

CATHEDRAL

A CATHOLIC SCHOOL • GRADES 6-12



Course Catalog

2023-2024

HIGH SCHOOL

The Right School *Does* Make a Difference

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 A MEMBER OF CATHOLIC COMMUNITY SCHOOLS

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How To Use This Course Book

This course book is designed to help you select the right courses for your 4 year educational journey at Cathedral High School. Following the guidelines set forth in this book will qualify you for graduation, develop your interests, and prepare you for your future. To start, read through the Registration Information to get a good sense of how to register and what the graduation requirements are. Page 4 lays out all required credits per subject and course titles from Freshman year through Senior year.

Next, read through the course descriptions. These are organized by subject starting on page 5. Under each subject heading is a quick outline of the corresponding required and elective courses by grade. Following each subject you will find the course descriptions, your greatest tool for helping you make decisions based on your interests. Its recommended to look ahead to future courses you may want to take so you can work towards satisfying the prerequisites. Each course description includes the grade(s) in which it is offered, the number of credits, the duration of the course, and any prerequisites. Courses with two course numbers (##### or #####) can be taken either Fall or Spring semester. Year long courses must be taken both semesters.

When choosing classes, plan to take classes that are progressively more difficult and that challenge you to develop your knowledge base and skills. Equally important is selecting a variety of classes to explore and discover interests and talents of which you may be unaware. Be prepared to overcome difficulties through determination and follow through, and know that we at Cathedral have your back!

LOOKING AHEAD: COLLEGE LEVEL COURSES AT CATHEDRAL

Cathedral High School students have the amazing opportunity to take highly challenging, college level courses which may qualify them to earn college credit. Advanced Placement (AP) courses are taught by our excellent Cathedral educators, covering topics and concepts that would typically be taught in 1st and 2nd year college settings, and involve an exam designed and graded by the College Board to assess student proficiency and knowledge. College in the Schools (CIS) courses are taught at Cathedral by our instructors who partner with instructors at St. Cloud State University or Southwest Minnesota State University. Our school councellors can help guide you to the level of challenge most appropriate for you. More information about these great opportunities is listed on page 18.

COLLEGE PREPARATION AND ENTRANCE REQUIREMENTS

Many students that enter Cathedral already have plans to pursue continuing education at any number of elite schools nationally and abroad. The Cathedral curriculum is designed to prepare our students to enter a secondary education after graduation, and the course requirements are set to meet the minimum requirements of most 4 year colleges. However, it is important to note that entrance requirements vary from college to college, and can even vary from major to major within institutions. Therefore it is important for college-bound student to check the entrance requirements for each prospectice college and major. For example, a college could require three years of mathematics from all entering students, but engineering majors might be required to complete four. A college may not require art or music for enrollment, but art majors might be required to present a portfolio and music majors may be required to audition. Often each college will list their requirements on their webpage. For the highly directed student, planning their Cathedral course development to meet their desired college and major requirements will create a seamless transition beyond graduation.

Now... Let's Get Started!

REGISTRATION INFORMATION

REGISTRATION REQUIREMENTS

All students must take at least 3.25 credits per semester and 6.5 credits per year.

To graduate each student must earn 26 credits, meeting the minimum requirements in the following subjects:

- 2 credits in world language
- 3.5 credits in theology
- 4 credits in English
- 3 credits in social studies
- 3 credits in mathematics
- 3 credits in science
- 1 credit in physical education
- 0.5 credit in health

The remaining 6 credits will be earned through electives courses.

Students are also required to complete 5 hours of service per semester/10 hours per year prior to graduation. More information regarding the service requirement is available on our website www.cathedralcrusaders.org.

REGISTRATION PROCEDURES

1. Study the course catalog. Check that you have met the prerequisites for your desired courses.
2. Discuss choices with your parents / guardians and the school counselor.
3. Register for courses:
 - Current Cathedral students will turn in their course registration forms during the school day.
 - Registration night will be held for all new students and for any current students who need assistance.
4. If for any reason a course becomes unavailable, we will do our best to honor the student's choice of alternative courses in their order of preference.

COURSE CHANGES

Requests for course changes should be submitted prior to the start of the 2023-2024 school year and require the consent of parent(s)/guardian(s) and school administration. This consent does not guarantee that the requested change will be made to the student's schedule.

After the second week of the semester, courses may no longer be dropped from a student's schedule. If registered for a year long course (2 semesters), a student is expected to remain enrolled in the course for the entire year.

If recommended by the teacher, a student may be changed to a different level of a course if past performance and testing indicate the change would be beneficial to the student.

REQUIRED COURSES BY GRADE

Listed below are the required classes for each grade level. Each semester students must register for a minimum of 3 1/4 credits per semester (combined required and elective courses).

FRESHMAN

ENGLISH: Literature/Composition/Reading 9	1 credit	p. 16
HEALTH: Health I	1/2 credit	p. 20
MATH: College Prep Algebra, Intermediate Algebra, Linear Algebra or Geometry	1 credit	p. 18
PHYSICAL EDUCATION: Physical Education I (<i>Can be taken freshman or sophomore year</i>)	1/2 credit	p. 20
SCIENCE: Earth and Space Science	1 credit	p. 21
SOCIAL: World Geography (1/2 credit) or AP Human Geography (1 credit)	1/2 - 1 credit	p. 23
THEOLOGY: Gospels: The Revelation of Jesus Christ in Scripture	1/2 credit	p. 24
Christology: Who is Jesus Christ?	1/2 credit	p. 23
*WORLD LANGUAGE: (Required to complete Level I and II of the same language).....	1 credit	p. 24-25

SOPHOMORE

ENGLISH: Language Arts 10	1 credit	p. 16
MATH: College Prep Algebra, Geometry, Informal Geometry, Intermediate Algebra, or Pre-Calc.	1 credit	p. 18
PHYSICAL EDUCATION: Physical Education I (<i>If not taken freshman year</i>) or a Physical Education elective (<i>Can be taken sophomore, junior or senior year</i>)	1/2 credit	p. 20
SCIENCE: AP Biology or Biology I.....	1 credit	p. 20-21
SOCIAL: Government	1/2 credit	p. 23
THEOLOGY: History of the Catholic Church.....	1/2 credit	p. 24
Sacraments: Privileged Encounters with Jesus Christ	1/2 credit	p. 24

JUNIOR

ENGLISH: Expository Writing-Am. Literature or AP English, Literature and Composition ...	1 credit	p. 14-15
MATH: Algebra II, AP Calculus AB, College Prep Algebra, Informal Geometry, or Pre-Calculus	1 credit	p. 18
PHYSICAL EDUCATION: Physical Education elective <i>If not taken sophomore year</i>	1/2 credit	p. 20
**SCIENCE: (Choose from electives)	1 credit	p. 20-21
SOCIAL: United States History.....	1 credit	p. 23
An economics class (1/2 credit) is required. This can be taken as a junior or senior.		
THEOLOGY: Ecclesiology: Jesus Christ's Mission Continues in the Church.....	1/2 credit	p. 23
Discipleship: Life in Jesus Christ	1/2 credit	p. 23

SENIOR

ENGLISH: (choose from electives. A minimum of 1/2 credit must be a literature class)	1 credit	p. 15-16
PHYSICAL EDUCATION: Physical Education elective (<i>If not taken sophomore or junior year</i>)	1/2 credit	p. 20
SOCIAL: World History and must choose additional 1/2 credit from electives.....	1 credit	p. 23
An economics class (1/2 credit) is required. If not taken as a junior, will be required as a senior		
THEOLOGY: (choose from electives)	1/2 credit	p. 23-24

* This requirement needs to be fulfilled by the end of senior year.

** This requirement can be fulfilled in either junior or senior year and must include a chemistry or physics course.

COURSES BY SUBJECT - BUSINESS AND ENGINEERING

Business

ELECTIVES

Gr. 9-10	Principles of Business
Gr. 9-12	Graphic Design in the Business World
Gr. 10-12	Accounting

A number of economics classes can found on page 22.

Principles of Business (2134)	Gr. 9-10	1/2 credit
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This course is designed as an introductory business class. The students will explore the basic functions of business, including the business plan itself, marketing, and basic economic concepts. Students engage in activities that enhance their understanding of supply and demand, international business, business ethics, and government laws regulating business.

Graphic Design in the Business World (1137 or 2137)	Gr. 9-12	1/2 credit
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Develop and refine creative skills in combination with business and advertising. Explore current graphic design software to learn about basic typography, photo manipulation, and other design activities. The emphasis will be on student problem solving skills, creativity, and design features. Students will be using various technologies such as digital cameras, scanners, and digital media software. This is a project driven class that focuses on real world applications.

Accounting I (1128 & 2130)	Gr. 10-12	1 credit
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Accounting, the language of business, is a course designed to meet the needs of students interested in obtaining a business degree at the post-secondary level, as well as interested in managing and analyzing personal, family, institutional, and commercial affairs. The content of the course will be taught using the manual, spreadsheet, and computerized accounting program approach. Students will have the opportunity to explore and utilize an accounting simulation packet. This simulation will provide the student with the opportunity to have a real work experience.

Engineering

ELECTIVES

Gr. 9-11	Computer Coding
Gr. 9-10	Computer Science Discoveries
Gr. 9	Gateway to Engineering and Design
Gr. 9-12	Introduction to Engineering Design
Gr. 10-12	Advanced Welding & Metal Fabrication
Gr. 10-12	Applied Engineering & Manufacturing I
Gr. 10-12	Applied Engineering & Manufacturing II
Gr. 10-12	Principles of Engineering
Gr. 11-12	Applied Engineering Team

Computer Coding (2461)	Gr. 9-11	1/2 credit
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This course will build on the skill sets gained in CSD (web, game & app design). The course will focus on learning various computer languages, as well as other topics in computer science.

