used in local industry. Units will include hog production (Pillen Family Farms), corn processing (ADM), hydroelectric power production (Loup Power), medical devices (BD Medical), building and farm materials manufacture (Behlen) and other local industry.

**WELDING/BUILDING****Grades 11-12**Course Credit: 5  
Elective

This class will learn Shielded Metal Arc Welding (SMAW) and Gas Metal Arc Welding (GMAW). In addition, the class will complete a building project. The build could be a backyard shed, outdoor furniture in combination with welding, or a custom order.



## **VISUAL AND PERFORMING ARTS**

The Visual and Performing Art offerings include art, music, speech, and drama classes.

(Semester Meets Even/Odd)

### **ART 7**

**Grade 7**

Course Credit: 2.5  
Required

In junior high art, students will be learning the 7 elements of art as they experiment with a variety of different materials, techniques and subjects. Art students will keep a journal where they can practice drawing, writing, brainstorming.

(Semester Meets Even/Odd)

### **VOCAL MUSIC 7**

**Grade 7**

Course Credit: 2.5  
Required (if not in Band)

This course is designed to help the young singer develop his or her voice in conjunction with learning general music theory and history. Students will study unison, two-part, and three-part arrangements to present in a minimum of one concert each semester.

(Semester Meets Even/Odd)

### **ART 8**

**Grade 8**

Course Credit: 2.5  
Required

In junior high art, students will be learning the 7 elements of art as they experiment with a variety of different materials, techniques and subjects. Art students will keep a journal where they can practice drawing, writing, brainstorming.

(Semester Meets Even/Odd)

### **VOCAL MUSIC 8**

**Grade 8**

Course Credit: 2.5  
Required (if not in Band)

This course continues the vocal program begun in Vocal Music 7. Students will study more advanced developments of the voice and general music theory and history. Students will study unison, two-part, and three-part arrangements to present in a minimum of one concert each semester.

(Full Year Meets Even/Odd)

### **JUNIOR HIGH BAND**

**Grades 7-8**

Course Credit: 5  
Elective

This class is a continuation of instruction from the elementary grades, centering on refining the instrumental skills of the musician. Students will have a working facility on their instruments of right notes, proper breathing posture, embouchure knowledge, and technique of scales is required. Areas of performance will include concert band and marching band. Junior high students who do not have prior band experience are welcome to begin lessons and to work into band at the director's discretion. A minimum of two concerts per year will be given. This is a full-year course.

(Full Year Meets Even/Odd)

### **FUNDAMENTALS OF ART**

**Grades 9-12**

Course Credit: 5, Even/Odd  
Required (if not in Band or Shamrock Singers)

In this visual art class, students will explore art as a way of learning about the world around them. The first semester will be focused on the fundamentals of art and the second semester will be focused on using art with different subjects of knowledge such as literature, history, science and math. Students will learn and share about how all of these areas of knowledge are linked together and can be used to benefit one another. Students will use a variety of materials including pencil, charcoal, scratch board, cardboard and paint.

### **BAND**

**Grades 9-12**

Course Credit: 10  
Elective

The high school band is a balanced group who will be instructed in performing band music while incorporating critical judgment concerning pitch, tone, dynamics, rhythm, and musicianship. Areas of performance will include concert band, pep band, and marching band. High school students who wish to participate in band are welcome to begin lessons and to work into band at the director's discretion. A minimum of two concerts will be performed each year. Senior high band will focus on learning the control and discipline needed to play in a large ensemble as well as the knowledge and understanding of any music theory that may be necessary. This is a full-year course.

### **JAZZ BAND**

**Grades 9-12**

Course Credit: 4, Two Days a Week  
Elective

Jazz Band meets on at 7:00 a.m. one or two mornings per week. This course is designed to expand interest and knowledge of many styles of music including popular, swing, and contemporary jazz. This group will perform for concerts, community events, and school functions. Students selected will be required to attend rehearsals outside of class time. Jazz Band instrumentation includes: tenor sax, alto sax, baritone sax, trumpets, trombones, percussion, keyboard, bass guitar and rhythm guitar.

