
Cardinal Newman

HIGH SCHOOL



TOUCHING HEARTS, WINNING MINDS

COURSE CATALOG

2025 - 2026

January 29, 2025

Cardinal Newman High School is excited to provide you with the 2025-26 Course Catalog. Here, you will find the course offerings for the next academic year and the planning tools and information needed to complete the course request process.

We invite you to carefully and thoughtfully consider the course offerings with your family before making your requests. This year, the course request time period will begin in early February and last until early March. During this time, school counselors will meet with each student individually to select courses. Clearly defined prerequisites and faculty recommendations aid the course selection process. Counselors will record your requests using our Course Request Form and, upon parental approval, record these courses in Blackbaud for master schedule building. Once classes have been verified, the courses may not be changed unless you go through the proper process with verifications.

Students requesting AP or Honors courses must academically qualify and understand the rigors of the AP curriculum. All AP candidates must read the [AP Requirements](#) and complete the AP Contract, which can be obtained from your school counselor or the AP Coordinator.

We pray that the courses will move you further toward your development of Body, Mind, & Soul.

With Many Blessings,

Nicholas Reynolds - Principal

Dr. Maryanne Berry - Vice Principal of Academics

Mary Euphrat - Director of College Counseling

Tracy Williams - Director of Counseling

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Graduation Requirements

Cardinal Newman offers a curriculum that includes all courses necessary to fulfill the admission requirements of the University of California and California State University systems. Students can earn up to 280 credits to achieve graduation status. Five units of credit are granted for passing each semester class.

Subject	Years/Semesters	CNHS required Credits	UC/CSU required credits
English	4 years/8 semesters	40 credits	40 credits
Human Performance	1 Year/2 semesters	10 credits	
Math	3 Years/6 semesters Algebra & Geometry req	30 credits	30 credits Recommend 40 credits
World Language	2 Years/4 semesters	20 credits	20 credits Recommend 30-40 credits
Social Studies	3 Years/6 semesters (World, US, Gov/Econ)	30 credits	20 credits
Science	2 Years of college prep science (Biological & Physical)	20 credits	20 credits of 1 Biological & 1 Physical Science Recommend 30-40 credits
Theology *Christian Service project completion	4 Years/8 semesters Christian Service project concludes with a presentation and essay in May of Senior year	40 credits	
Visual & Performing Arts	1 year/2 semesters	10 credits	10 credits
Electives	4 years	Up to 80 credits for Graduation	10 or more credits
Students are also required to complete 25 hours of Christian Service each year. This graduation requirement is tracked by our Christian Service Coordinator with MobileServe.			

Cardinal Newman Curricular Options 2025-26

Class	English (4 years required)	Math (3 years required Including Algebra and Geometry)	Social Studies (3 years required)	Science (2 years lab required including Biology, Chemistry or Physics))	World Language (2 years of the same language preferred)	Theology (4 years required: including completion of Christian Service Hours & CBSL project)	Visual & Performing Arts (1 year required)	Human Performance (1 year requires)
Freshman Year	English 9 Accl English 9	Pre Algebra Algebra 1 Geometry Algebra II H	Geography	Ag. Biology Biology	French 1 Spanish IA Span 1 Span 2	Catholicism Intro to Catholicism	Intro to Music Intro to Art Speech & Perf Intro to Maker Mod Band Studio Art 1 Theatre Theatre Production	PE 9 Dance I
Sophomore Year	English 10 English 10 Honors AP Seminar	Algebra 1 Algebra 2 Algebra 2 Honors Trig/Precalc Trig/Precalc Honors	World History World History Honors Model UN	Chemistry Chemistry and Agriscience Honors Chem Physics Engineering	French 1 French 2 Latin 3 or 3H Span IB Span 1 Span 2 Span 2 Accl Span 3 or 3H	Introduction to Sacred Scripture and Church History	Mod Band Guitar Graphic Des Studio Art 1 Yearbook Digital Media Theatre Theatre Production Maker 1	Dance I, II, III, IV, Honors Broadcasting Strength & Conditioning
Junior Year	English 11 AP Language AP Seminar AP Research	Algebra 2 Algebra 2 Honors Trig/Precalc Trig/Precalc Honors Calculus AP Calculus AB AP Statistics Adv. Algebra Sports Statistics	US History AP US History Business Econ Psychology Model UN	Chemistry Chemistry & Agriscience Honors Chem Physics Adv Physics AP Physics 1 Exercise Science AP Biology AP Environ Sci Adv. Ag. Science	French 2 French 3 AP Latin Span 2 Span 2 Accl Span 3 or 3H Span 4 AP Spanish	Christian Morality and Catholic Social Teaching	Mod Band Guitar Graphic Des Studio Art 1 Studio Art 2 Yearbook Hon Yearbook AP Art Digital Media Theatre Theatre Production Maker 1 Maker 2	Dance I, II, III, IV, Honors Broadcasting Sociology of Sport Sports Psychology Strength & Conditioning Sports Manage.
Senior Year	English 12 AP Literature AP Seminar AP Research	Algebra 2 Algebra 2 Honors Trig/Precalc Trig/Precalc Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Adv. Algebra Sports Statistics	<i>2 semesters options:</i> 1- Govt/Econ 2- H Gov/ AP Macro Full Year AP Gov't & Politics Business Econ Psychology Leadership Model UN	Chemistry Chemistry & Agriscience Honors Chem Physics Adv Physics AP Physics 1 Exercise Science AP Biology AP Environ Sci Adv. Ag. Science Business Ag	French 3 French 4 AP French AP Latin Span 3 or 3H Span 4 AP Spanish	Christian Philanthropy and Vocations	Mod Band Guitar Graphic Des Studio Art 1 Studio Art 2 Yearbook Hon Yearbook AP Art Digital Media Theatre Theatre Production Maker 1 Maker 2	Dance I, II, III, IV, Honors Broadcasting Sociology of Sport Sports Psychology Strength & Conditioning Sports Manage.

Course Selection Process

Students will be provided up-to-date information on courses by their Counselor who will visit classes in February to present information and answer questions. Students will have this Course Catalog to review. The counselors will also make a website available that will include short videos describing new classes as well as Honors and AP courses.

After meeting with their counselor, students will make their course preference selections on our Grade Level Course Selection Form. These forms will be due mid-March after time is given to research and learn about future courses and plans. The Counselors will input this information into Blackbaud after verifying with the students and reviewing whether they meet the listed prerequisites.

If a course does not have the minimum number of students needed, it will not be offered, and the students will be moved to their next priority choice.

ACADEMIC SUPPORT CENTER (ASC)

Academic Support Center Objectives:

Cardinal Newman's Academic Support Center supports the mission of the school to educate our students in the wholeness of mind, body, and spirit through the teachings of Jesus Christ as proclaimed by the Catholic Church. Our students learn to apply leadership skills and talents in service to others. We help each student to work to his or her highest potential in the lifelong pursuit of learning and excellence.

Academic Support Center Graduation Requirements:

No graduation requirements are tied to the Academic Support Center. The center's function is to help students meet the requirements of other departments.

Academic Support Center Courses:

Study Skills

Level:	Grade 9	Year	10 credits
UC/CSU Approval:	No		
Prerequisite:	Students are placed by the Counselor, Admissions Committee, and ASC		

Description:

This course is designed to help incoming freshmen students sharpen their study habits in a variety of areas, including listening, speaking, reading, writing, note-taking, studying for tests, critical thinking, time management, memorization techniques, and goal setting. Through the wholeness of body, mind, and spirit, students can develop and strengthen good study habits and learning strategies through various instructional methods. Specific goals and objectives identified in the student's Student Learning Plans will be integrated throughout the course.

Directed Studies

Level:	Grade 10-12	Year	10 credits
UC/CSU Approval:	No		
Prerequisite:	Students are placed by the Counselors and/or ASC.		

Description:

This course is designed to help students reach their potential in all classes with the necessary support from the center. Students may or may not have a Student Learning Plan (SLP) to be in the class. The students without an SLP will be admitted based on the criteria specified and their counselor and/or the ASC's approval. For those with an SLP, the specific goals and objectives identified in the students' SLP will be integrated throughout the course.

Study Hall

Level: **Grade 11-12** **Year** **10 credits**

UC/CSU Approval: No

Prerequisite: Counselor recommendation or enrolled in 3 or more AP/ Honors courses.

ENGLISH DEPARTMENT

English Department Objectives:

Cardinal Newman English courses enrich the spirit, challenge the intellect, and strengthen students' ties with their community. Literature is selected with the purpose of inciting deep and meaningful discussions about what it means to be a fully actualized, good, human being. Students are encouraged to develop empathy by putting themselves in the place of others from different cultures, times, and dimensions. Interpersonal skills are developed through listening closely, imagining others with an open heart, and responding with an open heart.

Cardinal Newman English courses support Saint John Henry's mission to hone students' critical thinking skills in preparation for reaching the highest levels of academic achievement needed to assume leadership roles in their communities. The English Department aspires to this call by offering rigorous and relevant instruction in language, composition, literature, research, presentation, and written, visual, and spoken text analysis.

Students move through a process of reading, reflecting, discussing, and writing to learn how to adopt an academic stance of taking a position and supporting it with evidence and reasoning. As students progress, they work with increasingly complex and sophisticated texts. Student projects become increasingly student-directed over the four years.

English Department Graduation Requirements:

Four years of English courses are required for graduation.

English Department Courses:

English 9

Level:	Grade 9	Year	10 credits
UC/CSU Approval:	Yes, Area B		

Description:

English 9 provides a solid foundation in writing skills as well as an overview of literary analysis. Students will analyze and synthesize literary works, a variety of literary genres and grasp how authors construct works. Correct usage, grammar, sentence structure, intensive paragraph study, and library skills are presented in a developmental sequence to ensure achievement. Formal and informal writing styles and procedures are combined in writing strategies. Students begin learning the documentation process in the Modern Language Association (MLA) style and gain proficiency in the multiple-paragraph essay.

Accelerated English 9

Level:	Grade 9	Year	10 credits
UC/CSU Approval:	Yes, Area B		
Prerequisite:	HTSP scores in reading and language \geq GE 9.0 and an A in English 8		

Description:

Accelerated English 9 is an integrated curriculum with challenging assignments aimed at preparing students for advanced work in the study of literature and language arts. The program introduces students to various literary genres that foster student engagement in literary analysis, critical thinking, and inferential evaluation of a variety of full-length classic and contemporary texts. While critically reading fiction, poetry, drama, literary fiction and nonfiction, and informational texts, students master advanced reading comprehension and literary analysis strategies. The more advanced points of grammar and usage are covered, as students are expected to understand the rules that govern the language. Writing and reading assignments are of great frequency and sophistication, requiring the student to provide in-depth analysis in both written and discussion formats.