Computer Science Discoveries (1459 or 2459)	Gr. 9-10	1/2 credit
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This is an introductory computer science course. It will include coding (programming), web design, interactive games, animation, data analysis and more! This class will empower students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun.

Gateway to Engineering and Design (1195 or 2195)	Gr. 9	1/2 credit
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This is a Project Lead the Way course. Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. They work in teams to complete design challenges. Students create virtual images of designs and learn to use the same software as industry professionals. Students learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Introduction to Engineering Design (1193 & 2193)	Gr. 9-12	1 credit
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Year long course
This is a Project Lead the Way course. This course is for students interested in engineering, design, architecture or related fields. The course will utilize AutoDesk Inventor, 3-D modeling CAD software to teach problem solving skills. The curriculum will focus on communication skills through activities, hands-on projects, and presentations. Students will apply math and science skills and gain experience in preparing for a career in engineering or a related field. Testing may be available to receive college credit. Class sizes may be limited.

Prerequisite: Students taking this course in 9th grade must have taken the Gateway to Engineering and Design in 8th grade. Not a requirement for grades 10-12.

Principles of Engineering (1194 & 2194)	Gr. 9-12	1 credit
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Year long course
This is a Project Lead the Way course. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Prerequisite: Students taking this course in 9th grade must have taken the Gateway to Engineering and Design in 8th grade. Not a requirement for grades 10-12.

Advanced Welding & Metal Fabrication (1192 or 2192)	Gr. 10-12	1/2 credit
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This is a hands-on learning course where students will build on their experience in welding and other metal fabrication skills from AE&M I. While using other metal fabrication tools and skills, this course will focus primarily on welding including MIG, Stick and TIG methods of welding steel and aluminum. In this course students will design and build projects that will challenge their welding abilities and enhance their learning. Professional welders from area manufacturing companies will assist student periodically.

Prerequisite: Applied Engineering and Manufacturing I
Course fee: \$30.00

Applied Engineering & Manufacturing I (1197 or 2197)	Gr. 10-12	1/2 credit
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(lab 5197 or 6197)
This course has a required lab every other day

This hands-on learning course will introduce students to the world of mechanical and manufacturing engineering. In this class students will learn print reading and drawing, precise measuring and some basic metal fabrication techniques including welding, sawing, milling, turning and more. This course will include touring some modern manufacturing facilities and meeting with professionals from the area to learn more about engineering careers.

Course fee: \$30.00

Applied Engineering & Manufacturing II (1198 or 2198)	Gr. 10-12	1/2 credit
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(lab 5198 or 6198)
This course has a required lab every other day

Applied Engineering and Manufacturing 2 (AEM2) will build on the skills and knowledge students acquired in AE&M1. Using these skills and working in small groups, students will design and build a working steam engine. Students will then use their engine to accomplish a mechanical task. Students will also tour local engineering companies and meet with engineers to hear real life examples of careers available in the area.

Prerequisite: Successful completion of Applied Engineering and Manufacturing I

Course fee: \$30.00

COURSES BY SUBJECT - ENGINEERING AND ENGLISH

Applied Engineering Team (2199) Gr. 11-12 1/2 credit

This course is designed to provide students with real life mechanical engineering and manufacturing experience. Using and building on skills from Applied Engineering 1 and 2, students will brainstorm, design, build and test a project with real life application. This is an opportunity to take what has been learned in previous classes to the next level. Students will bring an idea from its conception to reality.

Prerequisite: Successful completion of Applied Engineering I and II. Completion of the Intro to Engineering Design course is helpful but not required.

Course fee: \$75.00

English

REQUIRED - 4 credits

- Gr. 9 Literature/Comp. Reading
- Gr. 10 Language Arts 10
- Gr. 11 American Literature-Writing or AP English Literature & Composition Writing
- Gr. 12 Choose 2 from grade 12 electives (one must be British Literature, European Literature, or Multicultural Literature)

ELECTIVES

These courses meet the 12th grade English requirement (If taken in 10th or 11th grade, these electives cannot be used to meet the 12th grade requirement.)

- Gr. 10-12 Film Studies
- Gr. 11-12 Creative Writing
- Gr. 11-12 Everyday Practical Writing
- Gr. 12 British Literature
- Gr. 12 European Literature
- Gr. 12 Introduction to Rhetorical and Analytical Writing
- Gr. 12 Media and Society
- Gr. 12 Multicultural Literature

Literature/Composition/Reading 9 Gr. 9 1 credit
(1150 & 2151)

This course encompasses English study in the areas of literature, composition, and reading skills. Students will study the elements of fiction through reading a variety of literature ranging from contemporary authors to Shakespeare. Composition is interwoven throughout the year-long course. Students will write a literary theme analysis, research paper, and short response essays. Research skills are also emphasized. Students will practice evaluating online sources, developing a thesis statement, writing direct quotes, writing summary quotes, and documenting sources using MLA documentation. Students will also work on improving vocabulary throughout the year.

Film Studies Gr. 10-12 1/2 credit
(1177)

Students will learn how to discuss and analyze various types of film by being introduced to new terminology and theories. The class will analyze a number of films both to practice the new vocabulary as well as to gain an appreciation for a variety of movies presented throughout history. There will be a focus on writing, reading (textbook, novel, screenplay, etc.) and speech throughout the course which includes a compare / contrast essay, filmmaker research assignment, and more.

Language Arts 10 Gr. 10 1 credit
(1152 & 2153)

Language Arts 10 weaves together composition, literature, vocabulary, and public speaking. In the area of composition, students will continue to build upon the skills presented in 9th

grade Literature/Composition class and work toward using more analytical and critical thinking skills. Students will write a 4-6 page research paper that correctly uses MLA documentation. The course covers a variety of literary genres. Students will read dramas, write an analytical paper about one of the works read, and will learn about the time periods reflected in the dramas. Communication theory is combined with practical speaking experiences. Students will learn to plan, organize, outline and present a variety of speeches. A vocabulary text is used throughout the year to expand students' writing and speaking.

American Literature- Writing Gr. 11 1 credit
(1146 & 2147)

This course emphasizes both the historical and contemporary development of American literature so that students experience the richness and diversity of their literary heritage. Students will study a variety of literary forms, which may include novels, poetry, short stories, non-fiction, graphic novels, and memoirs. Students will practice logical, coherent writing in a variety of forms and styles and complete projects relating to the texts studied. In addition, students will study vocabulary and grammar/mechanics.

AP English, Literature and Composition Gr. 11 1 credit
(1148 & 2149)

This advanced placement course provides a greater opportunity for exploration and analysis of literature than does the regular American Literature course. The course includes American and British writers and concludes with contemporary literature. Poetry, short stories, plays, novels, and essays are studied. In AP Composition the students will learn to master the multi-paragraph expository essay. Students will also learn to use research and documentation skills to write literary analysis papers using the criteria that the College Board has established for judging AP essays. Students will actively participate in discussion, and prepare by thoroughly annotating and journaling on course material. Students enrolled in this course will take an advanced placement examination in May.

Prerequisites:

- A minimum B+ average in all high school English courses.
- A written essay which indicates a willingness to be an active participant in discussion, to write extensively in a reading journal, and to read extensively with attention to detail.

Course fee: \$100.00

Creative Writing Gr. 11-12 1/2 credit
(2188)

This course provides students with an opportunity to develop their creativity through written expression. Students are challenged and encouraged to create a multi genre collection of literary works. Students learn how to employ character development, plot, structure, setting, and narrative voice. Students will also write structured and unstructured poetry using a variety of techniques. Students who take this course must be prepared to both write creatively and share their writing with the class.

- If taken in 11th grade, this elective does not fulfill a senior English requirement.
- Juniors need approval from the Creative Writing teacher to take this course.

COURSES BY SUBJECT - ENGLISH AND INTERDISCIPLINARY

Everyday Practical Writing (2187) **Gr. 11-12** **1/2 credit**

Students will learn to write and structure professional preparation and correspondence, including resumes, memos, letters, executive summaries, e-mails and reports. Longer reports will include proposals, mechanism reports, and multi-step, collaborative reports. Students will learn to represent information for different audiences, such as co-workers, the public and upper-level administration, and they will use various media such as powerpoint presentations to enhance their messages. The course will emphasize working in groups, treating group members ethically, developing timelines for projects and dividing work within the group.

British Literature (2183) **Gr. 12** **1/2 credit**

Students must elect to take this class, European Literature, or Multicultural Literature to meet their senior requirement.

Unlikely heroes. Damsels in distress. Evil Creatures. These are just a few of the types of characters encountered in many works of British literature. Throughout the semester students will work with epic poems, plays, poetry, novels, historical documents, and speeches. This course will follow literary themes, motifs, and satirical elements common to this genre. British Literature is rich with classic works and renowned authors and is a key component of a broad understanding of literature.

European Literature (2182) **Gr. 12** **1/2 credit**

European Literature studies the beginnings of Western literature as found in the Greek writers Homer and Sophocles, to more contemporary authors such as Hesse, Kafka, Camus, and Tolstoy. A critical understanding of the content and ideas rather than the writing technique is emphasized because all the works are read in translation. The basic questions that frame the class are: Who am I? What is my relationship to other people? What is my place in the universe? Students will be required to write a three to five page literary research paper during one quarter of the course.