### **SHAMROCK SINGERS**

**Grades 9-12**

Course Credit: 10  
Elective

Shamrock Singers is a mixed choir open to all high school students. In this class, students will focus on harmonization, blend, tone production, and style through performance pieces. Participation in other choral events include (but is not limited to) District Music Contest, all-school Masses, and school concerts/performances. This is a full-year class.

### **DRAWING AND PAINTING**

**Grades 10-12**

Course Credit: 5  
Elective  
Prerequisite: Fundamentals of Art or 10<sup>th</sup>-12<sup>th</sup> grade

This class will include a lot of drawing in the first quarter and a lot of painting in the second quarter. The first half of the semester will focus on drawing realistically with attention to proportion, shading and composition. Art students will be using pencil, charcoal, colored pencil, ink and pastel. The second half of the semester will focus on painting. Art students will start with watercolor and progress into acrylic and oil paint. Each quarter will end with a project that is completely up to the students' choosing as they expand on their interests.

Art history will be taught as a way of expanding students' inspiration and getting an understanding of how art has developed, changed and affects everyday life. Students will use a drawing journal to record and experiment with their own ideas.

**GRAPHIC DESIGN I****Grades 10-12**Course Credit: 5  
Elective

There is power in visual communication. If you want to start a business, run for office, get people together, bring awareness to a social problem or promote what you do, it's hard to get anywhere without graphic design.

In Graphic Design I students will learn how to use the computer programs Photoshop and Illustrator while making their own computer art. In the second half of the semester students will learn design principles as they use these tools to create posters, info graphics and illustrations. Some work done in this class may be submitted for state journalism.

**GRAPHIC DESIGN II****Grades 11-12**Course Credit: 5  
Elective

Prerequisites (Students must complete Graphic Design with a 93 percent or higher)

In Graphic Design II students will continue to build off of the skills learned through programs like Photoshop and Illustrator in Graphic Design I. Students will now have the skills needed for more advanced projects. There is also more potential to work like a real graphic designer as the student may be creating t-shirts, posters and other media needed for organizations within the school. Some work done in this class may be submitted for state journalism.

**SCULPTURE AND MIXED MEDIA****Grades 10-12**Course Credit: 5  
ElectivePrerequisite: Fundamentals of Art or 10<sup>th</sup>-12<sup>th</sup> grade

This class will include a lot of sculpture and a lot of art processes not covered in drawing and painting class. In the first half of the semester, students will use their hands to create 3D art with a variety of materials including cardboard, wire, clay and other found materials. The second half of the semester, students will experiment with art methods not included in drawing, painting or sculpture such as printmaking, collage and photography. Each quarter will end with a project that is completely up to the student's choosing as they expand on their interests.

We will also be learning about art history as a way of expanding our inspiration and getting an understanding of how art has developed, changed and affects our everyday lives. Students will use a drawing journal to record and experiment with their own ideas.

**ART ADVANCED****Grades 11-12**Course Credit: 5  
Elective

Prerequisite: Junior or Senior, taken Fundamentals of Art, Graphic Design, Drawing &amp; Painting, or Sculpture and Mixed Media with a B+ or over

This course is for the maturing artist who has already learned foundational skills in drawing, painting, sculpture and mixed media and is interested in advancing their work toward their own personal vision. The artist's focus will be on developing a portfolio at the end of the course that is representative of their journey as an artist. Three projects are expected each quarter that represent nine weeks of work. Themes for the work will be given as a way of inspiring students and creating collaborative and critical discussion about student work. Art history will be explored. An understanding of where art has been is critical to imagining where it could advance. Students will be required to have a drawing journal and will use it outside of class.

**MEDIA CENTER AIDE**

**Grades 9-12**

Elective

The student will develop cataloging skills for materials. He/she will also learn to operate and maintain equipment and materials. No credit will be counted toward graduation

**OFFICE AIDE**

**Grades 9-12**

Elective

The student will be responsible for answering the telephone, taking messages, and assist with the counter. There are various other duties consisting of photocopying, errands, and collating. No credit will be counted toward graduation.

**TEACHER AIDE**

**Grades 9-12**

Elective

The student will learn to assist teachers. He/she will work on bulletin boards, operate the copy machine, run errands and other miscellaneous duties. No credit will be counted toward graduation.