English 10

Level:	Grade 10	Year	10 Credits
UC/CSU Approval:	Yes, Area B		
Prerequisite:	Completion of English 9.		

Description:

English 10 introduces students to works in world literature and examines the contributions of influential writers from ancient to modern times. Critical reading and thinking skills, as well as vocabulary study, continue to be emphasized. Students are expected to actively participate in class discussions and read and analyze texts that supplement the classroom curriculum. Instruction in note-taking and paraphrasing from source material, together with renewed instruction in the Modern Language Association (MLA) method of documentation, continues.

Honors English 10

Level:	Grade 10	Year	10 Credits
UC/CSU Approval:	Yes, Area B		
Prerequisite:	A in Accelerated English 9 or an A in Academic English 9		

Description:

Honors English 10 introduces students to works in world literature and examines the contributions of influential writers from ancient to modern times. Writing and reading assignments are of great frequency and sophistication, requiring the student to provide in-depth analysis in writing, discussion, and presentation formats. A research paper is a requirement of this course. Students are expected to actively participate in class discussions and read and analyze several texts. This course is designed for motivated, high-achieving students and is intended as an introductory course to AP English Language and AP English Literature.

AP Seminar

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area B		

Description:

AP Seminar is the first of the two courses that make up the AP Capstone program. In this yearlong course, students develop and strengthen their analytical and inquiry skills, exploring two to four relevant issues chosen by the student in collaboration with the teacher. Using an inquiry framework, students practice reading and analyzing articles, research studies, literary, foundational, and philosophical texts, listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. All students are required to take the AP test in May. This course meets the UC/CSU English (b) course requirement.

English 11

Level:	Grade 11	Year	10 Credits
UC/CSU Approval:	Yes, Area B		
Prerequisite:	Completion of English 10 or Honors English 10		

Description:

This course includes the study of the major themes in American literature through the study of canonical and contemporary literature. Students will read and respond to short stories, essays, novels, memoirs, and poetry. The class focuses on improving students' analytical and personal writing. The writing process is continually emphasized, as well as the final product. Students will respond to the class texts in various written genres, routinely read their writing, and listen to others. Students will study literary terms and vocabulary. This course meets the UC/CSU English (b) course requirement.

AP English Language & Composition

Level:	Grade 11	Year	10 Credits
UC/CSU Approval:	Yes, Area B		
Prerequisites:	Grade of an A- in Honors 10 or an A in Academic English 10.		

Description:

This course includes a detailed look at the art of writing and rhetoric with a strong emphasis on non-fiction texts and American literature. The curricular focus is on building critical reading skills along with learning the processes of writing in a variety of forms--narrative, expository, analytic, research, reflective, and argumentative. Students will be expected to respond to a variety of texts by synthesizing source material and writing analytical essays with the goal of becoming a critical reader of all texts and writing effectively and confidently in college and beyond. Students should expect 1-3 hours of homework per class. All students are required to take the AP test in May. This course meets the UC/CSU English (b) course requirement.

English 12

Level:	Grade 12	Year	10 Credits
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UC/CSU Approval:	Yes, Area B
Prerequisite:	English 11 or equivalent

Description:

This course includes the study of world authors through fiction, nonfiction, memoir poetry,, and drama with both semesters devoted to a critical study of the relationship between literature and society. Emphasizing the personal themes of self-discovery, growth, and responsibility through a series of narrative writings-including college essay-and the exploration of oral traditions. Students hone skills in analytical reading and writing, discussing, and researching. The school year culminates in the students' interdisciplinary CBSL Project presentations in the spring. This course meets the UC/CSU English (b) course requirement.

AP English Literature & Composition

Level:	Grade 12	Year	10 Credits
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UC/CSU Approval:	Yes, Area B
Prerequisite:	Grade of an A- in AP Language or an A in English 11.

Description:

Senior AP English is a college-level seminar with three major goals: to study and hone the writing process, to analyze literary works of international and historical merit, and to prepare for the National AP English Exam in May. Students will learn to critique their own writing and that of other students through professional assessment, self-evaluation, and peer response. The class requires a willingness to critically investigate the philosophical, psychological, socio-cultural, and aesthetic qualities of works of literature. All students are required to take the AP test in May. This course meets the UC/CSU English (b) course requirement.

AP Research

Level:	Grade 11-12	Year	10 Credits
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UC/CSU Approval:	Yes, Area G
Prerequisite:	Students must pass the AP Capstone Seminar Digital Portfolio and Exam

Description:

AP Research is the second course in the AP Capstone™ program. AP Seminar is a prerequisite for AP Research. If you earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of your choosing, you will receive the AP Capstone Diploma™. This signifies outstanding academic achievement and attainment of college-level academic and research skills. AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. The goal is to tie the research to the student's interests. All students are required to take the AP test in May. This course meets the UC/CSU College preparatory Elective (g) requirement.

HUMAN PERFORMANCE DEPARTMENT

Human Performance Department Objectives:

The Human Performance Department is dedicated to the development of the whole student: physical, mental, emotional, and spiritual. Programs within the department are interdisciplinary by nature and allow students to explore their sports and physical activity experience from a holistic perspective. Human Performance classes foster a positive learning environment that includes an appreciation of all cultures and respect for all persons. Coursework is designed to promote critical thinking, creativity, leadership, and academic honesty.

Human Performance Department Graduation Requirements:

10 credits or 2 semesters. Participation in team sports can earn up to 10 credits. 2.5 credits per season of sport. Students can also apply for independent study beyond the normal class schedule.

Human Performance Department Courses:

PE 9

Level:	Grade 9	Year	10 Credits
UC/CSU Approval:	No		

Description:

This course will cover a variety of aspects of human movement, including physical fitness and team and individual sports. Classes are designed so students can practice and develop skills in activities that will help them maintain fitness throughout their lives. Students will also be introduced to material from a variety of classes in our Human Performance Department, including Weight Training, Dance, Sport Psychology, Sociology of Sport and Exercise Physiology & Sports Medicine, and Health.

Dance I

Level:	Grade 9-12	Year	10 Credits
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UC/CSU Approval: Yes, Area F

Description: *No previous experience is required to take Dance I.*

Students will build tools for personal expression, effective communication, thoughtful collaboration and confidence in individual abilities. Students will set goals, develop a dance vocabulary, learn dance history, and participate in fundamental forms of ballet, jazz, modern, hip hop, contemporary, West African, and Latin dance forms, along with dance composition/choreography. Students will be guided through technical and creative exercises on how to interpret music, be expressive, execute various styles of movement, self-critique, collaborate, and build choreographic skills. Students will also have the opportunity to learn basic pilates and effective stretches to increase strength, balance, and flexibility. Students will improve fitness levels and discover personal achievement using life skills such as communication, problem solving, perseverance, cooperation, patience, leadership and a positive attitude. Most importantly, students will be able to participate in and help create a comfortable, supportive, and inclusive learning environment. Dance I students will participate in one full dance production per semester. This includes one dress/technical rehearsal and two performances at the theater as the final exam.

Costume/Performance Fee: The dance teacher will be ordering multiple dance costumes for each student, which will also cover tights, shoes, supplies, props & accessories for each dance. There will be a one-time fee of \$250 per student to cover all the school year's costs. Fees will be charged to student's billing accounts at the beginning of the fall semester. Please contact the finance office for any questions.

Dance II: Advanced Beginner / Intermediate

Level: Grade 10-12 Year 10 Credits

UC/CSU Approval: Yes, Area F

Prerequisite: Dance I or previous dance experience (Contact Mrs. Thompson to schedule a placement audition to skip level I)

Description:

Students will continue to build tools for personal expression, effective communication, thoughtful collaboration, and confidence in individual abilities. Students will continue to expand their dance vocabulary and participate in advanced beginning/intermediate levels of ballet, jazz, modern, hip hop, contemporary, pilates, and effective stretching techniques. Students will be guided through more challenging, technical, and creative exercises, music interpretation, and use of expression. Students will focus on enhancing performance techniques and creating strong choreographic skills through improvisation, analyzing, and critiquing personal and professional work. Students are given more opportunities to choreograph, create ideas for the shows, design costumes, edit music, and perform in extra school performances such as Preview Day and the Arts Alive Showcase. Students continue to work as a team, sharing positive feedback and applying life skills through leadership, problem solving, perseverance, patience, and cooperation. Students create a supportive, creative, and inclusive learning environment. Students participate and collaborate in two full productions per year, implementing theater etiquette and an appreciation for the performing arts.

Costume/Performance Fee: The dance teacher will be ordering multiple dance costumes for each student, which will also cover tights, shoes, supplies, props & accessories for each dance. There will

be a one-time fee of \$250 per student to cover all the school year's costs. Fees will be charged to student's billing accounts at the beginning of the fall semester. Please contact the finance office for any questions.

Dance III: Intermediate

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Dance II or previous dance experience (Contact Mrs. Thompson to schedule a placement audition to skip level II)

Description:

Dance III is designed for students with previous dance experience in Dance II or by audition. The objective of this course is to continue building tools for increasing knowledge, experience, technicality, and appreciation of dance. Students will continue to set personal goals, develop expression, engage in effective communication and thoughtful collaboration, and build confidence in individual abilities through various dance forms and choreography. This course is an intermediate dance class that exposes students to multiple dance forms to help broaden dance vocabulary and dance repertoire. Students will demonstrate their choreographic skills by creating their own works through choreographic projects and perform in several performances and events. Students will reflect, analyze, and critique their own creative learning process.

Costume/Performance Fee: The dance teacher will be ordering multiple dance costumes for each student, which will also cover tights, shoes, supplies, props & accessories for each dance. There will be a one-time fee of \$250 per student to cover all the school year's costs. Fees will be charged to student's billing accounts at the beginning of the fall semester. Please contact the finance office for any questions.

Dance IV: Advanced Intermediate/Advanced

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Dance III or previous dance experience (Contact Mrs. Thompson to schedule a placement audition to skip level III).

Description:

Dance IV is designed for students with previous dance experience in Dance III or by audition. Students are encouraged to dance in an after school program. The objective of this course is for students to expand their dance vocabulary and repertoire in ballet, jazz, modern and hip hop at an advanced intermediate/advanced level. There will be more focus on refining and polishing technical skills while continuing to build confidence in performance and choreographic skills. Students will develop skills to be able to perform a solo audition for Dance Honors by applying knowledge of proper body alignment/placement, core strength, extended body lines, musicality and expression. Students will be able to demonstrate knowledge of space-time-energy, constructing their own piece of choreography, collaborating ideas in small group projects and teaching what they create to their peers with clarity and creativity. Students will have the opportunity to develop their performance skills by performing in several performances and events. Students will reflect, analyze, and critique their own work as well as professional work at an intermediate/advanced level.