Prerequisites: Students must have a B average in all other English classes or written permission from the teacher.

This course is recommended for college bound students.

Introduction to Rhetorical and Analytical Writing (3051) **Gr. 12** **1/2 credit**

This is a College in the Schools course offered semester 1. This course introduces students to the theory, principles, and processes of effective written communication typically encountered in college courses. Emphasis is placed upon critical thinking, critical reading, argumentative writing, and community discussion. Students will write a minimum 5,000 words (20 pages) for major assignments. Additional writing – such as in-class compositions, peer reviews, and summaries, among other things – will also be included. Students will earn four credits for this course through St. Cloud State University.

Program Eligibility: Be in the top one-half of your class or have a test score at or above the 50th percentile on any nationally standardized test.

Prerequisites:
A score of 18 on ACT English OR a score of 21 on ACT Reading.
Course fee: The fee for this course will be determined by the number enrolled in the course.

Media and Society (1171) **Gr. 12** **1/2 credit**

In this course students will analyze a variety of media including advertising, television, film, online content, books, music and more. Students will study and discuss the role media plays in contemporary society and culture. They will look at how the media shapes our perceptions of the world. They will eventually develop creative skills to create a variety of media texts and works.

Multi-Cultural Literature (1166) **Gr. 12** **1/2 credit**

Multicultural Literature is a one semester course designed to help students understand literature from different cultural perspectives and to develop knowledge and appreciation of the racial, religious, and ethnic diversity of our world. Through contemporary literature and writing, students will discover how cultural perspectives influence lives and literature. Students will write short reaction papers and journals for this course. Students are also required to write a research paper on a selected topic.

Interdisciplinary

ELECTIVES

Gr. 10-12	Peer Tutoring
Gr. 11-12	Teacher Aide
Gr. 12	Elementary Teacher Assistant

Peer Tutoring (For credit: 1143 or 2145) **Gr. 11-12** **1/2 credit**

(For service hours: **Gr. 10-12** 1144 or 2146)
The Peer Tutoring Program is for students willing to share their academic strengths with others. Tutors will meet daily in the Library with Peer Tutoring Coordinators who match them with other students in need of assistance. This course focuses on leadership, mentoring, communication, and study skills. Peer tutors must be committed to the program and good attendance is critical. Students can request to tutor for credit, which is graded Pass/Fail, or for Service Hours. Confidentiality is a requirement of this program.

Teacher Aide (1983 or 2983) **Gr. 11-12** **1/2 credit**

Students may request to have one semester per year to work with a classroom teacher to assist with various tasks. Students will need to complete an application indicating the course area of interest. Once accepted, students will be assigned to a teacher. This course is graded Pass/Fail and not calculated into the GPA.

Elementary Teacher Assistant (1139 or 2139) **Gr. 12** **3/4 credit**

This course is for seniors interested in developing skills in working with children and gaining experience in an elementary classroom. Students will be placed in area elementary schools and will work under the supervision of a classroom teacher. The course is only taken for one semester and is graded Pass/Fail.

STUDENTS WILL NEED TO PROVIDE THEIR OWN TRANSPORTATION TO AND FROM THE ELEMENTARY SITE.

Students who participate in this program may not register to be a teacher aide during the same school year. An application is required for this course.

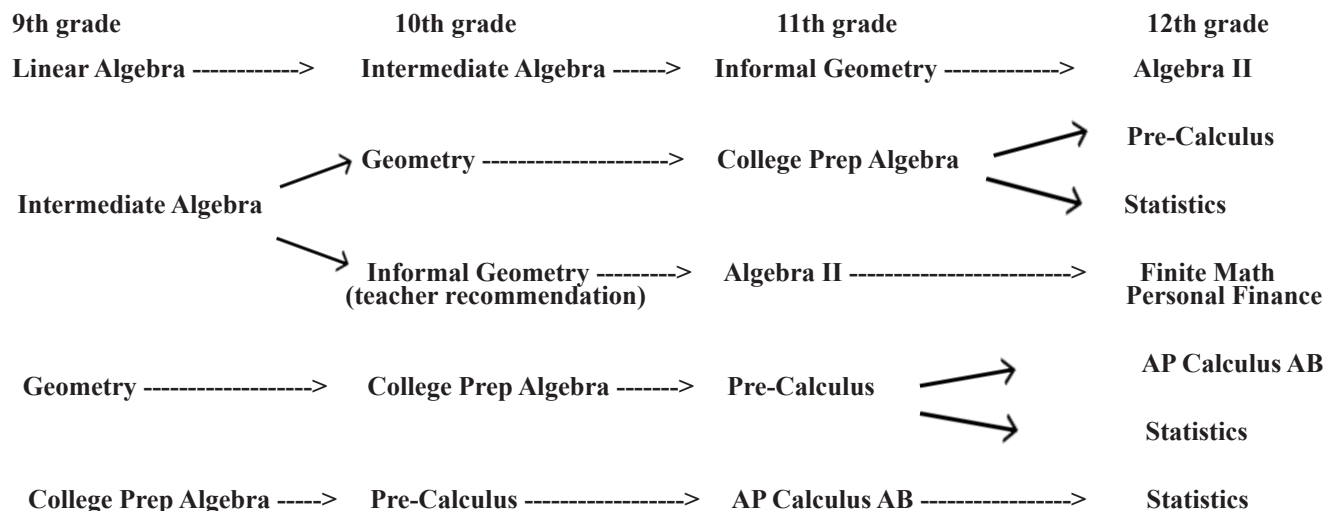
COURSES BY SUBJECT - MATHEMATICS

Mathematics

All new 9th grade students will be placed in a math course upon receipt of their transcripts.

Students are generally placed in one of the following sequences.

REQUIRED: 3 CREDITS



Students should locate their current math course in the flow chart and then follow the arrow to determine their next math course. If a student fails 2nd semester of a math course, the teacher could recommend that the entire year is repeated. To advance to the next math course, non-accelerated students must have a "C-" or better in Linear Algebra & Intermediate Algebra.

Linear Algebra **Gr. 9** **1 credit**
 (1656 & 2656)
 This course prepares students for Intermediate Algebra. Topics include integers, rational numbers, simplifying multi-variable expressions, multi-step equation solving, graphing linear equations, properties of exponents, and probability.

Intermediate Algebra **Gr. 9-10** **1 credit**
 (1204 & 2204)
 This course concentrates on solving equations, inequalities, and graphing. Linear, quadratic, exponential, and rational relationships are introduced. Each student needs a scientific, non-graphing calculator.

Geometry **Gr. 9-10** **1 credit**
 (1214 & 2215)
 This course is the study of points, lines, planes and solids and the examination of their properties, measurements and mutual relationships in space. Formal proofs, congruence, similarity, right triangle trigonometry, coordinate geometry, area and volume of figures are some of the topics covered. Geogebra will be used to discover and explore geometric principles.

Informal Geometry **Gr. 10-11** **1 credit**
 (1210 & 2211)
 (Teacher placement only)
 This course is designed to cover all the geometric concepts usually presented in a formal geometry course without the rigor of formal proof. It emphasizes a hands-on approach to learning geometry skills.

Algebra II **Gr. 11-12** **1 credit**
 (1206 & 2207)
 This course is in the alternate sequence and is designed to review and build upon the concepts developed in Intermediate Algebra. A TI-84 Plus calculator is required for this course.

Prerequisite: Completion of Algebra and a Geometry course and recommendation by a math teacher.

College Prep Algebra **Gr. 9-12** **1 credit**
 (1208 & 2209)
 This course is designed for students that have a good background in Algebra. Topics include polynomial functions, exponential functions, logarithms, trigonometry, and probability. In addition the basic theorems, techniques and skills of algebra are further developed and their use expanded to the complex number system. A TI-84 Plus calculator is required for this course.

Pre-Calculus **Gr. 10-12** **1 credit**
 (1216 & 2217)
 This course is designed to prepare students for the material and rigor in a calculus class. Topics covered will include concepts of algebra (real numbers, functions, graphs of functions, exponential and logarithmic functions), trigonometric functions, analytic trigonometry, applications of trigonometry, and analytic geometry. Students use graphing calculators, Desmos, and group discovery activities to build connections and conceptual understanding of complex topics. A TI-84 Plus calculator and a scientific calculator is required for this course.

AP Calculus AB **Gr. 11-12** **1 credit**
 (1220 & 2221)
 This course is designed to prepare students for the Advanced Placement exam given in May. The concept of the derivative is introduced along with its applications: slopes of tangent lines, rates of change, maximums and minimums, related rates, and others. Also, integral calculus is introduced with the concept of the antiderivative and its applications. A TI-84 Plus calculator is required for this course.

Prerequisites: Students who have earned at least an A- in PreCalculus are automatically admitted. Any others need instructor approval to enroll.

Course fee: \$100.00

COURSES BY SUBJECT - MATH AND PERFORMING ARTS

Finite Math **Gr. 12** **1/2 credit**
(1122)
Finite Math introduces math topics required for college Business and related majors. Topics include linear, polynomial, rational, exponential, and quadratic functions, along with set theory. Applications include linear personal finance, probability, and descriptive statistics. A TI-84 Plus calculator is required for this course.

Personal Finance **Gr. 12** **1/2 credit**
(2228)
Personal finance is designed for students to learn financial literacy. Students will learn how to build savings and to avoid the dangers of debt. Topics include savings, investment options, wealth building, saving for college, debt, consumer awareness, credit bureau and collection practices, budgeting, bargain shopping, career choices, taxes, and the ins and outs of insurance.

Statistics **Gr. 12** **1 credit**
(1176 & 2177)
This course is an introduction to statistical concepts and methods. Topics include displaying and describing categorical and quantitative data, correlation and regression analysis, data gathering methods, randomness and probability, sampling models, confidence intervals and hypothesis testing. Students will learn to gather, analyze, and interpret data. Students have the option of taking the AP Statistics test. A TI-84 Plus calculator is integrated throughout and is required for the course.

Performing Arts

ELECTIVES

- Gr. 9-12 Advanced Theatre
- Gr. 9-12 Music Theory I
- Gr. 9-12 Music Theory II
- Gr. 9-10 Varsity Band
- Gr. 9-12 Varsity Choir
- Gr. 9-12 Varsity Orchestra
- Gr. 10-12 Concert Band
- Gr. 10-12 Concert Choir
- Gr. 10-12 History of Rock and Roll

Advanced Theatre **Gr. 9-12** **1/2 credit**
(2176)
Advanced Theatre will allow students to build and apply their theatrical skills directly to class-chosen scripts. Upon reading (or writing) and choosing scripts based on class size, students will learn what goes into creating a show, both from a performance and staff perspective. All students are ensured to be placed in a role regardless of experience or ability. In addition, this class will have two after school performances (similar to band, choir, or orchestra) and can be taken multiple times due to the change in script selection each semester.

Music Theory I **Gr. 9-12** **1/4 credit**
(1308)
This course is designed as a college prep course in the fundamentals of theory. Previous musical experience, preferably piano, is required. It may be taken only with the consent of the instructor and advisor. Independent study only.

Music Theory II **Gr. 9-12** **1/4 credit**
(2309)
This course is a continuation of Music Theory I. It may be taken only with consent of the instructor. Independent study only.

Varsity Band **Gr. 9-10** **1/2 credit**
(1302 & 2317)
This band meets every other day. All students receive individual or small group lessons once every other cycle. This course is designed to prepare students for Concert Band by introducing them to more serious works for band at their level, and diversifying their talents. Pop music, soundtracks, and rock are also performed. Students in this band also perform in the Pep Band and may participate in solo/ensemble contests and the high school Jazz Band. Performances are outside of school.

Varsity Choir **Gr. 9-12** **1/2 credit**
(1318 & 2318)
Do you sing in the car, in your room, or even in the shower? Do you want to sound better and better each day? If the answers were yes, then Varsity Choir is for you! This course is designed to provide an entry-level understanding of choral music. Beginning levels of healthy vocal technique, sight-reading, vocal independence, and music theory are taught and utilized. This class offers a varied repertoire of music with an emphasis on musical literacy. In addition to in-class rehearsals, a set number of voice lessons are required per quarter. Varsity Choir performs approximately three times per year. Come join the choir family!

Varsity Orchestra **Gr. 9-12** **1/2 credit**
(1316 & 2316)
Orchestra is a great class to explore different styles of music including classical, pop/rock, and soundtracks. In addition to our daily ensemble practice, music theory, music history, and a wide range of composers and performers are also discussed. All students will receive individual lessons throughout each semester. This ensemble performs two concerts with the opportunity to play at Mass and other events. Varsity members also have the choice to partake in solo & ensemble contests. This course is offered every other day.

Concert Band **Gr. 10-12** **1 credit**
(1306 & 2307)
(Every other day course numbers: 1312 & 2313)
All students are graded on a contract system, in which they must choose to attend two musical groups or experiences outside of class. This course is designed to continue developing and diversifying their talents to a high level by studying and/or performing major works of music in various styles including pop, soundtracks, rock, and multicultural music. Students also perform in the Pep Band and large group contests. Students may participate in jazz and solo/ensemble contests. Performances are outside of school. Students may be required to audition for this group depending on the instrument they play and the needs of the group for proper balance and instrumentation. This is especially true for percussionists and any students wishing to join band after not playing for a year or more.

Concert Choir **Gr. 10-12** **1 credit**
(1304 & 2305)
(Every other day course numbers: 1314 & 2315)
An audition is required before registration.
This course offers a wide variety of musical activities and performances. Concert Choir bi-annually performs at large group contests and tours (we alternate these performances each year). Understanding and utilizing healthy vocal technique, music theory, and sight-reading are an integral part of this class. This course is designed to provide an understanding and appreciation of choral literature of all types. In addition to in-class rehearsals, a set number of sectionals and voice lessons are required per quarter. Students in this choir may broaden their experience by participating in several out-of-school activities. Concert Choir performs approximately 6 times per year.
See instructor for audition information.

History of Rock and Roll (2302) **Gr. 10-12** **1/2 credit**
In this course, students will learn about and study the origin and history of rock music, as well as other genres as they evolve throughout history. Students will not only be listening to and analyzing musical forms and songwriting, but will also look at the impact that music has had on our nation culturally, politically, etc. This class will focus on moments, times, and eras of historical importance and their influence on music and vice versa.

Students taking two of these music courses: Concert Band and Concert Choir receive 1/2 credit per course for the year. If students are taking only Concert Band, Varsity Orchestra or Concert Choir, it is required to take a full year everyday. Any exceptions to this must have prior approval by the director.

COURSES BY SUBJECT - PHY. ED/HEALTH AND SCIENCE

Physical Education and Health

REQUIREMENTS: Physical Education class requirements include tennis shoes, socks, t-shirt, shorts, and/or sweats and towel.

REQUIRED - 1 1/2 credits

- Gr. 9 Health - Personal Wellness
- Gr. 9-10 Physical Education I
- Gr. 10-12 Choose 1/2 credit from electives (Physical Education II, Strength Training I, Strength Training II and Lifetime Fitness meet this requirement)

ELECTIVES

- Gr. 10-12 Lifetime Fitness
- Gr. 10-12 Physical Education II
- Gr. 10-12 Strength Training I
- Gr. 10-12 Strength Training II
- Gr. 11-12 Advanced Health
- Gr. 12 Health Career Exploration Experience Program

Health - Personal Wellness (2334) Gr. 9 1/2 credit

Introductory course dealing with health from a mental, physical, and social aspect. Major units include mental health, chronic disorders, drug education, growth and reproduction, basic first aid and personal health.

Physical Education I (1327) Gr. 9-10 1/2 credit

This course involves team and individual games with co-ed participation in as many activities as possible. Students enjoy building skills, health, and knowledge about the activities. This course is taken during the first semester.

Lifetime Fitness (2332) Gr. 10-12 1/2 credit

This elective class offers a variety of sport-related and lifelong recreational activities. Try archery, volleyball, soccer, ultimate frisbee, badminton, pickleball, golf and much more. Learn proper techniques and exercise principles such as FITT. Students will assess their current levels of fitness and set goals to stay physically fit for a lifetime. Students share their knowledge by putting on a Fitness Fair for a local elementary school.

Physical Education II (1328 or 2328) Gr. 10-12 1/2 credit

This course is designed to provide the foundation essential for a life of healthful living. This course is taken during the second semester.

Strength Training I (1335 or 2335) Gr. 10-12 1/2 credit

This class is for students with little to no experience. Emphasis will be on proper technique, muscular system, safety, nutrition, and weight room etiquette. Guided workouts in the beginning of the semester will be followed by developing a personalized workout for each student.

Strength Training II (2340) Gr. 10-12 1/2 credit

This class is for students with experience in the weight room and who have teacher approval. Self-guided workout routines will be the core of the class. Technique, muscular system, safety, nutrition, and etiquette will be emphasized through student research presentations.

Prerequisite: Completion of Strength Training I

Advanced Health (1336 or 2336) Gr. 11-12 1/2 credit

This elective course in health offers the opportunity for those interested in the health field to become actively involved in the health profession. Units to be covered include: cardiovascular disease, American Heart Association Healthcare C.P.R. certification and training, advanced first aid, sports medicine, as well as exposure to a number of health care careers.

Health Career Exploration Experience Program (2329) Gr. 12 1 credit

This course provides students with an opportunity to gain experience in the health care field through direct partnerships with the health care community. Students will receive exposure to different health-care occupations, explore health care settings, complete 10 hours of community service in a long term care facility (counts toward 70 hour school requirement), and gain knowledge through the BLS Provider CPR certification and Heartsaver First Aid certification. Potential college credit for Medical Terminology available.

This is a 2 period elective class that will take place second semester. 2 periods must be allotted to accommodate the time needed for healthcare professionals to speak to the class weekly and to allow for the students to complete an exploration experience in a health care related setting. The exploration experience must take place during the regular class time or during the students own time after school.

Applicants need to apply to get into the class. If accepted into the class, the applicant will also need to interview with the health care setting that they have a desire to do an exploration experience in. Mantoux test and flu shot required prior to exploration experience.

Science

REQUIRED - 3 credits

- Gr. 9 Earth and Space Science
- Gr. 10 Biology or AP Biology (Students can take Chemistry in Gr. 10, but then must take AP Biology in Gr. 11)
- Gr. 10-12 Students must also take one credit in a chemistry or physics class.