Costume/Performance Fee: The dance teacher will be ordering multiple dance costumes for each student, which will also cover tights, shoes, supplies, props & accessories for each dance. There will be a one-time fee of \$250 per student to cover all the school year's costs. Fees will be charged to student's billing accounts at the beginning of the fall semester. Please contact the finance office for any questions.

Dance Honors

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Dance III or previous dance experience (Contact Mrs. Thompson to schedule a placement audition to skip level III).

Description:

Dance Honors is designed for serious dance students at an advanced level with strong performance experience and technique in ballet, jazz, modern and hip hop. Student's pathway is to dance in college and beyond. Highly recommended to be taking dance lessons in an after school program. Need to be quick to pick up/create choreography and apply learned skills at a faster pace. Students are required to audition with a solo choreographed by themselves and potentially be able to perform a solo in a production. Students will demonstrate the ability to translate emotional and dramatic content into their own personal work. Students will show their ability to use perceptual and movement skills at an advanced level in order to perform, use expression, and communicate meaning through dance and teach their own choreography to peers. The objective of this course is to continue building tools for increasing knowledge, technicality, and appreciation of dance at an advanced level. Students will continue to set personal goals, engage in effective communication and thoughtful collaboration, and develop a greater understanding of dance aesthetics and the value of creative and critical thinking. Students will have the opportunity to participate in outreach/community performances, establish a buddy system with other high school dance programs, engage in master classes & workshops, and to observe/critique professional work.

Costume/Performance Fee: The dance teacher will be ordering multiple dance costumes for each student, which will also cover tights, shoes, supplies, props & accessories for each dance. There will be a one-time fee of \$250 per student to cover all the school year's costs. Fees will be charged to student's billing accounts at the beginning of the fall semester. Please contact the finance office for any questions.

Strength and Conditioning

Level: **Grade 10-12** **Semester** **5 Credits**

UC/CSU Approval: No

Prerequisite: Successful completion of PE 9 or Dance 1

Description:

The Strength and Conditioning class will be based on the CN Human Performance Curriculum with emphasis on developing Lifetime Fitness and specifically developing and improving health-related and skill related performance. By the end of the course the students will be able to demonstrate a satisfactory level of knowledge, technique and competency in the following areas: General knowledge of Basic Anatomy, Physiology and Biomechanics, Nutrition, Calisthenics/Body Resistance Exercises, Running/Sprinting, Resistance Bands, Weight Training, Circuit Training, Plyometrics, Aerobics, Rowing, Jump Rope, Stretching/Yoga, Medicine Ball Training. By the end of the course, students will be able to demonstrate a satisfactory level of knowledge, technique, and competency in the basic Weight Training Exercises. Students may also learn more intermediate/advanced techniques in Powerlifting (Squat/Bench/Deadlift) and Olympic Lifting (Snatch/Clean/Jerk).

Exercise Physiology and Sports Medicine

Level: **Grade 11-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area D

Prerequisite: C or better in Biology and completion or concurrent enrollment in Algebra II

Description:

This year-long course will introduce students to the anatomy and physiology of the human body and how the body's systems interact with each other through exercise. It begins with understanding the general structures of the body's systems, from which function can then be analyzed. Topics from Sports Medicine will also be introduced and integrated into the curriculum. This course meets the UC/CSU Biology/Life Sciences Laboratory (d) course requirement.

Sociology of Sport

Level: **Grade 11-12** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

Sociology of Sport examines selected topics within the sociology and history of sport. Particular emphasis will be given to issues related to the potential of sport to benefit society and its potential to reinforce existing social problems. The course offers an analysis of sport as a social institution, the interrelations between sport and societal subsystems, and a consideration of the attitudes, values, and behaviors associated with sport. Analysis of contemporary problems associated with the sport will be made, with ties made to their historical origins; such problems include race relations, the traditional and emergent role of women, aggression, violence, and political and economic concerns. Students will be encouraged to reflect on their own experiences within sport and, as a culminating project, explore an area of special interest within the history and sociology of

sport. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

Sport Psychology

Level: **Grade 11-12** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

This course includes the key psychological aspects of athletic success as well as investigating the universality of those precepts in achieving success in other fields. It provides a broad overview of the major topics in the field and explores various psychological theories and research related to sport and exercise. This course will guide high school students and student-athletes in creating a balance of academics, family, and sports and in building a strong knowledge base for choosing a potential college or career focus in the field. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

Broadcasting

Level: **Grade 10-12** **Semester** **2.5 Credits**

UC/CSU: Pending

Prerequisite: Completion of PE 9 and possible interview

Description:

This independent study course is a professionally oriented media course intended for students wanting to learn Broadcast Journalism. On-the-air experience, including announcing skills and production techniques, will be expected of students and leadership with other Broadcast Journalism students. Evaluation is based on daily oral/written assignments, quality of story segments, and attention to process and deadlines. Students may be required to attend after school noteworthy events.

Theatre Production

Level: **Grades 9-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Description:

See full description in Visual and Performing Arts (VPA) page 48.

Introduction to Coaching and Sports Management

Level: **Grades 11, 12** **Year** **10 Credits**

UC/CSU Approval: Pending, Area G

Description:

This course introduces students to the coaching profession and athletics management. Emphasis will be placed on coaching within the elementary and junior high levels, with consideration for other levels such as high school and college sports programs. Our primary goal of the course is to enhance students' knowledge and understanding of techniques, concepts, and styles within the coaching profession, as well as equip 'in -house' athletics programs with educated, trained sports managers. Students will explore coach and athlete interaction, coaching philosophies, coaching techniques, tactical analysis for multiple sports, investigate opportunities to apply the knowledge expressed in the course, and use management opportunities to support current coaches on campus. All students will read and use the information in the book, "They Call Me Coach" by John Wooden.

Human Performance Independent Study

Level: **Grades 9-12** **Semester** **5 Credits**

UC/CSU Approval: No

Description:

Human Performance Independent Study allows students to explore a topic of interest under the direct supervision of a faculty advisor. The course may include applied work (i.e.-an internship, coaching a youth sports team, etc.), carrying out an independent research project, participating in sport/ physical activity outside the Cardinal Newman community or other appropriate activities. Enrollment in this course is based on instructor and counselor approval.

MATH DEPARTMENT

Math Department Objectives:

The Cardinal Newman Math Department believes all students can learn rigorous mathematics well. Proficiency in mathematics is achieved through persistence, effort, and practice on the part of the student, rigorous and effective instruction on the part of the teacher, and support and encouragement on the part of both teachers and parents.

It is the intent of the Cardinal Newman Mathematics Department to provide a balanced, comprehensive mathematics program where students have an opportunity to expand upon the concepts learned in elementary school, become proficient in basic computational and procedural skills, and become adept at problem-solving, drawing upon grade-level appropriate skills and conceptual understanding. As students progress through the Cardinal Newman mathematics program, they will solve problems that will require increasingly more advanced knowledge and understanding of mathematics, will be increasingly complex, and will require increased use of inductive and deductive reasoning and proof. In addition, problems will increasingly require students to make connections among mathematical ideas.

Math Department Graduation Requirements:

Three years of Math courses, including Geometry and Algebra I, are required for graduation. Four Years is recommended by UC.

Math Department Courses:

Pre-Algebra

Level:	Grade 9	Year	10 Credits
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UC/CSU Approval:	Yes, Area G
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Description:

This course is designed to prepare students for Algebra I. Pre-Algebra is an introduction to basic algebra concepts and a review of arithmetic algorithms. The course lays the groundwork for future math courses. The course helps students develop good mathematical study skills and learning strategies.

Algebra I

Level:	Grade 9	Year	10 Credits
UC/CSU Approval:	Yes, Area C		

Description:

The course presents the language and symbolism of Algebra and the properties of the real number system used in solving equations and inequalities. Students are introduced to functions, graphing, and problem-solving involving systems of equations. Operations with polynomials, rational expressions, and radicals are explored with an emphasis on problem-solving techniques. This course meets the UC/CSU Mathematics (c) course requirement.

Geometry

Level:	Grade 10	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Completion of Algebra I or pass CNHS Algebra proficiency test		

Description:

Deductive and inductive reasoning is developed using concepts of parallel lines, triangle relationships, and other geometric figures. Concepts of space geometry are integrated with plane geometry throughout the course. Algebraic skills are reviewed and strengthened through application in solving problems. The course includes right triangle trigonometry, constructions, loci, coordinate geometry, and transformations. This course meets the UC/CSU Mathematics (c) course requirement.

Algebra II

Level:	Grade 10-11	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Successful completion of Algebra I and Geometry		

Description:

This course includes graphing, solving, and applying systems of inequalities, linear equations, and quadratic and polynomial functions, powers, roots, radicals, exponential and logarithmic functions, quadratic relations and conic sections, the complex number system, polynomials of higher-order, logarithms, and other selected topics. Multiple problem-solving techniques are explored. This course meets the UC/CSU Mathematics (c) course requirement.

Algebra II Honors

Level:	Grade 9, 10, 11	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Grade 9: Completed Algebra I and Geometry prior to 9th grade and passed CNHS Algebra I and Geometry proficiency test. Grade 10 - 11: Grade of A- or better in their current math course and 3.7 overall gpa in all math courses.		

Description:

This course includes the real number system, equations and inequalities of the first and second degree, functions, the complex number system, conic sections, polynomials of higher order, logarithms, and other selected topics. The course will emphasize problem-solving techniques and more challenging word problems will be done on each topic. This course meets the UC/CSU Mathematics (c) course requirement.

Advanced Algebra (3rd Year of Algebra)

Level:	Grade 11-12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Successful completion of Algebra I and Geometry		

Description:

This course covers equations, quadratic functions, polynomial functions, exponential and logarithmic functions, sequences and series, probability and statistics, periodic functions and trigonometry. The course also integrates common core aligned performance tasks which takes the student alone (or in a group depending on the task) about an hour to solve. The performance task requires the students to think deeper and make more connections with the real world. The students will use “tools” from other units or concepts that they have learned in the past and connect them to the “new” idea. The course includes standardized test prep questions sporadically administered in five minute segments to prepare students for standardized tests during and after high school.