ELECTIVES

- Gr. 9-10 Wildlife Biology
- Gr. 10-12 Chemistry
- Gr. 11-12 AP Biology
- Gr. 11-12 AP Physics I
- Gr. 11-12 Astronomy with Applied Physics
- Gr. 11-12 CIS Chemistry
- Gr. 11-12 CIS Human Biology
- Gr. 11-12 Environmental Science with Applied Chemistry
- Gr. 11-12 Geology of Minnesota
- Gr. 11-12 Human Anatomy and Physiology
- Gr. 11-12 Meteorology
- Gr. 12 AP Physics II
- Gr. 12 Physics

Earth and Space Science (1400 & 2401) Gr. 9 1 credit

Earth and Space Science is the search for knowledge about the natural world. It is broken into three main topics; one, Geology, provides students with the opportunity to learn about rocks, minerals, and the changing of the Earth's landscape; two, Meteorology, allows students to develop their understanding of the atmosphere and the weather; and three, Astronomy, which allows students to learn about the solar system, stellar evolution, and galaxies. Laboratory work, the study of models, and exploring different natural phenomena will be an integral part of this class.

COURSES BY SUBJECT - SCIENCE

Wildlife Biology Gr. 9-10 1/2 credit

(2417)
Focusing on North American wildlife, this second semester course covers topics such as species identification, habitat, conservation, migration and dispersal, the role of hunting on populations, and contemporary problems associated with human activities.

AP Biology & AP Lab Gr. 10-12 1 1/2 credit

(Class: 1404 & 2405)

(Lab: 1399 & 2399)
AP Biology is an introductory college-level biology course for motivated students. Students explore all pertinent material from Biology I, and expand their understanding of evolution, cellular functions, cell communication, genetics, and ecology. Students engage in several multiple-day lab investigations and data analysis. Students complete the national AP Biology exam at the end of the year for the opportunity to receive college credit.

Prerequisite: A minimum of a B+ in Earth Science. Math grades reviewed by instructor. A student can take Biology in grade 10 and still take AP Biology in grades 11-12

Course fee: \$100.00

Biology I Gr. 10 1 credit

(1402 & 2403)
Biology I incorporates laboratory activities to discover the world of living organisms, their interactions with each other, and their nonliving environment. This course covers the basic concepts of biology including the cell, genetics, evolution, microorganisms, plants, animals, and ecology.

Chemistry Gr. 10-12 1 credit

(1414 & 2415)
Chemistry is the study of the properties of matter and how it reacts. This course is recommended for anyone who is planning on attending a 4 year or technical college. This course is highly recommended to any student who is planning on going on to any science or technical field. Chemistry is both qualitative and quantitative where students investigate the properties and laws of matter in the laboratory and classroom.

This course fulfills the Chemistry/Physics requirement for students to graduate. Students who complete this course their Sophomore or Junior year will not be eligible for CIS Chemistry in following years due to the similarity of content.

Prerequisite: Intermediate Algebra

Grade Level: 10 - 12 *10th graders minimum requirement of B in Intermediate Algebra and Earth Science

AP Physics I Gr. 11-12 1 credit

(1440 & 2440)
AP Physics I is a year-long algebra-based, introductory college-level physics course. It is equivalent to a first-semester college course in algebra-based physics. Students cultivate their understanding of physics through classroom study and hands-on inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion. Students have the opportunity to obtain college credit by doing well on the College Board's Advanced Placement Physics 1 and 2 tests. Different colleges have different policies regarding credit granted for high AP test scores.

Prerequisites: It is recommended to have completed math through College Prep Algebra.

This course fulfills the Chemistry/Physics requirement.

*10 Graders may register if well qualified in math (B+ or higher), with permission from counselors or the instructor, as space allows.

Course Fee: \$100.00

Astronomy with Applied Physics Gr. 11-12 1 credit

(1418 & 2418)
Astronomy with Applied Physics is offered to students who are interested in continuing their education in space science. This course will deal with the understanding and identification of objects seen in the night sky: constellations, planets, stars, moon and its phases, and other deep sky objects. It will apply the theories and methods of physics in studying the evolution of planets, stars, solar systems, galaxies and beyond. Students will have the opportunity to use multiple telescopes during laboratory experiences and evening observations.

This course fulfills the Chemistry/Physics requirement for students to graduate.

CIS Chemistry Gr. 11-12 1 credit

(1428 & 2428)
This course is taught concurrently with Chemistry 160 at Saint Cloud State University. This course will cover topics similar to high school chemistry but with greater detail and expectations, including scientific method, measurements, chemical laws, principles of chemical reactions and chemical calculations. Students will receive four elective science credits from SCSU.

Students who have taken Chemistry 1414/2415 are not eligible for CIS Chemistry due to the similarity of content. This course fulfills the Chemistry/Physics requirement for students to graduate.

Prerequisite: 3.7 cum GPA for grade 11 or 3.5 cum GPA for grade 12 or with approval via ACT score

Course fee: The fee for this course will be determined by the number enrolled in the course.

CIS Human Biology Gr. 11-12 1 credit

(1429 & 2429)
This course is taught concurrently with Biol 103 Human Biology at Saint Cloud State University. This course will cover both the anatomy (structure) and physiology (function) of each of the systems of the human body. The course stresses practical applications of the field and is an excellent course for future providers and patients of healthcare. This course is intended for the serious student interested in delving into the working of the human body- both normal and abnormal. Students will receive three elective science credits from SCSU.

Students who've completed Human Anatomy and Physiology (1409/2409) are not eligible to take CIS Human

Prerequisite: 3.7 cum GPA for grade 11 or 3.5 cum GPA for grade 12 or with approval via ACT score

Course fee: The fee for this course will be determined by the number enrolled in the course.

Environmental Science with Applied Chemistry Gr. 11-12 1 credit

(1416 & 2416)
Environmental awareness is becoming essential in our society. This course provides a way for students to learn about the interactions of people and their environment. Learn how we impact the Earth. Be engaged in a diverse study of our environment. This is a project-based course that takes a critical look at our use of alternative energy, solid waste management, resource depletion, population concerns, land use, air and water issues, and global climate change. Through hands-on activities and field trips, students will learn what opportunities await them in a future that demands engaged, environmentally conscious citizens. This course covers only basic chemistry concepts.

This course meets the chemistry/physics requirement.

Geology of Minnesota Gr. 11-12 1/2 credit

(2419)
Geology of Minnesota is a semester-long class offered to students who are interested in continuing their study of the geologic structures as seen in Minnesota. The topics in the class will include the geologic features along with the geologic story of the state: past and present. Students will get the opportunity to experience geology first hand on three field trips: two single day field trips and one three day camping field trip. (Fee required for the camping trip.) This course is offered every other spring in even years, for example spring of 2024, 2026 etc.

COURSES BY SUBJECT - SCIENCE AND SOCIAL STUDIES

Human Anatomy and Physiology **Gr. 11-12** **1 credit**
(1409 & 2409)

This course will cover both the anatomy (structure) and physiology (function) of each of the systems of the human body. The course stresses practical applications of the field and is an excellent course for future providers and patients of healthcare. This course is intended for the serious student interested in delving into the working of the human body- both normal and abnormal.

Students who complete this course their Junior year will not be eligible for the CIS Human Biology course their senior year due to the similarity of content.

Fee: \$7.00 for gloves

Meteorology **Gr. 11-12** **1/2 credit**
(2413)

Meteorology gives students the opportunity to continue their study of the earth's atmospheric environment. The course will help students have a better understanding of the structure of the atmosphere and how different factors affect the weather, with an emphasis on weather in Saint Cloud, Minnesota. Making current weather observations, collecting weather data, and analyzing the information will be integral parts of this course. This course is offered every other spring in odd years, for example spring of 2023, 2025, etc.

Physics **Gr. 11-12** **1 credit**
(1422 & 2423)

Physics is a course designed for students who have a strong mathematical background and an interest in problem solving and abstract reasoning. This course deals with the basic ideas of energy, matter, force, and time. Other topics covered include: motion, forces and their effects, heat, light, electricity, magnetism, sound, and atomic and nuclear physics. This course is recommended for students considering post-high school or college science courses.

This course fulfills the Chemistry/Physics requirement for students to graduate.

Prerequisite: B average College Prep Algebra or by permission of instructor

AP Physics II **Gr. 12** **1 credit**
(1441 & 2441)

AP Physics 2 is a year-long algebra-based, introductory college-level physics course that builds upon what was learned in AP Physics 1. It is the equivalent to a second-semester college course in algebra-based physics. Students continue to cultivate their understanding of physics through classroom study and hands-on inquiry-based investigations. Topics include fluids, thermodynamics, electrical force & fields, electric circuits, magnetism and electromagnetic induction, geometric and physical optics, and quantum, atomic, & nuclear physics. Students have the opportunity to obtain college credit by doing well on the College Board's Advanced Placement Physics 1 and 2 tests. Different colleges have different policies regarding credit granted for high AP test scores.

Prerequisites: AP Physics 1, and previous completion or current enrollment in precalculus.

Course Fee: \$100.00

Social Studies

In our global society it is fundamentally important to educate students to become the citizens of tomorrow. At Cathedral we have foundations in geography, government, history, as well as several elective subject areas. The Social Studies department is committed to teaching these topics with a Christian perspective and preparing students to be interdependent citizens of the world in the 21st century.