Sports Analytics (Statistics)

Level:	Grade 11-12	Year	10 Credits
UC/CSU Approval:	Pending, Area C or Area G		
Prerequisite:	Completion of Algebra 2 grade B- or higher		

Description:

This course teaches students how to use four-steps of the statistical process in the context of sports: ask questions, collect data, analyze data, and make conclusions. Each chapter will begin with a sports-related statistical question (e.g. Is there a home field advantage in the NFL?) and then students will learn how to collect appropriate data, how to analyze the data, and how to make appropriate conclusions. Although the context of the examples and exercises will be sports related, the primary focus of the class will be to teach students basic principles of statistical reasoning. Major statistical topics include: making appropriate graphical displays for univariate and bivariate data, both categorical and quantitative; calculating and interpreting summary statistics for univariate and bivariate data, both categorical and quantitative; least squares regression; the concept of independence; using simulations to estimate probability distributions; probability distributions,

including the binomial and normal distributions; using probability distributions and expected value to evaluate strategy in sports; the logic of hypothesis testing, including stating hypotheses, calculating and interpreting p-values, drawing conclusions, and Type I and Type II errors; estimating parameters with confidence intervals; and proper methods of data collection, including sampling and experiments. Use of technology, including statistical software, online applets, and the graphing calculator will be prominent in the course. Students will also have to complete investigations which require all four steps of the statistical process to be completed using data collected online or by the students themselves.

Trigonometry - PreCalculus

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Grade of B or better in Algebra II and Geometry.		

Description:

This course is a study of pre-calculus mathematics. The first semester stresses the language of functions, emphasizing circular and trigonometric functions. The second half of the course covers properties of algebraic, exponential, and logarithmic functions, conic sections, and an introduction to the concept of limits through sequences and series. This course meets the UC/CSU Mathematics (c) course requirement.

Trigonometry - PreCalculus Honors

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Grade of A- or better in Geometry and Algebra II (B+ in Algebra II Honors)		

Description:

This course is an in-depth preparation for Calculus. It concentrates on elementary functions, especially trigonometric functions, and their applications, limits of sequences, series, and functions with several units on derivatives and their applications. Analytic geometry is studied using a vector approach. Problem-solving techniques are emphasized, and more challenging problems are explored. This course meets the UC/CSU Mathematics (c) course requirement.

Calculus

Level:	Grade 11, 12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	B- or better in Trigonometry/ Precalculus		

Description:

This course includes a review of analytical geometry, functions, formal differentiation, applications of the derivative, integration, applications of the definite integral, transcendental functions, methods and applications of integration, and elementary differential equations. This course meets the UC/CSU Mathematics (c) course requirement.

AP Calculus AB

Level:	Grade 11, 12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	A- or better in Trigonometry-Pre Calculus Honors.		

Description:

This course is designed for the most advanced math students. The students must thoroughly know college preparatory algebra, geometry, trigonometry, and analytical geometry. Topics include review of analytical geometry, functions, formal differentiation, applications of the derivative, integration, applications of the definite integral, transcendental functions, methods and applications of integration, and elementary differential equations. All students are required to take the AP test in May. This course meets the UC/CSU Mathematics (c) course requirement.

AP Calculus BC

Level:	Grade 12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Grade of B+ or better in AP Calculus AB		

Description:

This course covers a full year of college calculus (the calculus of functions of a single variable). Included are all of the topics covered in the AP Calculus BC exam. Emphasis is on conceptual understanding. Students will develop the ability to express, interpret, and relate functions graphically, numerically, analytically, and verbally and write and verbally communicate their mathematical results with justifications using correct notation and terminology. The graphing calculator can be used to solve various problems and will recognize when a graphing calculator is necessary and when it is not the best approach. All students are required to take the AP test in May. This course meets the UC/CSU Mathematics (c) course requirement.

AP Statistics

Level:	Grade 11, 12	Year	10 Credits
UC/CSU Approval:	Yes, Area C		
Prerequisite:	Grade of B or better in Algebra II.		

Description:

This course is intended to provide an introduction to the fundamental concepts and methods of statistics and probability. The course consists of an introduction to data exploration, sampling, experimentation, pattern anticipation, and statistical inference. Topical coverage includes basic data exploration, data modeling, correlation, regression, designing studies, probability, sampling distributions, estimating with confidence intervals, testing claims, comparing two groups, and chi-square analysis. The goal of this course is to assist students in developing statistical vocabulary and an understanding of statistical methodologies for the purpose of becoming better consumers and interpreters of statistical information. All students are required to take the AP test in May. This course meets the UC/CSU Mathematics (c) course requirement.

WORLD LANGUAGE DEPARTMENT

World Language Department Objectives:

Students, through the study of different cultures and languages, gain an appreciation of and respect for the individual. This includes their cultural, religious, and spiritual components as parts of the self. Studying and learning languages also increases our ability to connect and integrate with other communities, sharing the gospel message and mission of the Catholic church.

World Language Department Graduation Requirements:

Two years of Language courses or equivalent to the second level, preferably in the same language, are required for graduation. UC/CSU requires two years of the same language and UC/CSU recommends three Years or third level in the same language.

World Language Courses:

FRENCH

French 1

Level:	Grade 9	Year	10 Credits
UC/ CSU Approval:	Yes, Area E		

Description:

This is an introductory course in French, during which students will learn to speak, read and understand a fundamental level of basic French. From being able to list and inquire about likes/dislikes, seasons, weather, time, food, and order meals in French to being able to describe themselves, their surroundings, and what their family is like, it is truly a rewarding year. Students will be watching short videos in authentic French, learning about Francophone (French-speaking) cultures such as geography, cuisine, and music, and how those values differ from one culture to another. Students will learn to speak conversationally in small groups, sing along to music, as well as read and write short paragraphs in novice French.

French 2

Level:	Grade 9-10	Year	10 Credits
UC/ CSU Approval:	Yes, Area E		
Prerequisite:	Completion of French 1 with a C- or better		

Description:

In this class, students will build on grammar and vocabulary skills introduced in French 1. Students continue to develop and improve their listening, speaking, reading, and writing skills in the target language, further using a variety of activities incorporating familiar vocabulary and structures. Aspects of contemporary French and other Francophone cultures are introduced through the use of media, songs, games, adapted readings, and other supplemental materials. Students are assessed using a variety of formats, including oral conversations, presentations, culture projects, written assessments, short compositions, and other means.

French 3 Honors

Level: **Grade 9-11** **Year** **10 Credits**

UC/ CSU Approval: Pending, Area E

Prerequisite: Completion of French 2 with a B or better

Description:

The purpose of this course is to develop and enrich the students' linguistic abilities to speak, read and write in standard and more colloquial French at an honors level. The class will be taught primarily in French. We will explore French history and culture as well as literature and the arts. This course will prepare students to take AP French Language and Culture.

AP French Language and Culture

Level: **Grade 10-12** **Year** **10 Credits**

UC/ CSU Approval: Pending, Area E

Prerequisite: Completion of French 3 with a B or better

Description:

The AP French Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

LATIN

AP Latin

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area E

Prerequisite: B in Latin III Honors

Description:

The AP Latin course on Vergil and Caesar comprises a study of these two authors in their classic works, *The Aeneid* and *De Bello Gallico*. The syllabus requirements are in general conformity with college Latin studies in the fourth through sixth semesters. The basic objective is to progress in reading, translating, understanding, analyzing, and interpreting Latin in the original. All students are required to take the AP test in May. This course meets the UC/CSU LOTE (e) course requirement.

SPANISH

Spanish 1A

Level: **Grade 9-10** **Year** **10 Credits**

UC/CSU Approval: Yes, Area E

Description:

This year-long course is the first half of a two-course sequence (Spanish 1A + Spanish 1B) that introduces the basic elements of the language (listening, speaking, reading and writing) in real-world contexts. Students will learn the foundations of the Spanish language and learn about different cultures in the Spanish-speaking world while acquiring the Spanish language through authentic, real-world activities. Students must pass Spanish 1A to take Spanish 1B. (Completion of Spanish 1A and 1B is equivalent to Spanish 1.)

Spanish 1B

Level: **Grade 10-11** **Year** **10 Credits**

UC/CSU Approval: Yes, Area E

Prerequisite: Successful completion of Spanish 1A.

Description:

This year-long course is the second half of a two-course sequence (Spanish 1A + Spanish 1B) that introduces the basic elements of the language (listening, speaking, reading, and writing) in real-world contexts. Students will continue to learn the foundations of the Spanish language and about different cultures in the Spanish-speaking world while acquiring the Spanish language through authentic, real-world activities. Students must pass Spanish 1B in order to take Spanish II. (Completion of Spanish 1A and 1B is equivalent to Spanish 1.)

Spanish I

Level: **Grade 9-11** **Year** **10 Credits**

UC/CSU Approval: Yes, Area E

Description:

This course includes the basic skills of reading, writing, listening, and speaking in the target language and an introduction to the culture of the Spanish-speaking world. Class sessions are interactive and communicative. Vocabulary is practical and taken from daily life. Grammar, conversation, and writing are emphasized, as well as listening to a video program featuring people and places from the Spanish-speaking world. This course meets the UC/CSU LOTE (e) course requirement.

Spanish II

Level:	Grade 9-12	Year	10 Credits
UC/CSU Approval:	Yes, Area E		
Prerequisite:	Successful completion of Spanish 1 - If lower than a C+, summer packet is required. Grade 9: Proficiency level score of <i>Novice Mid</i> on the department challenge exam.		

Description:

This course is the second half of the two-year basic language program. Vocabulary and communication are expanded to allow for greater accuracy of expression and new challenges, such as speaking in varied tenses. Students are exposed to more colloquial expressions through authentic materials in Spanish. This course meets the UC/CSU LOTE (e) course requirement.

Accelerated Spanish II

Level:	Grade 9-12	Year	10 Credits
UC/CSU Approval:	Yes, Area E		
Prerequisite:	Completion of Spanish I with a grade of B+ or higher. Rising Grade 9: Proficiency level score of <i>Novice High</i> on the department challenge exam.		

Description:

This course is designed to challenge and motivate the stronger language student and to provide a deeper understanding of the Spanish language and cultures. It includes listening, speaking, reading, and writing. Classes are conducted primarily in Spanish to enhance listening skills and facilitate conversation. The curriculum is regularly supplemented by the use of realia. Students will be exposed to literature in Spanish. This course meets the UC/CSU LOTE (e) course requirement.

Spanish III

Level:	Grade 9-12	Year	10 Credits
UC/CSU Approval:	Yes, Area E		
Prerequisite:	Successful completion of Spanish 2 - If lower than a C+, summer packet is required. Rising Grade 9: Proficiency level score of <i>Intermediate Mid</i> on the department challenge exam		

Description:

This course includes moving towards a stronger proficiency in the four basic language skills and more creativity in conversation. Students begin to write essays and research papers and to narrate in all major tenses. This course meets the UC/CSU LOTE (e) course requirement.

Spanish III Honors

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area E		
Prerequisite:	Completion of Accelerated Spanish II with a grade of B+ OR Completion of Spanish II with a grade of A and additional make-up work in summer that was not covered in Spanish II curriculum. Rising Grade 9: Proficiency level score of <i>Intermediate High</i> on the department challenge exam.		

Description:

This course includes developing and enriching a student's linguistic abilities to speak, read, and write in standard and more colloquial Spanish at a fourth-year level. The class will be taught primarily in Spanish. Students will explore Spanish literature and culture and the arts, providing opportunities to practice their listening, reading, writing, and speaking skills to prepare them to take both Spanish IV AP and the AP Exam the following year. This course meets the UC/CSU LOTE (e) course requirement.

Spanish IV

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area E		
Prerequisite:	Completion of Spanish III with a grade of C+ or higher or a grade of C or higher in Spanish III Honors		

Description:

This course will help students refine skills and be confident in their production and comprehension of the target language. This course includes some review of previous years of language instruction to facilitate a better adjustment of their language according to sociocultural norms. Students will also develop skills necessary for literary comparison and analysis. Upon successful completion of this course, students will be able to communicate, narrate, and use all time frames to describe, tell stories, explain, and compare. This course meets the UC/CSU LOTE (e) course requirement.

AP Spanish Language & Culture

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area E		
Prerequisite:	Completion of Spanish III Honors with a grade of A- or higher.		

Description:

The AP program is designed around the AP Spanish Language and Culture exam. In addition, students study literature, history, and popular culture throughout the vast Spanish-speaking world. All source materials are authentic. The AP Exam requires a high degree of oral and spoken proficiency. Only Spanish is spoken in the classroom. All students will take the AP Exam in the spring. All students are required to take the AP test in May. This course meets the UC/CSU LOTE (e) course requirement.

SCIENCE DEPARTMENT

Science Department Objectives:

The Science Department holds that its aim must be to support the acquisition of scientific knowledge and methods within the framework of the philosophy of Cardinal Newman High School while encouraging them to develop into lifelong learners. Students are encouraged to ask questions and apply the scientific method, emphasizing the role of experimentation in acquiring knowledge about the physical world. Students develop cognitive skills, acquire a good background in the basic principles of science, and become informed of educational and occupational opportunities within the scientific fields of study. As students develop a deeper appreciation for the world around them, they also develop an awareness of current scientific problems facing our planet and consider potential solutions to these problems in light of Christian morality and Catholic social teaching. The Science Department forms students in an environment where mutual respect and an openness to new knowledge and opinions help them understand the basic principle that change is the rule and not the exception

Science Department Graduation Requirements:

2 Years of college prep science including Biology, Chemistry, or Physics. UC recommends 3 years, a minimum of 2 years in Biology, Chemistry, or Physics.

Science Department Courses:

Biology & Sustainable Agriculture

Level:	Grade 9	Year	10 Credits
UC/CSU Approval:	Yes, Area D		

Description:

Agriculture Biology is a one-year course designed to integrate biological science practices and knowledge into the practice of sustainable agriculture. The course is organized into four major sections, or units, each with a guiding question. Unit one addresses the question, What is sustainable agriculture? Unit two: How does sustainable agriculture fit into our environment? Unit three: What molecular biology principles guide sustainable agriculture? Unit four: How do we make decisions to maximize sustainable agricultural practices within a functioning ecosystem? Within each unit, specific life science principles will be identified, along with agricultural principles and practices guiding the acquisition of this knowledge, culminating in the development of a sustainable farm model and portfolio of supporting student research. Each student will participate in a minimum of two FFA-sponsored activities per semester as part of their grade. This course meets the UC/CSU Biology/Life Sciences (d) course requirement.

Biology

Level: **Grade 9** **Year** **10 Credits**

UC/CSU Approval: Yes, Area D

Description:

This course is lab-oriented and designed to familiarize the student with the basic principles of life sciences, the chemistry of life, cell structure, and function, how organisms obtain and use energy, patterns of heredity and genetics, the continuity and development of life on Earth, how organisms adapt to their environment, and the diversity of life, basic life processes, and ecology. All students will participate in laboratory exercises. This course meets the UC/CSU Biology/Life Sciences (d) course requirement.

Chemistry

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area D

Prerequisite: Concurrent enrollment in Algebra II or completion of Algebra II with a grade of C or higher and a grade of C or higher in Biology.

Description:

This course includes the concept of the mole, atomic structure, compound formation, chemical equations, and the basic behavior of matter. Quantitative aspects are presented through problems involving the gas laws, stoichiometry molarity, titrations, and equilibrium calculations. Topics include thermodynamics, kinetics, and radioactivity. Lecture, discussion, and laboratory exercises are used. Students are expected to provide a scientific calculator for use during the course. This course meets the requirements of UC/CSU Physical Science (d).

Chemistry and Agriscience

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area D

Prerequisite: Concurrent enrollment in Algebra I or completion of Algebra I with a grade of C or higher. Completion of Agricultural Biology or Biology with a C or higher. Biology students require teacher recommendation

Description:

This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals, and agricultural practices. Students will examine the properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research program to be conducted throughout the first semester of the course. To complete that whole project, each student will investigate and test an Agriscience research question by formulating a scientific question related to the course content, formulating a hypothesis based on related research, conducting an experiment to test the hypothesis, collecting quantitative data, and forming a conclusion based on analysis of the data. The result of this research program will be an in-depth research and experimentation paper that is technically written, based on scientific protocol, and cited using APA formatting. Additionally, students will develop and present a capstone soil management plan for agricultural producers, using the content learned throughout the course. Throughout the course, students will be graded on participation in intra-curricular FFA activities as well as the development and

maintenance of an ongoing Supervised Agricultural Experience (SAE) program. This course meets the requirements of UC/CSU Physical Sciences (d).

Chemistry Honors

Level:	Grade 10-12	Year	10 Credits
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UC/CSU Approval:	Yes, Area D
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Prerequisite:	Concurrent enrollment in Algebra II or completion of Algebra II with a grade of B or better. Completion of Biology with an A, OR completion of Biology with a grade of B or better and completion of Conceptual Physics with an A.
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Description:

The Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations as they explore content such as atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The Chemistry Honors course will cover slightly more material than the general Chemistry class and will more closely model the university-level of independent work with instructor support. This course meets the requirements of UC/CSU Physical Science (d).

Conceptual Physics

Level:	Grade 10	Year	10 Credits
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UC/CSU Approval:	Yes, Area D
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Prerequisite:	Completion of one year of Cardinal Newman mathematics with a grade of C or higher. Students enrolling in this course must also have completed Biology with a grade of C or better.
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Description:

This course will present the basic concepts of Physics with the main intent of preparing students for future courses in science and engineering. The methods used will be lecture, laboratory, and written reporting. The emphasis is on conceptual understanding, but the course shares goals with algebra of solving equations, interpreting graphs, and reasoning proportionately. The central theme will be the relationships between matter and energy expanded through the topics of Newtonian mechanics, waves (sound and light), electricity, and magnetism. This course meets the UC/CSU Physical Science (d) course requirement.

Accelerated Physics

Level:	Grade 11-12	Year	10 Credits
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UC/CSU Approval: Yes, Area D

Prerequisite: Completion of Algebra 2 with a grade of C or higher. Students enrolling in this course must also have completed Chemistry or Honors Chemistry with a grade of C or better.

Description:

The course of study is a comprehensive survey of Physics, exploring motion, waves, light, sound, electricity, and magnetism. Laboratory, demonstration, lecture, and discussion will provide students with a solid foundation and basic problem-solving skills in physics. Both concepts and application of math skills are integrated with hands-on labs for understanding these topics. This course meets the requirements of UC/CSU Physical Sciences (d).

Advanced Interdisciplinary Science for Sustainable Agriculture

Level:	Grade 11-12	Year	10 Credits
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UC/CSU Approval: Yes, Area D

Prerequisite: Completion of Geometry with a grade of C or higher or another advanced math with a C or better. Completion of Chemistry & Agriscience (Ag Chem) or Chemistry/Honors Chemistry with a C or higher.

Description: This integrated class combines an interdisciplinary approach to laboratory science and research with agricultural management principles. Using skills and principles learned in the course, students design systems and experiments to solve agricultural management issues currently facing the industry. Additionally, students will connect the products created in this class with industry activities to link real world encounters and implement skills demanded by both colleges and careers. The course culminates with an agriscience experimental research project in which students design and conduct an experiment to solve a relevant issue. Final projects will be eligible for Career Development Event competition at FFA events. Throughout the course, students will be graded on participation in intracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program. This course meets the requirements of UC/CSU Interdisciplinary (d).

Business of Sustainable Agriculture- Honors

Level:	Grade 12	Year	10 credits
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UC/CSU Approval: Yes, Area B

Prerequisite: At least one year of college-preparatory English and one year of an Agricultural Education Course (Ag Biology, Ag Chemistry, AP Environmental Science with FFA, or Advanced Agriscience.

Description: This year-long, six unit, 12th grade language arts/CTE hybrid course allows students to develop the skills and foundational knowledge needed to start a sustainable agribusiness. In addition to being able to evaluate and differentiate agricultural business types and structures, students will also develop ethical and socially responsible decision making skills through a series of analytical and research essays as well as through detailed presentations and mock trials. While the first semester of this year-long course focuses on building an understanding of agriculture and

sustainability, as well as the many forces that affect the industry, the second semester focuses on using that base knowledge to inform building business and entrepreneurial acumen. Students will participate in internships during this second semester. By the end of this course students will synthesize language, communication, critical thinking skills, marketing and economic principles, pertinent legal knowledge, as well as the foundations of agriculture into the design of a business plan for a sustainable agribusiness. After a series of revisions and peer editing, students will pitch the business plan to a panel of community partners and industry professionals who will not only evaluate the viability of each plan but offer critical feedback as well.

AP Physics 1

Level:	Grade 11-12	Year	10 Credits
UC/CSU Approval:	Yes, Area D		
Prerequisite:	Concurrent enrollment in Trigonometry or completion of Trigonometry with a grade of B or higher. Completion of Chemistry with an A grade or Honors Chemistry with a B or better.		

Description:

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves. Students will be required to take the AP Physics 1 exam in May. This course meets the requirements of the UC/CSU Physical Sciences Laboratory (d).

AP Biology

Level:	Grade 12	Year	10 Credits
UC/CSU Approval:	Yes, Area D		
Prerequisite:	A in Chemistry (or B+ in Honors Chemistry) and A in Physics (B+ in AP Physics)		

Description:

This course includes the chemical and physical basis of life, cellular structure and function, metabolism and energy, molecular and Mendelian genetics, evolution, and ecology. Students will participate in required laboratory exercises. All students are required to take the AP test in May. This course meets the UC/CSU Biology/Life Sciences (d) course requirement.

AP Environmental Science

Level:	Grade 11-12	Year	10 Credits
UC/CSU Approval:	Yes, Area D		
Prerequisite:	Successful completion of Physics, Chemistry, or Ag Chemistry with an A OR Honors Chemistry, Accelerated Physics with a grade of B or better.		