REQUIRED COURSES - 3 credits

- Gr. 9 World Geography or AP Human Geography
 - Gr. 10 Government
 - Gr. 11 United States History
 - Gr. 12 World History
- Seniors must choose an additional 1/2 credit from Gr. 12 electives.
- Gr. 11-12 Students are required to take 1/2 credit in Economics (choose from electives)

ELECTIVE COURSES (If taken in 11th grade, these electives cannot be used to meet the senior year requirement. Seniors are required to register for 1 credit of social studies)

- Gr. 9 What's Trending
- Gr. 11-12 AP Comparative Government & Politics
- Gr. 11-12 AP Macroeconomics
- Gr. 11-12 AP Microeconomics
- Gr. 11-12 Business/Macroeconomics
- Gr. 11-12 Business/Microeconomics
- Gr. 12 AP Psychology
- Gr. 12 Introductory Psychology
- Gr. 12 Law and Government

AP Human Geography **Gr. 9-10** **1 credit**
(1455 & 2455)

AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socio economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Students will take the AP exam in May.

Course fee: \$100.00

What's Trending **Gr. 9** **1/2 credit**
(2453)

This course will examine local, state, national, and international current events. Students will develop an appreciation and understanding of various viewpoints and the implications they have on today's world. This course may include field trips, guest speakers, and presentations.

World Geography **Gr. 9** **1/2 credit**
(1452)

World Geography includes a study of maps and globes, features of the earth, culture regions and global interdependence. We will journey around the world studying the physical and cultural geography of Africa, the Southwest and Central Asia, and East and South Asia. Throughout the semester we will be studying what is happening currently around the world.

Government **Gr. 10** **1/2 credit**
(2450)

Our government influences our lives every day in some way. The government is the people, and as citizens of the United States it is important to understand how the government operates. This course is a study of the institutions of the federal government. It will look at the foundations of our government as well as the setup of the judicial, legislative, and executive branches, and the election process. The student will be able to better relate and recognize the important role of the federal government and understand the scope and complexity of our government.

AP Comparative Government and Politics **Gr. 11-12** **1/2 credit**
(2481)

This course introduces students to fundamental concepts political scientists use to study political processes and outcomes in various countries. The course illustrates the rich diversity of political life, explores institutional alternatives, explains differences in processes and policy outcomes, and emphasizes the importance of global political and economic changes.

COURSES BY SUBJECT - SOCIAL STUDIES AND THEOLOGY

Six countries form the core of the AP Comparative Government & Politics course: the United Kingdom, Russia, China, Iran, Nigeria, and Mexico. Using the six core countries, the course examines both abstract concepts and concrete examples. AP Comparative Government & Politics is offered in the Spring semester, and students will take the AP exam in May.

Course fee: \$100.00

AP Macroeconomics **Gr. 11-12** **1/2 credit**
(2123)

The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, government stabilization policies, economic growth, and international economics. AP Macroeconomics also takes into account timely topics generally covered in college courses.
Directly from <http://apcentral.collegeboard.com/>

Prerequisite: Cumulative GPA of 3.3 or higher.

Course fee: \$100.00

AP Microeconomics **Gr. 11-12** **1/2 credit**
(1123)

The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.
Directly from <http://apcentral.collegeboard.com/>

Prerequisite: Completion of College Prep Algebra and Cumulative GPA of 3.0 or higher or permission from instructor.

Course fee: \$100.00

Business/ **Gr. 11-12** **1/2 credit**
Macroeconomics
(2143)

Macroeconomics will be explored and learned as it relates to a successful business operation. The role of government, banking, taxation, financial incentives and disincentives, competition, global markets and global economy, capitalization, human resources, productivity, sustainability, and growth are among the topics of focus.

Business/ **Gr. 11-12** **1/2 credit**
Microeconomics
(1130)

This course will provide students with some of the skills needed to function financially beyond high school. Students will learn about microeconomics: how the individual affects and is affected by markets, profit, production, and consumerism. In addition students will cover personal financial planning, investments, consumer credit, and taxes.

United States **Gr. 11** **1 credit**
History

(1458 & 2460) Year long course
In the United States History course students will study major themes in American history. These themes include landmark laws and supreme court decisions, early 20th century Native American experience, labor, worker rights and big business, immigration, wars of the 20th century, economic issues in America, social movements and civil rights, foreign policy and domestic events in the last half of the 20th century. Students will discover history through interaction with relevant primary sources. Emphasis during this class is on historical research, critical thinking, and expression of ideas.

World History **Gr. 12** **1/2 credit**
(1471)

This is a survey course in World History. Topics covered include great ancient civilizations and empires, political, social and economic revolutions, and contemporary global challenges. This course focuses only on topics that are not covered in any other required course at Cathedral, with a special emphasis on Asian and African history.

AP Psychology **Gr. 12** **1 credit**
(1474 & 2475)

The purpose of the Advanced Placement course in psychology is to introduce students to the systematic and scientific study of human behavior and mental processes. Students are exposed to psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Units include the biological basis of behavior, psychological disorder and treatment, motivation and emotion, learning, memory and much more. Students will take the AP exam in May. This class meets one period all year long.

Course fee: \$100.00

Introductory **Gr. 12** **1/2 credit**
Psychology
(2476)

This introductory study of psychology allows the student to explore the mystery and phenomena of human behavior. The technologies and practices of medical science in the modern era have provided unprecedented opportunities to explore the intricate processes of the human mind and human behavior. It is the objective of this course to prepare the student to better understand themselves and others.

Law and Government **Gr. 12** **1/2 credit**
(2466)

Local Law & Government will explore the basic elements of society and how people interact with the law and government from a practical standpoint. Students will learn how to be actively engaged citizens in their communities through the skills and knowledge of local, county and state government. Exploration of legal obligations, responsibilities, and citizen rights will allow students to discover how the legal system impacts everyday life.

Theology

- REQUIRED - 3 1/2 credits**
- Gr. 9 Gospels: The Revelation of Jesus Christ in Scripture
 - Gr. 9 Christology: Who is Jesus Christ?
 - Gr. 10 The History of the Catholic Church
 - Gr. 10 Sacraments; Privileged Encounters with Jesus Christ
 - Gr. 11 Ecclesiology: Jesus Christ's Mission Continues in the Church
 - Gr. 11 Discipleship: Life in Jesus Christ
 - Gr. 12 Select from 12th grade electives (1/2 credit)

- ELECTIVES**
- Gr. 12 Campus Ministry Course
 - Gr. 12 World Religions

Gospels: The **Gr. 9** **1/2 credit**
Revelation of Jesus
Christ in Scripture
(1361)

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

COURSES BY SUBJECT - THEOLOGY AND VISIAL ARTS

Christology: Who is Jesus Christ? (2361) **Gr. 9** **1/2 credit**

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, 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 begin to learn who He calls them to be.

Sacraments: Privileged Encounters with Jesus Christ (2362) **Gr. 10** **1/2 credit**

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

The History of the Catholic Church (1364) **Gr. 10** **1/2 credit**

This course provides an overview of the history of the Church from its birth at Pentecost through modern times. Students will engage the story of Catholicism (from its highlights to its disappointments) in a manner challenging them to join in the Church's story through active membership in the Body of Christ.

Ecclesiology: Jesus Christ's Mission Continues in the Church (1365) **Gr. 11** **1/2 credit**

The purpose of this course is to help students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the truth that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

Discipleship: Life in Jesus Christ (2368) **Gr. 11** **1/2 credit**

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

Campus Ministry (1356 or 2356) **Gr. 12** **1/2 credit**

This is a semester-long course designed to build Catholic leadership skills and enhance personal and spiritual awareness. The course provides background information and experiences which empower students to servant leadership. Core content focuses on liturgy, prayer, service, outreach, pastoral care, and leadership. A very high commitment to organization, management, and hands-on experience accompanies the requirement to empower others to share in the ministry.

World Religions (1283 or 2283) **Gr. 12** **1/2 credit**

This course provides an overview of the world's largest and most influential religions, including Hinduism, Buddhism, Sikhism, Judaism, Islam, Bahai, Shinto, Confucianism, and Taoism. Learning how other systems of belief and practice differ from the Catholic Faith, students will honor the Catholic Church's commitment to interreligious dialogue by exploring ways in which important spiritual truths can be found not only among diverse Christian churches but within diverse non-Christian religions.

VISUAL ARTS

ELECTIVES

Gr. 9-12	2D Design
Gr. 9-12	3D Design
Gr. 9-12	Clay I
Gr. 9-12	Yearbook: Publication Production I
Gr. 10-12	Clay II
Gr. 10-12	Drawing Techniques
Gr. 10-12	Glass Fusing
Gr. 10-12	Painting Techniques
Gr. 10-12	Photography I
Gr. 10-12	Photography II
Gr. 10-12	Stained Glass Technique
Gr. 10-12	Yearbook: Publication Production II
Gr. 12	Advanced Art

2D Design (1100) **Gr. 9-12** **1/2 credit**

A formal introduction to the visual elements of art. Students will use a variety of materials such as pencil, charcoal, paint, and printmaking, as well as many other materials. Students will also explore different eras of art history.

Course fee: \$30.00

3D Design (1102 or 2102) **Gr. 9-12** **1/2 credit**

This class focuses on the student creating 3 Dimensional Art works that are aesthetically pleasing from all angles. Students will be able to learn modeling, carving and pouring in this class. The viewer should be able to walk around the finished piece and appreciate it from all perspectives. Students will be working with clay, acrylic paint, plaster and various other materials.

Course fee: \$45.00 covers the materials used in class

Clay I (1106 or 2106) **Gr. 9-12** **1/2 credit**

Students will explore both hand building, wheel throwing, and glazing techniques, and build upon the knowledge they have previously gained in 3D Design. This class will primarily focus on the 3 basic throwing forms of the cylinder, disc, and bell shapes in wheel throwing. Focus will also be looking at furthering surface decorations within the clay.