Description:

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires students to identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with them, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and

geography. All students are required to take the AP test in May. This course meets the UC/CSU Biology/Life Sciences (d) course requirement.

AP Environmental Science with FFA

Level:	Grade 11-12	Year	10 Credits
UC/CSU Approval:	Yes, Area D		
Prerequisite:	Successful completion of Algebra II and Biology or Ag Biology and either Chemistry or Ag Chemistry/ with an A or Honors Chemistry or Accelerated Physics with a grade of B or better.		

Description:

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires students to identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with them, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. All students are required to take the AP test in May. This course meets the UC/CSU Biology/Life Sciences (d) course requirement. Throughout the course, students will be graded on participation in intracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program.

SOCIAL STUDIES DEPARTMENT

Social Studies Department Objectives:

The objective of the Social Studies Department is to provide a learning environment where students can develop to their fullest potential academically. In order to facilitate that growth, the Social Studies Department has developed a series of required courses. Courses in Social Studies provide the student with a background and appreciation for world events and other cultures. World History, US History, Government, Economics, and Geography provide an understanding and appreciation for their heritage and political and economic system.

By studying the world of those who went before us, we gain perspective and empathy for our own world. We see better who we are, what we want, what is worth striving for and defending, and what is in need of change. We learn how to tell what is important, how to detect bias, weigh evidence, separate anecdotes from analysis, and distinguish between fact and conjecture.

Social studies empowers students by making them see the importance of becoming active participants in our society. If we learn how ordinary people were often the source of major changes, we understand our potential for contributing to the process.

Social Studies Department Graduation Requirements:

Three years of Social Studies courses, including World History, US History, Economics, and Government, are required. UC recommends two years.

Social Studies Department Courses:

Geography

Level:	Grade 9	Semester	5 Credits
UC/CSU Approval:	Yes, Area A		
Prerequisite:	None		

Description:

This course includes the physical, historical, cultural, and political geography of the world as a preparation for their future courses in World History and United States History. Primary emphasis is placed on knowledge of all the countries, oceans, major mountain ranges, major rivers, primary natural resources, relative population densities, environmental problems, the historical nature of the current country borders, and the position of those countries in modern society. This will also serve as a course for new high school students to begin to utilize the skills in note-taking, organization, study techniques, and presentation. This course meets the requirements of UC/CSU History/Social Science (a).

World History

Level: **Grade 10** **Year** **10 Credits**

UC/CSU Approval: Yes, Area A

Description:

World History is taught in the mode of most traditional World History courses, starting with pre-history, progressing through ancient civilizations to the beginnings of the modern world, and finishing with the major events of the 20th and 21st centuries. The course takes a “big picture” view of world history, “stepping back to see the world as an interconnected whole.” Asian, African, and Latin American history is studied alongside the major developments of Western civilizations. Expected course outcomes for students will include becoming proficient at using historical themes to find global and cultural patterns and connections across time and using critical thinking and logical reasoning skills to challenge suppositions and test hypotheses, both verbally and in writing. Students are also expected to successfully complete a research project during the second semester. This course meets the requirements of UC/CSU History/Social Science (a).

World History Honors

Level: **Grade 10** **Year** **10 Credits**

UC/CSU Approval: Yes, Area A

Prerequisite: A grade of A or better in Geography or an A in English 9 (B+ in Accl Eng 9)

Description:

Honors World History is designed for the sophomore student with a strong interest in History. This fast-paced, lecture-format class requires comprehensive note-taking and reading skills. Students will be assessed on a regular basis and are expected to synthesize the information provided in the lecture, the text, and supplementary readings. MLA format expository essays will be assigned. Multiple student projects and research papers will be required. Summer readings and writing assessments are required. This course meets the requirements of UC/CSU History/Social Science (a).

U. S. History

Level: **Grade 11** **Year** **10 Credits**

UC/CSU Approval: Yes, Area A

Description:

This survey course reviews early American history and moves to an emphasis on the Civil War to the present. The pursuit of the American ideals of democracy, liberty, opportunity, equality, and rights is used as the lens to study US history. An examination of social, political, and economic history plays a strong role in better understanding the growth of the United States. The student will use critical thinking skills, problem-solving, and other tools of social sciences (like current events) to demonstrate competency in analysis, the use of primary and secondary sources, expository writing, and the ability to work in a group. This course meets the requirements of UC/CSU History/Social Sciences (a).

AP U.S. History

Level:	Grade 11	Year	10 Credits
UC/CSU Approval:	Yes, Area A		
Prerequisite:	A grade of A- or better in World History or B+ in World History Honors		

Description:

Advanced Placement American History is a more in-depth analytical approach to the main U.S. History course, but will require more extensive outside reading and research from primary historical sources. The student will learn how to make more effective arguments using primary documents as evidence. Students will investigate topics of interest both individually and collaboratively in groups. All students are required to take the AP test in May. This course meets the requirements of UC/CSU History/Social Science (a).

Honors Government / AP Macroeconomics

Level:	Grade 12	Year	10 Credits
UC/CSU Approval:	Yes, Area A - Honors Government; Area G - AP Macroeconomics		
Prerequisite:	A grade of A- or better in previous history classes. 3.5 or higher cumulative GPA.		

Description:

This year-long course is designed for advanced students who want to study Economics and Government at the honors/college level. It provides students an opportunity to gain a critical perspective on government, politics, economics, and how they are interconnected. Students will strengthen their logic, problem-solving, analytical reading, and critical thinking skills.

Fall: Honors Government provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process. The course culminates in an examination of economic policy, indicators, and stabilization policies. Passing this course meets the graduation requirements for Government.

Spring: AP® Macroeconomics is designed to give students a thorough understanding of the principles of economics that apply to an economic system. The course places particular emphasis on the study of national income and price-level determination. Also, it develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

All students are required to take the AP test in May. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

AP US Government & Politics

Level: **Grade 12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area A

Prerequisite: A grade of A- or better in previous history classes. 3.5 or higher cumulative GPA.

Description:

AP® U.S. Government and Politics is a college-level year-long course that not only seeks to prepare students for success on the AP Exam in May but also provides students with the political knowledge and reasoning processes to participate meaningfully and thoughtfully in discussions and debates that are currently shaping American politics and society. It is important to note that this course is not a history course; it is a political science course that studies the interconnectedness of the different parts of the American political system as well as the behaviors and attitudes that shape it and are the byproducts of this system. All students are required to take the AP test in May. This course meets the requirements of UC/CSU History/Social Science (a). This year-long course fulfills the CN graduation requirement for both Government and Economics.

Business Economics and Entrepreneurship

Level: **Grade 11-12** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

Economics/Entrepreneurship is a project-based course where students use the implementation of a small business to learn the basics of Business Economics. A study of the economic concepts and aspects of marketing, advertising, accounting, and finance are examined in the context of running a small business or developing the fiscal arm of their project for the CBSL program. The students determine the nature of their business, its products and services, its management and structure, and learn the daily operations of a business. Economic and marketing concepts, such as database management, pricing, communications strategies, marketplace decision-making, resource allocation, and product distribution, are emphasized. This course meets the UC/CSU College Preparatory Elective (g) course requirement. This course does not meet the CN graduation requirement for Economics.

Economics

Level: **Grade 12** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

This semester course provides a broad view of the social science of Economics. It builds on real-world economic applications, current events, and case studies to create a basic understanding of economic concepts and our economic system. Which will include a range of both macro and microeconomic concepts. Students are introduced to the basics of economic principles and learn how to think like economists. They will analyze and interpret data to understand the laws of supply and demand. From economics in business, money, banking, and finance, students will see how economics is applied both domestically and globally. The class will also study the government's role in establishing economic stability as well as how the U.S. economy has a global impact. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

US Government

Level: **Grade 12** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area A

Description:

The study of Government is centered around the concept of "With Freedom Comes Responsibility." This course includes the foundation of our government and the student's role in the national state, and local governments. Students will be encouraged to participate in many ways within and outside the system. This one-semester course is designed to give students a general overview of the United States of America's system of government while incorporating a civics component that includes simulations of the democratic process, exposure to current and controversial issues, and service learning. Passing this course is required by Cardinal Newman High School. This course meets the requirements of UC/CSU History/Social Science (a).

Psychology

Level: **Grade 11-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area G

Description:

This course includes a general survey of the basic concepts of psychology, its theories, and terminology, plus the study of the structure & function of the brain, the central and peripheral nervous systems, the endocrine and sensory systems, cognitive processes, learning, memory, lifespan development, psychological disorders, modalities of psychotherapy, and substance abuse. A variety of strategies & assessments are used, including discussion, questioning, case vignettes, partner role-play, text reading & quizzes, and video viewing will provide a lively and interesting class. Students will also be able to take inventory and learn strategies for stress reduction. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

Sociology of Sport

Level: **Grade 11-12** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

This course includes sport as a social institution and the interrelations between sport and societal subsystems. We will examine the attitudes, values, and behaviors associated with sports. Analysis of contemporary problems associated with sports will be made, with ties made to their historical origins; such problems include race relations, the traditional and emergent role of women, aggression, violence, and political and economic concerns. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

Sport Psychology

Level: **Grade 11-12** **Semester** **5 Credits**
UC/CSU Approval: Yes, Area G

Description:

This course includes the key psychological aspects of athletic success as well as investigating the universality of those precepts in achieving success in other fields. It provides a broad overview of the major topics in the field and explores various psychological theories and research related to sport and exercise. This course will guide high school students and student-athletes in creating a balance of academics, family, and sports and in building a strong knowledge base for choosing a potential college or career focus in the field. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

Greek and Roman Studies

Level: **Grade 11-12** **Year** **10 Credits**
UC/CSU Approval: In Process (Elective G - History)

Description:

Greek and Roman Studies takes students on an exciting journey through the ancient world, exploring the fascinating cultures of Greece, Persia, and Rome. Using accessible texts like *The Greek Way* by Edith Hamilton and *Rome* by Michael Rostovtzeff, this course highlights the art, literature, warfare, and ideas that shaped these great civilizations. Students will dive into the strategies and battles that defined ancient warfare, from the Persian Wars to the rise of the Roman legions, and discover how these conflicts influenced history. By connecting ancient achievements and lessons to today's world, this class offers a fresh perspective on how the past continues to inspire modern life.

Model United Nations (Elective)

Level: **Grades 10-12** **Semester** **2.5 Credits**
UC/CSU Approval: Pending

Description:

Model United Nations is designed to blend a historical and geographical understanding of our world as articulated in the California Standards with an understanding of and participation in the Model United Nations. We will study the major global regions and the historical roots of current world issues going as far back to the beginning of the Age of Colonialism. Students will examine these issues through the lens of international relations. Participation in existing Model United Nations conferences is required. Preparation to become a successful delegate will include research and properly structured MUN position papers, and defending their positions on various global issues confronting today's international community.

Leadership (Elective)

Level: **Grade 12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area G

Prerequisite: Students for ASB/Leadership will be selected through an application and interview process.

Description:

Student leadership is a project-based course aimed at increasing students' capabilities as a leader. Through the planning and execution of events for the school, students will practice goal setting, teamwork, and how to best affect change in their communities. Students will read about the nature of leadership and its different styles, identifying the essential traits of being a leader. Additionally, students will write frequently and critically, applying their knowledge to their lives. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

THEOLOGY DEPARTMENT

Theology Department Objectives:

The objectives of the Theology department are to have our students:

1. Synthesize a deeper understanding of God's revelation in Scripture, Creation, and the Incarnation of Jesus.
2. Articulate the historical development of the Roman Catholic Church and its effects on Western Civilization, the modern Church, and the world today.
3. Utilize Christian virtues, the Ten Commandments, and other moral values of the Christian tradition as directives for making authentic moral decisions.
4. Identify and gain an expanded awareness of social justice issues in our modern society from a Catholic perspective.
5. Increase their understanding of self, lifestyle choices, and the divine nature of God through their personal, communal, and institutional faiths.
6. Actively demonstrate their faith and leadership skills by actively participating in liturgies, retreats and service projects.
7. Identify the work of Christian compassion and charity by becoming actively engaged in community service and outreach that culminates in a Senior Christian Service Project.

Theology Department Graduation Requirements:

Four years of Theology courses are required.

Theology Department Courses:

Introduction to Catholicism

Level:	Grade 9	Year	10 Credits
UC/CSU Approval:	No		

Description:

This course includes an overview of the doctrinal elements of the Catholic faith as expressed in the Apostles' Creed. Students will study the nature and origin of the Catholic Church as the One, Holy, Catholic, and Apostolic Church founded by Jesus Christ. Students will explore the Seven Sacraments as outward signs instituted by Christ to give grace and how those people who are connected to the life of Christ live a sacramental life. Students will reflect on the Ten Commandments and the Beatitudes to understand conscience formation and the implications of sin. Students will also learn about the Church's continuing mission of evangelizing the world. This course encourages students to expand and strengthen their relationship and commitment to God through Christ while understanding the origins and doctrines of the Catholic Church.

Catholicism

Level: **Grade 9** **Year** **10 Credits**

UC/CSU Approval: No

Prerequisite: Practicing Catholic with Pastor's recommendation and copy of
certificates of Baptism and Confirmation

Description:

This course's curriculum is similar to that of Introduction to Catholicism, but begins the study with the recognition that the students have a more advanced knowledge base constructed from their previous catechetical training. This course includes the study of the nature and origin of the Catholic Church as the context in which we encounter the living Jesus Christ. Students will study the Church as founded by Christ, who continues to sustain the Church with the Holy Spirit. The successors of the Apostles, the bishops, continue to authoritatively teach the Christian message to this day. Students will explore views of the Church including the Church as the living Body of Christ, the Temple of the Spirit, and the People of God. The interactions between the divine and human elements and how they interact will be studied. They will also learn about the Church's continuing mission of evangelizing the world. This course encourages students to expand and strengthen their relationship and commitment to God through Christ while understanding the basic origins and doctrines of the Catholic church.

Introduction to Sacred Scripture

Level: **Grade 10** **Semester** **5 Credits**

UC/CSU Approval: No

Description:

This course includes an overview of Sacred Scripture with an introduction to the basic principles for understanding and interpreting the Bible. It will present a sense of the unity of the narrative for the divine plan of salvation by reviewing the more famous as well as lesser-known stories from the Bible. Student reading of the Sacred Text is critically important as it allows students to react and meditate on the text. The course is not intended to be an exhaustive presentation of the contents of Sacred Scripture. It gives the students the fundamentals of approaching and understanding the Bible. Students will share their faith and are expected to reflect on the message of Scripture throughout the semester outside of class.

Church History

Level: **Grade 10** **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

This course is an overview of the history of the Catholic Church. In this foundational course, students will explore the development of the Church's doctrines, traditions, and practices. Students will begin their study in the New Testament and read other early Christian writings. They will understand how the Church evolved within the Roman Empire and how she affected the development of Western Europe. They will learn about the major events in European history related to the Church, including the fall of Rome, the Great Schism, the fall of Constantinople, and the Protestant Reformation. Students will learn about many Ecumenical Councils, particularly Nicaea, Constantinople, Trent, and Vatican II. The course will also examine key historical figures in the history of the Church. Specific

writings and Church documents will serve as a springboard for discussion of the development of basic doctrine and sacraments within the historical context. This course meets the UC/CSU College Preparatory Elective (g) course requirement.

Christian Morality and Catholic Social Teaching

Level: **Grade 11** **Year** **10 Credits**

UC/CSU Approval: No

Description:

Christian Morality includes studying the basic components of Christian morality. Students will explore the principles of the Catholic Church guiding human beings in their quest to do good and avoid evil. Students will understand the human person as a rational being endowed with intellect and free will. The course will explore the Catholic understanding of conscience and our responsibility to adhere to Church teaching in order to have a well-formed conscience. Students will be taught to view morality through the eyes of the Church. Contemporary moral dilemmas will be examined and discussed in class in order to better manifest how moral decisions are made in the context of the revelation of Jesus Christ.

In the Spring, Catholic Social Teaching students will have the opportunity to explore issues of justice found in contemporary American society and other societies. The course presents the development of Catholic teachings on social justice. Students will be asked to look critically at life, our society, and our world. The course will challenge students not simply to learn information but also to change their behaviors based on the teachings of Christ. This course will consider justice-related themes with an emphasis on the fundamental right to life and the inherent dignity of the human person. The course will also examine specific social injustices such as systematic poverty, discrimination (sexism, racism), environmental degradation, and lack of economic development. Students will discuss and explore these problems with an understanding of how personal individual decisions can contribute to these problems or help alleviate them.

Additionally, students will be guided through the initial stages of their Senior Christian Service Project. This project should address a specific need with specific ways of helping the people involved. Coursework includes the development of a Service Project. Coursework will include clearly identifying Catholic doctrine on the subject and Scriptural inspiration to help them continue strongly in their project. By the end of the year, many students will have started their projects.

Christian Philanthropy and Christian Vocations

Level: **Grade 12** **Year** **10 Credits**

UC/CSU Approval: No

Description:

A study of philanthropy's historical and theological developments (philanthropia) from a Christian perspective. Students will come to appreciate how the Incarnation of Jesus Christ radically transformed humanity's approach to caring for one another. Readings from Scripture, the Church Fathers, and the Magisterium will be considered from a personal and social perspective as students learn about the importance of exercising the virtue of charity. Current and historical philanthropic practices and opportunities will be evaluated. Students will be guided in carrying out most of their Senior Christian Service Project this semester.

Christian Vocations challenges students to examine the various ways in which people live their lives

in the world today while emphasizing the importance of good decision-making. They are challenged to assume responsibility for their personal actions with an understanding of how to use Christian moral principles. They consider the vocations of priesthood, marriage, and religious life. Students study the developmental tasks of young adulthood and the importance of making good choices in the future.

Christian Service work continues in this class with many references to previous experience and project work from the previous semester. Students will complete their projects this year, culminating in their paper and presentation in the Spring.

Christian Service

Level: **Grade 9-12**

Christian Service is incorporated into the formation of all students throughout their four years at Cardinal Newman High School. The aim of Christian Service is to help the students grow in the love of God and neighbor through concrete acts of service done for the love of God. In this spirit, each student will spend at least 25 hours per year serving others in the greater community.

Christian Service formation culminates in a Senior Christian Service Project conceived and implemented by the individual student. The student responds to a specific community need in a spirit of Christian service. All projects are approved and supported by the Christian Service Coordinator. The Senior Christian Service Project includes the selection of a community mentor associated with the chosen service work. In addition, this project involves deeper reflection, writing, and research into the specific community need being addressed and the Christian response to this need. The entire process culminates in a day of student presentations highlighting their service work and its significance.

VISUAL & PERFORMING ARTS DEPARTMENT

Visual & Performing Arts Department Objectives:

Cardinal Newman Art Program is committed to providing students with an encouraging environment where they can grow and excel as artists. We strive to deliver the highest quality of music, fine art, drama, and dance training while nurturing each student's unique gift of talent and creativity. We wish to encourage our students to achieve their fullest potential – to support them as they grow artistically and academically and develop into well-rounded individuals – nourished in body, mind, and spirit.

Visual & Performing Arts Department Graduation Requirements:

One year of Visual & Performing Art is required. This includes the arts throughout a student's four years and is known to enhance their success in other disciplines. One year is required by UC.

Visual & Performing Arts Department Courses:

Theatre 1

Level:	Grades 10-12	Year	10 Credits
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UC/CSU Approval:	Yes, Area F		
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Description: If incoming 9th grader must interview with instructor

In Theatre 1, students will be introduced to the fundamental concepts of theatre and will develop a strong foundation in the art form. They will learn the principles of improvisation, how to analyze scripts and characters, write their own scripts, design sets, props, lights, and sound, and direct their own productions. While developing these skills, students will also learn how to work collaboratively with others in a creative environment. They will develop their communication skills and learn how to give and receive constructive feedback.

Students in Theatre 1 will explore the ways in which theatre has evolved over time and how it has been influenced by different cultures and societies. They will learn about the various theories that have been developed to explain the role of theatre in society and how it reflects and shapes our values and beliefs. They will develop critical thinking skills and learn how to analyze theatre from a variety of perspectives as they apply these skills to their own work as theatre artists. By the end of this course, students will have a solid understanding of the basics of theatre and will be well-prepared for further study in the field.

Theatre Production

Level: Grades 9-12 **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Description:

This course will lead students in a performance process that will culminate in a theater production for an audience outside of class. Theatre Production includes speech, physicality, and movement training, auditions for all roles, rehearsal, and other elements of producing a play/musical. All students will perform in a teacher-directed play/musical in the Fall and a student-directed, teacher-mentored play in the Spring. Students enrolled in Theatre Production will be required to participate in after-school rehearsals and performances for one week near the completion of each semester to accommodate technical/dress rehearsals and public performances. This class will also give students credits for Human Performance.