Prerequisite: 3D Design

Course fee: \$50.00 covers clay and glazes. Students will need to provide an empty 4-5 quart bucket and pottery tools to use at wheel. These tools may be purchased through the school.

Yearbook: Publication Production I (1190) **Gr. 9-12** **1/2 credit**

This course is designed to teach performance-oriented study units involved in creating a yearbook. Topics include audience functions of yearbooks, theme and section development, reporting and writing, headlines, photos and captions, design, graphics, typography, advertising, and money matters. This class involves significant writing and outside-of-class photography work. The Cathedralite yearbook will be produced in this class.

Prerequisite: Permission from a yearbook advisor and recommendation from an English teacher.

COURSES BY SUBJECT - VISUAL ARTS

Clay II Gr. 10-12 1/2 credit (2107)

Students will further explore the potter's wheel, as well as learn how to load and fire a kiln. Students will create their own 14 piece dinnerware set. Time will be spent in learning different glazing techniques.

Prerequisite: A grade of A- or higher in Clay I

Course fee: \$75.00 covers the cost of clay and glaze. The student will need the tools they purchased in Clay I and bring an empty 4-5 quart bucket.

Drawing Techniques Gr. 10-12 1/2 credit (1105)

Students will investigate the discipline of drawing through a variety of assigned tasks and materials. Students will learn to use different types of artist pencils and pastels, while exploring techniques of shading, capturing realism and expression.

Prerequisite: 2D Design

Course fee: \$30.00

Glass Fusing Gr. 10-12 1/2 credit (2111)

Having learned the use of appropriate tools in Stained Glass, students will create 14 glass fused projects in a fusing kiln. Projects will include pendants, holiday ornaments, candle holders, jewelry, platters, vases, coasters, and a variety of creative projects for students to choose from.

Prerequisite: Stained Glass

Course fee: \$85.00 covers the cost for 14 projects to be made. Additional projects can be made but there will be an additional charge for each project over 14.

Painting Techniques Gr. 10-12 1/2 credit (1104)

Students explore painting techniques by utilizing oils, acrylics and watercolors. Special emphasis is given toward understanding of color and expression. The history of painting is also discussed from the Stone Age to the present.

Prerequisite: 2D Design

Course fee: \$75.00 covers brushes, canvas, and a set of paints the student will be able to keep.

Photography I Gr. 10-12 1/2 credit (1114)

Students will explore the history and terminology of photography and learn basic functions of a digital SLR (Single Lens Reflex) camera. The class will focus largely on visual expression, journalism, and Photoshop techniques. Students are required to

provide their own digital SLR camera (digital camera with full manual functions) and a 64 GB flash drive.

Prerequisite: 2D Design or permission from instructor

Photography II Gr. 10-12 1/2 credit (2113)

First quarter of the second semester focuses on studio portraiture and principles of lighting. Students learn to use studio strobe lights and light modifiers and reflectors. Emphasis will be placed on the creative and commercial aspects of studio portrait photography. Retouching and enhancing images in Photoshop will be taught.

Prerequisite: Photography I

Stained Glass Techniques Gr. 10-12 1/2 credit (1108 or 2108)

Students will learn 4 basic glass cuts that will enable them to know how to create any cut of glass. Proper use of soldering irons and materials with an emphasis on safety concerns will also be stressed on a daily basis. 4 projects will be created by each student for the semester.

Prerequisite: 2D Design or 3D Design

Course fee: \$85.00

Yearbook: Publication Production II Gr. 10-12 1/2 credit (2191)

Leadership role in creating the yearbook. This course is offered to people with dedication in working with the yearbook. Intended for Editor, Assistant Editor, and other grade 10-12 students who completed the level I course.

Advanced Art Gr. 12 1/2 credit (1103)

This course is for students wanting to do advanced works of art in the area of their strength. It is treated as a guided study for the highly motivated art student. Students keep a working sketchbook of their ideas to coincide with their artworks. Instructor approval of these sketches and drawings is required. Students in Clay create large scale, ambitious works both wheel-thrown and hand-built. Other areas of concentration include drawing, painting, sculpture, and stained glass. Students create a finished, college level/advanced work during the course.

Prerequisites: Students must have maintained an A average in the area of their strength, and also fill out an application form for the class. The instructor will approve each student before entering the course.

Course fee is based on area of expertise: Painting - \$75.00, Drawing - \$20.00, Clay - \$120.00 and Stained Glass - \$175.00

COURSES BY SUBJECT - WORLD LANGUAGES

World Languages

It has become increasingly important for students in the United States to become competent in a second language in this interdependent world of the 21st century. Students must attempt to join together in order to communicate across linguistic and cultural boundaries. Our goal is to help language students to achieve higher levels of proficiency with an emphasis on performance-based tasks and assessments. Students enrolled in a language will be given the opportunity to take a trip abroad. In order to participate in these trips, permission of instructor is required.

Academic requirements for all language courses: For third and fourth year courses, an average of a B in the previous course.

REQUIRED COURSES - 2 CREDITS

Gr. 9-12 Must complete two credits
(a Level I and Level II of the same language)

ELECTIVE COURSES

Gr. 9-12 American Sign Language I
Gr. 9-12 American Sign Language II
Gr. 10-12 American Sign Language III
Gr. 11-12 American Sign Language IV
Gr. 11-12 Chinese I
Gr. 11-12 Chinese II
Gr. 11-12 Chinese III
Gr. 11-12 Chinese IV/V
Gr. 11-12 Chinese VI
Gr. 11-12 Honors Chinese
Gr. 12 Chinese VII
Gr. 9-12 German I
Gr. 9-12 German II
Gr. 9-12 German III
Gr. 11-12 German IV
Gr. 11-12 Honors German
Gr. 11-12 AP German
Gr. 9-12 Spanish I
Gr. 9-12 Spanish II
Gr. 9-12 Spanish III
Gr. 11-12 College Spanish 102
Gr. 11-12 College Spanish 201/202

American Sign Language I **Gr. 9-12** **1 credit**
(1276 & 2276)

This is a beginning level course in American Sign Language (ASL). It introduces students to the fourth most commonly used language in the U.S.. Students will learn basics of ASL such as grammar, sentence structure, vocabulary, finger spelling, numbers, and begin building conversational skills. Students will be introduced to deaf culture. Students' learning will be enhanced through projects, presentations, skill-building activities and games. ASL fulfills the foreign language requirement for high school graduation plans.

American Sign Language II **Gr. 9-12** **1 credit**
(1277 & 2277)

This course is a continuation of the basic aspects of ASL grammar, vocab, ASL structure, fingerspelling, and numbers. Students will continue to develop conversation/cultural behaviors necessary to hold a beginning level conversation. Student learning will continue to be aided through projects, presentations, skill-building activities, and games. Additional cultural and historical information will be presented to enhance student's awareness and appreciation of the culture of those who use ASL to communicate.

American Sign Language III **Gr. 10-12** **1 credit**
(1278 & 2278)

This course will continue building essential ASL language skills. Special awareness will be spent on integrating classifiers in describing and their importance in the language and how they are used in space. Students will work on developing ASL narrative skills. The class will spend much of the time using the target language.

American Sign Language IV **Gr. 11-12** **1 credit**
(1279 & 2279)

This course will challenge students' use of ASL narrative structures, build conversation skills, and cultivate appreciation

and knowledge of Deaf Culture through study of ASL storytellers/poets, and literature groups. It will have a culminating project using the ASL skills of facial expression, spatial awareness, classifiers, grammar, and appropriate classifier use. Class will spend much of the time using the target language.

Chinese I **Gr. 9-12** **1 credit**
(1240 & 2241)

In Chinese I the emphasis is on oral communication first. Students will be able to understand & participate in conversations and narratives about several topics in Chinese: greetings, self-introductions, and how to ask dates and time. They will be able to talk and write about themselves, their families and their hobbies. They will be able to write more than 200 Chinese characters, which is building a solid foundation for future study. Besides learning the language, they will have many opportunities to learn about Chinese culture and Chinese people, for instance, Chinese Kung fu and Chinese Calligraphy.

Chinese II **Gr. 9-12** **1 credit**
(1242 & 2243)

Chinese II continues to emphasize communication. Students will talk and write about their friends and school life. They will learn how to make appointments and how to shop in Chinese. The topics they are going to learn are various and very practical for daily life. In addition, they will be able to learn how to write a letter in Chinese and they have the chance to make a penpal with a Chinese student. One type of assessment will be written tests which will check their listening and reading comprehension. Students will continue exploring Chinese culture.

Chinese III **Gr. 10-12** **1 credit**
(1244 & 2245)

Chinese 3 builds on the material and skills learned previously. Students hone their reading, writing, speaking and listening skills through task-based learning and interpersonal communicative activities. Students will read and discuss holidays, trips, leisure activities, and talk about past and future events. Students will learn how to plan trips and describe how to get around town. A closer look at cultural differences such as holidays, gifts, food and diets will be included regularly.

Chinese IV/V **Gr. 11-12** **1 credit**
(1244 & 2245)

Chinese IV/V continues to emphasize the reading, speaking, and writing of the Chinese Language. One type of assessment will be written tests which will check their reading and writing comprehension. Last, but not least, students will continue exploring Chinese culture.