Speech and Performance

Level: Grade 9-12 **Semester** **5 Credits**

UC/CSU Approval: Yes, Area F

Description:

In Speech and Performance, students will learn how to be better public communicators by using theatrical principles of improvisation, voice, speech, and dialect. This course delves into speaking techniques tailored to various contexts, including introductory, informative, persuasive, and special occasion speeches. While studying, students will refine their ability to convey ideas with clarity, conviction, and impact. Students will learn the intricacies of both short and long-form improvisation, fostering creativity, adaptability, and quick thinking. They will develop the ability to think on their feet, creating engaging narratives in real time. Interview skills will also be honed, equipping students with the confidence and poise necessary for successful interpersonal interactions in professional settings. Students will gain a deeper understanding of the nuances that shape language, enabling them to gain expertise in various linguistic backgrounds. Recognizing the common challenges associated with public speaking, this course will also address stress and anxiety management techniques. Through tailored exercises and strategies, students will learn to harness nervous energy, transforming it into powerful, persuasive communication. By the end of this course, students will have developed their public speaking skills and gained confidence in their ability to communicate effectively in a variety of settings.

Intro to Maker Workshop

Level: Grade 9 **Semester** **5 Credits**

UC/CSU Approval: Yes, Area G

Description:

At the intersection of Do-It-Yourself and Technology, there is a special place called the 'Maker Lab'. Join us for creative, hands-on projects that explore a variety of mediums as well as technologies, where students can use problem solving and artistic expression to 'MAKE' awesome projects in a collaborative environment.

This semester-long course will introduce students to the Maker Workshop and the principles of Project Based Learning. Students will create and innovate using a variety of tools, materials, and technologies. The course will cover topics including 3D printing and design, electronics, coding, engineering principles, arts and crafts, and various hand and power tools to create a variety of projects. The course will also emphasize the importance of safety in using these tools and equipment. The Maker Workshop is designed to be a fun and engaging course that encourages students to explore their interests, learn new skills, and develop their creativity.

Maker Workshop 1

Level: Grade 10-12 **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Description:

At the intersection of Do-It-Yourself and Technology, there is a special place called the 'Maker Workshop'. Join us for creative, hands-on projects that explore a variety of mediums as well as technologies, where students can use problem solving and artistic expression to 'MAKE' awesome projects in a collaborative environment.

Maker Workshop is a hands-on class where students learn to design, create and innovate using a variety of tools, materials, and technologies. The course will cover a wide range of topics including 3D printing and design, electronics and robotics, woodworking, metalworking, and art and crafts. Students will learn to use tools such as 3D printers, laser cutters, soldering irons, and various hand and power tools to create a variety of projects. The course will also emphasize the importance of safety in using these tools and equipment. By the end of the course, students will have developed a range of skills and have a portfolio of projects to showcase their learning. The Maker Workshop is designed to be a fun and engaging course that encourages students to explore their interests, learn new skills, and develop their creativity.

Maker Workshop 2

Level: Grade 11-12 **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Maker Workshop 1

Description:

Are you ready to level up your maker skills and start building for the real world? Maker Workshop 2 is the ultimate capstone experience that puts you in the driver's seat. In this course, you'll go beyond learning the basics—you'll create your own projects, develop detailed proposals (complete with

timelines and budgets), and see your ideas through from start to finish.

This class is all about project-based learning, giving you hands-on experience with real-world problem-solving. You'll build on everything you learned in Maker Workshop 1, from 3D design and printing to electronics, coding and AI, laser cutting and cardboard prototyping, while exploring new tools, techniques, and technologies. Collaboration is a big part of this course—you'll work with classmates and even community partners to create innovative projects that could make an impact.

Along the way, you'll be sharpening your 21st-century skills like critical thinking, creativity, teamwork, and project management—all things that employers and colleges look for. Whether your future involves STEM, the arts, entrepreneurship, or something completely different, this course is designed to prepare you for life beyond high school.

By the end of this year-long class, you'll have an impressive portfolio, hands-on experience solving real-world challenges, and the confidence to tackle whatever comes next. Maker Workshop 2 is where creativity meets career readiness—get ready to design your future!

Introduction to Studio Art

Level:	Grade 9	Semester	5 Credits
UC/CSU Approval:	Yes, Area F		

Description:

This semester-long course introduces the foundations of visual art. This class introduces the elements of art history, art criticism, and design, focusing on the basic skills of drawing, painting, and sculpture. The study in drawing will emphasize contour lines and shading techniques. Students will be introduced to color theory and technique.

Students will learn and utilize the symbolic, expressive, and descriptive qualities of the elements of art: line, shape, form, color, texture, space, and value. The course will offer an opportunity to build an art vocabulary in order to describe and write about art. These concepts will be reinforced through a variety of media.

Studio Art I

Level:	Grade 10-12	Year	10 Credits
UC/CSU Approval:	Yes, Area F		
Prerequisite:	9th grader can take the course with instructor approval; No prerequisites for grades 10-12		

Description:

This course will facilitate the study of the elements and principles of art with drawing, painting, and sculpture projects. Students will create works individually and collaboratively. Students will see contemporary and historical art. There will be at least one creative writing/research assignment involving the study of an artist or period of art chosen by the student. You will learn an art vocabulary and about art careers. Guest artists share their work and experiences with students.

This course meets the UC/CSU Visual & Performing Arts (f) course requirement.

Studio Art II

Level: **Grade 11-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Studio Art I and teacher approval

Description:

The Studio Art II class is where students begin the artistic cognitive process through critical judgment and hands-on experience in several mediums. Students will create works individually and collaboratively. They will be exposed to contemporary and historical art, they will learn to critically deconstruct the work through the application of a critical analysis framework. There will be at least one writing/research assignment involving the study of an artist or period of art. Students will learn art vocabulary and about art careers. Guest artists will be invited to share their work and experiences with students. This course meets the UC/CSU Visual & Performing Arts (f) course requirement.

AP Studio Art

Level: **Grade 12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: One year of art instruction: Graphic Design, or Studio Art 1 & 2, and instructor approval.

Description:

Students must present a portfolio for consideration to the instructor prior to enrollment. This course is a springboard for continuing study in art or work in the field of art. Students are encouraged to and will work in a variety of mediums. Students will submit a portfolio to the AP College Board consisting of 15 excellent works of art focusing on one emphasis: Drawing, 2-D Design, or 3-D Design.

All students are required to take the AP test in May. This course meets the UC/CSU Visual and Performing Arts (f) course requirement.

Graphic Design

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Previous Art Course

Description:

Graphic Design involves a world of dynamic concepts and ever-changing ideas. This project based course will promote personal and innovative thought in visual problem-solving. It will emphasize conceptual thinking through research-based problem-solving and creativity, pushing the student to "think outside the box". This course is designed to prepare and motivate students to pursue the graphic design field as a career by working on real-world projects for organizations on and off campus. Projects will involve computer-based designs using programs such as Adobe InDesign and Illustrator. This course meets the UC/CSU Visual & Performing Arts (f) course requirement.

Yearbook

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval:

Yes, Area F

Prerequisite:

Graphic Design recommended **OR** class has a maximum size of 20 students. Writing sample or interview may be required if over 20 request the class.

Description:

Yearbook/Advanced Graphic Design is a year-long course in which students apply their graphic design skills in the production of the Cardinal Newman yearbook. Students learn advanced techniques of page layout, editing, proofreading, photo selection, and desktop publishing. The course will focus on students understanding a designer's target audience and stimulating creativity through a variety of two-dimensional media. This course meets the UC/CSU Visual and Performing Arts (f) course requirement.

Honors Yearbook

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval:

Yes, Area F

Prerequisite:

Graphic Design recommended **OR** An "A" in Yearbook or portfolio and writing sample. Good standing with the yearbook instructor.

Description:

Honors Yearbook is a year-long course in which students are responsible for the production of the school's yearbook, which teaches leadership skills. Students in this class have successfully completed prerequisites in design, photography, journalism production, and writing in the initial yearbook course. As editors, these students will play a crucial role in developing and creating the year's theme and major design elements. They will also work with new yearbook students in a mentor role. They will critique previous books and present their thoughts on design, typography, theme, layout, and photography, giving new students a clear understanding of what makes a strong yearbook. In addition to the responsibility of creating content for the yearbook, Honors yearbook staff will edit pages completed by fellow staffers, offering suggestions for improvements and checking for detail cohesion within the book as a whole. Continuing students enjoy both more responsibility for and more input toward not only the yearbook as a publication but also the functioning and duties of the staff.

Introduction to Music

Level: **Grade 9** **Semester** **5 Credits**

UC/CSU Approval:

Yes, Area F

Description:

This course is an introduction to the process of active music listening. It also serves as an opportunity for hands-on exposure to music-making on guitar, ukulele, keyboard, and drums, plus the art of rapping and hip-hop beat creation. . The basic elements of music such as form, rhythm, harmony, melody, and texture are explored. The importance of various music styles such as Classical, Jazz, Blues, Rock, Country, Electronic, World Music, and Popular music are discussed with analysis of the most important composers and performers in those areas. It is expected that through this process, the student will gain a greater awareness of formerly unfamiliar music as well as a deeper understanding of the music they may already know.

Performance Guitar

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Approval by instructor

Description:

This course is intended for guitar players of all abilities and interests. The class will include developing repertoire in many styles, as well as scale and music theory. The instructor will assess each student's abilities and knowledge at the beginning of the semester in order to design a program for that particular student. The emphasis will be on understanding the guitar as both a rhythm and lead instrument and will include instruction in playing both open and closed-chord positions, improvisational soloing, and learning songs for pleasure and performance. This class will include time for practice and self-study so the student can develop their guitar-playing skills and work toward goals established by the student and teacher. This course meets the UC/CSU Visual and Performing Arts (f) course requirement.

Modern Band

Level: **Grade 9-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Prerequisite: Approval by instructor

Description:

Modern Band is a course to develop student achievement through the exploration of the modern band genre, including, but not limited to rock, pop, country, and hip hop musical styles. The students plan concerts, decide on songs to learn, rehearse, record and perform concerts on and off campus. The course will cultivate the skills necessary to perform in a band including electric guitar, acoustic guitar, electric bass, keyboard, drums, brass, woodwinds, and vocals. Students with experience on instruments such as violin, trumpet, saxophone are also encouraged to join. All students are welcome regardless of skill level. What students learn by being in Modern Band will help music be a part of their lives well beyond high school.

This course meets the UC/CSU Visual and Performing Arts (f) requirement.

Digital Media

Level: **Grade 10-12** **Year** **10 Credits**

UC/CSU Approval: Yes, Area F

Description:

Digital Media is a project based course designed to educate students on the ever-changing, and creative digital world, as well as to provide hands-on experience with industry-standard software and equipment. The curriculum covers a wide range of areas, so it appeals to a diverse group of students. Topics covered in Digital Media include audio recording, video editing, animation, digital photography, and web design.

This course meets the UC/CSU Visual and Performing Arts (f) requirement.