Chinese VI **Gr. 11-12** **1 credit**
(1245 & 2246)

Chinese VI will further cultivate students' four basic language skills, with a continued emphasis on the proper and appropriate use of grammar patterns and expressions in genuine language communication, especially in speaking and listening. Students will learn more about Chinese culture and society. By learning HSK4 books, they are able to take the HSK level 4 test (the highest level is HSK level 6). They are fluent in Chinese and can talk about basic topics with native speakers.

Chinese VII **Gr. 11-12** **1 credit**
(1238 & 2238)

Chinese VII continues to emphasize the reading, speaking, listening and writing of the Chinese language. Students will learn more about Chinese culture and society. By learning HSK5 books, they are able to take the HSK level 5 test (the highest level is HSK level 6). They can communicate with a native speaker without difficulty and talk about some social problems with them.

Honors Chinese **Gr. 11-12** **1 credit**
(1230 & 2230)

This course builds upon the skills developed from previous learning, continuing to enrich students' learning of Chinese vocabulary and intermediate level of sentence structures. This course elevates students' understanding of more complex Chinese syntax and grammatical concepts. Students' communicative competence will be further advanced through performing longer dialogues in a variety of interactive activities in real life situations. Upon successful completion of this course,

COURSES BY SUBJECT - WORLD LANGUAGES

students will be able to communicate more in depth in those topics that they learned, such as school life, making friends, shopping, dining and travel. They will have the opportunity to apply the Chinese they already learned and to acquire more advanced phrases to express themselves coherently in a series of sentences. This course also has a focus on connecting students' study of Chinese language with other disciplines such as Math, Geography, Social Study, Computer and Science. Accordingly, students will be able to use the language skill to function in academic and career-related situations. Also, this course will continue to introduce students to explore the Chinese traditions, cultural values and its long history. Upon successful completion of this course, students will be able to communicate more in depth in the following topics: Course Topics • Seeing a Doctor • Dating • Renting an Apartment • Sports • Travel • School Life • Work Study • Dormitory • Internet • Chinese Geography

German I Gr. 9-12 1 credit
(1250 & 2251)

In Level I German, we concentrate on authentic speaking skills in the home and school setting. Level I students will be able to use different greetings and farewells. They will talk about themselves, their age, hobbies/free time activities and favorite school subjects. Students will learn words for everyday objects and daily routines. They will learn about school systems in all the German speaking countries. Culture is incorporated throughout the course.

German II Gr. 9-12 1 credit
(1252 & 2253)

In Level 2 German, we continue to learn basic verbal communication skills. The students learn to talk about time, the weather, families and holidays. They learn about the structure of cities and how to listen to and give directions. Students learn to talk about their preferences in clothing, food, and entertainment. Culture is incorporated throughout the course.

German III Gr. 10-12 1 credit
(1254 & 2255)

Level III German starts by reviewing all the skills learned in Levels I & II, however the vocabulary increases in difficulty. As the year progresses, they encounter interesting places and one of the main topics of the year is travel. They learn to discuss things that have happened in the past in the target language. They will start being able to express their opinions and exchange ideas. Naturally, this involves corresponding new and challenging grammatical structures. Students will be building on learning survival skills, such as talking to a doctor, getting a prescription filled or following instructions for doing the laundry. All college bound students who have completed Levels I and II are highly encouraged to register for Level III.

German IV Gr. 11-12 1 credit
(1256 & 2257)

Level 4 German is a course designed to prepare students for college language study. It is also part of the preparation process for the AP test at the end of Level 5. Students use college textbooks to focus on grammatical accuracy and write formal essays. They also work on reading skills and special cultural units on history, politics and business to increase exposure to issues necessary for interacting in German culture as they use the language in the academic and working world.

Honors German Gr. 11-12 1 credit
(1274 & 2275)

Honors German continues to prepare students to go on studying the language. Reading and discussion of more advanced literature texts are half the focus of the course, along with rigorous grammar review, conversation and composition.

AP German Gr. 11-12 1 credit
(1270 & 2270)

In AP German, we continue to use many authentic and academic resources to prepare the students to take the AP test, as well as use the language as a career skill. Literature, news texts, and other reading are part of the course. Listening texts are part of the course as well. Rigorous grammar review, conversation, and

composition are also a focus of the class. The AP test will be taken at the end of the year. *Instructor permission is required.*

Course fee: \$100.00

Spanish I Gr. 9-12 1 credit
(1260 & 2261)

In Spanish I, students will make connections to their lives and to the practices and perspectives of Spanish-speaking cultures through a study of a variety of topics, including information about yourself and others, the school day, your family, places to visit, activities, modes of transportation, and eating preferences. Throughout the study of these topics, students will focus on the three modes of communication: interpretive, interpersonal, and presentational. By the end of the course, students will be able to converse with other students about the topics listed above, interpret and understand parts of readings and video/audio clips about these topics, and write and present about these topics.

Spanish II Gr. 9-12 1 credit
(1262 & 2263)

Spanish II continues to emphasize communication. Students will talk and write about their vacations, their homes, their health and their entertainment preferences. They will be able to order food in a restaurant. They will also be able to discuss happenings in the past. They will be assessed through oral and written presentations on these topics and tests.

Spanish III Gr. 9-12 1 credit
(1264 & 2265)

This course is designed to build on the students previous knowledge and refine their ability to speak, listen, read and write in Spanish. The class is taught primarily in Spanish to promote oral and listening proficiency. Communication skills through speaking and writing are emphasized and students are expected to use Spanish in class to converse about practical, contemporary situations. Students are also exposed to literature and current events through the use of authentic materials from Spanish-speaking cultures.

College Spanish 102 Gr. 10-12 1 credit
(1258 & 2258)

The objective of this College course is to further develop the students' communicative skills in the Spanish language. We will emphasize listening comprehension, reading comprehension, and the skills to hold a conversation and narrate present, past and future events as well as to express personal opinions. Through the study of current events, students will make connections and comparisons and develop a deeper understanding of the cultures of the Spanish speaking countries. Students will earn three credits through the SMSU College Now program.

The fee for this course is determined by the number of students enrolled in the course.

College Spanish 201/202 Gr. 11-12 1 credit
(1272 & 2272)

The objective of this College course is to increase proficiency in the language skills (listening, reading, speaking, writing, and culture/history) essential to communicative language learning. This is a Spanish intensive course in which the cultivation of intercultural awareness will play a key role among the topics and activities covered by each lesson. Students are expected to provide substantial information in their essays regarding multicultural topics along with a strong development of ideas and supporting details or evidence. Rich use of vocabulary with frequent attempts at elaboration is also expected to succeed in this course. Students will earn three credits per semester through the SMSU College Now program.

The fee for this course is determined by the number of students enrolled in the course.

** Course fees have been listed with the individual course that they pertain to. Any additional field trips that are scheduled will be paid for at the time of the trip.

ADVANCED PLACEMENT/CIS COURSES

Advanced Placement (AP) courses offer exceptional students an academic challenge and the chance to earn college credit. Near the end of the AP course, students take a three-hour exam assessing their knowledge and proficiency in the subject. This exam is designed and graded by the College Board. A score of 3 or above is accepted in all Minnesota state universities; a score of 4 or 5 assures credit in many colleges. The three to five college credits earned per AP course would cost far more than the exam.

Earning an A in an AP course benefits a student's overall grade point average too. A 4.5 grade point value is awarded to recognize the quality of work and dedication.

The following AP classes are available at Cathedral:

- AP Calculus AB
- AP English, Literature and Composition
- AP Biology
- AP Physics I and II
- AP Psychology
- AP Comparative Government
- AP Human Geography
- AP German
- AP Macroeconomics
- AP Microeconomics

Students who register for an AP course will be charged a course fee of \$100.00, which includes the cost of the exam. Should students drop an AP course before the end of the year, a prorated refund of \$50.00 will be issued. Scholarships would be provided where there is financial need.

College in the Schools (CIS) courses are taught at Cathedral by our instructors who partner with instructors at St. Cloud State University or Southwest Minnesota State University.

These are the courses offered:

- CIS Chemistry
- CIS Human Anatomy
- CIS Introduction to Rhetorical and Analytical Writing
- College Spanish 102
- College Spanish 201/202

ACTIVITES AND ATHLETICS

There's something for everyone at Cathedral! With over 95% of our students are involved in at least one sport or club, you will join in the Crusader spirit to have fun with your peers, build a sense of community and comradierie, and develop your interests and abilities.

Cathedral clubs and activities include Art Club, Bowling, Drama/Theatre, German, National Honor Society, Jazz Band, Knowledge Bowl, Math League, Minnesingers, Pep Band, Spanish, Speech, Student Ambassadors, and Student Senate/Council.

*New Clubs such as Anime Club, Service Club and more are being added each year!

Our Athletics departments offer amazing coaches and strong teams that foster teamwork, compassion, skills development, healthy living and a strong body and mind. Many of our teams and athletes compete at State levels and receive high awards.

All athletics and some clubs have an associated fee to participate. Registration takes place online. Scholarships are available if you need assistance.

For more information and to sign up, visit our website at <https://cathedralcrusaders.org> and click on Clubs and Activites under the student life tab, or contact the Activities Office:

Emmett Keenan: 320-257-2130

Julie Murphy: 320-257-2120

NCAA ELIGIBILITY

Any student that is considering playing college sports at a Division I or Division II level should log onto the NCAA website www.eligibilitycenter.org to make sure they meet all the NCAA requirements. Any questions can be directed to the school counselor.