

TRINITY HIGH SCHOOL

Catalogue of Courses and
Special Academic Programs

2026-2027

**Trinity High School
4011 Shelbyville Road
Louisville, Kentucky 40207-3149
(502) 895-9427
Website: www.trinityrocks.com**

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POLICY OF ADMISSION

Trinity High School admits students of any race, color or national and ethnic origin to all the rights, privileges, programs and activities generally available to students. Trinity does not discriminate on the basis of race, color, national or ethnic origin, or disability (if with reasonable accommodation the student can meet the requirements of Trinity's course of study) in the administration of its educational policies, scholarship or loan programs, athletic or other school-administered programs. Further, Trinity High School requires its students to remain unmarried during the period of their enrollment and to reside with their parents or legal guardians. The school reserves the right to refuse admission in particular instances at the judgment of the principal.

SUBJECT AND CREDIT REQUIREMENTS

To receive a diploma from Trinity High School, a student must earn the minimum number of credits required for his graduating class. Students must also take the SAT in order to graduate. Trinity's credit requirements fulfill and exceed the Commonwealth of Kentucky's Pre-college Curriculum. Students should strive to generate a final transcript that shows rigor and a variety of course work by careful selection of additional electives and maximizing credit opportunities.

Subject	Credits
Theology	4
English	4
Mathematics	4
Science	4
Social Studies	4
World Languages	2
Physical Education/Health	1.5
Fine Arts/Humanities Elective	1
Communications Skills	.5
Business & Technology Elective	1*
Test Preparation	.5*
Senior Capstone Course	.5
Freshman Success Course	.5
Additional electives required	2.5
Minimum credits required for graduation	30

Credit in Health and Physical Education is a state requirement for graduation. Unless excused in writing by a physician, each student must participate in Physical Education classes.

Kentucky's Pre-College Curriculum currently requires all students seeking unconditional admission to state universities to have two credits in a world language. Any exception to this requirement can only be granted by the particular state university after communication with the high school.

** Beginning with the class of 2029, Test Preparation will be offered as an elective, and the Business and Technology requirement will increase to 1.5 credits.*

KENTUCKY PRE-COLLEGE CURRICULUM

At the present time, all of Kentucky's state-sponsored universities require students seeking unconditional admission to those schools to have completed a specific series of courses designated as Pre-college Curriculum. Trinity's curriculum includes those courses plus other school requirements and electives.

Pre-college Curriculum

English/Language Arts - 4 credits

English I
English II
English III
English IV

Mathematics - 3 credits required

Algebra I
Algebra II
Geometry

Science - 3 credits required

Credits to include Life Science,
Physical Science and Earth/Space
Science (at least one lab course)

Social Studies - 3 credits required

From U.S. History, Economics,
Government, World Geography
and World Civilization

Foreign Language - 2 credits

Health - 1/2 credit required
Physical Education - 1/2 credit

**History & Appreciation of Visual,
Performing Arts - 1 credit**

Electives - 7 credits (5 rigorous)

Total Credits for Kentucky Pre-college Curriculum: 24

Rigorous electives should have academic content at least as challenging as that in courses required in the minimum high school graduation requirements. These electives also should be in Social Studies, Science, Math, English and Language Arts, Arts and Humanities, Foreign Language, Business, Marketing, Technology Education and Career Pathways.

LEVELS OF DIFFICULTY (LOD)

Courses at Trinity are set at different Levels of Difficulty (LOD). This helps all students to work successfully at an appropriate pace and degree of complexity. The last digit in each course number (e.g. E402) indicates the Level of Difficulty with lower numbers assigned to more difficult courses. A student's Level of Difficulty may vary from subject to subject the same way that his abilities may vary. **To best prepare for college, it is to a student's advantage to take courses with the greatest difficulty of which he is capable.**

Trinity High School will also report on the transcript a cumulative weighted GPA according to the following scale. The total weighted GPA points will be divided by the number of credits attempted. A weighted GPA will not be used for any other purposes, such as Honor Roll, National Honor Society, Beta Club, etc.

AP Courses (ending in 0)	= GPA value +2
Advanced Level (ending in 1)	= GPA value +1.6
Honors Level (ending in 2)	= GPA value +1.2
Academic Level (ending in 3)	= GPA value +0.8
Traditional and non-weighted	= GPA value +0 courses (ending in 4,5,9)

THE ADVISING PERIOD

Within his normal class schedule, a student has an Advising period on Monday, Tuesday and Thursday. This period has been designated as a time in which students may make individual use of the varied services and programs offered by Trinity High School. During this period, students hear school announcements and House news. Students may leave their classrooms and move to such resource areas as the library, the computer lab and the art studios. In addition, administrative and counseling staff may schedule necessary conferences, thus minimizing the impact such meetings have upon normal academic class time. Students choosing not to exercise any of the above options are provided with a controlled study environment under direct teacher supervision, allowing for the completion of homework, missed assignments due to illness, etc.

With appropriate approval, students may also opt to work during an Advising period as a computer, video production, library or teacher assistant.

SPECIAL ACADEMIC PROGRAMS

Trinity High School offers several programs to help meet the various individual needs of its students. Programs are listed below:

ADVANCED PROGRAM

Trinity's Advanced Program provides gifted and motivated students four years of (1) a core curriculum that will ensure a strong preparation for college with a background commensurate with the demands of the most academically oriented, post-secondary institutions throughout the country; (2) the opportunity and expectations to take courses for college credit while enrolled at Trinity at whatever point the student is ready to take on such work; (3) regular experiences with modern educational technology; (4) enrichment activities in fine arts, service learning and leadership; (5) special mentoring and counseling services focused on the unique needs of the gifted student; and (6) various forms of special recognition as an Advanced student.

2026-27 Advanced Program Requirements.

- A final annual overall GPA of 3.0 or higher.
- No more than one semester grade below 70 percent.
- A minimum of 12 semester "0" or "1" level courses.
- Participation in all scheduled Advanced Program activities.

Students who meet the above requirements are awarded Advanced Program status for each year they participate. Students participating in the program normally are expected to begin college-level course work during their junior and senior year.

ADVANCED PLACEMENT (AP) COURSES FOR COLLEGE CREDIT

Advanced Placement (AP) courses are offered to qualified students. Following guidelines established by the College Board, these courses provide students with an accelerated and in-depth examination of the subject area at a collegiate level. Students enrolled in such courses are given the opportunity to sit for the Advanced Placement Examinations offered each spring. There are more than 3,800 universities and colleges nationwide giving college credit and/or sophomore placement for sufficiently high scores. There is a fee for each AP examination. The Advanced Placement courses offered by Trinity High School are as follows:

AP Studio Art (A260) AP
Biology (C500)
AP Precalculus (M200)
AP Calculus AB (M300)
AP Calculus BC (M400)
AP Statistics (M600) AP
Chemistry (C600)
AP Environmental Science (C700)
AP Bus. with Personal Finance (B200)
AP Economics: Micro (B400)
AP Computer Science Principles (B500)
AP Computer Science A (B600)
AP Cybersecurity (B700)
AP Seminar (E200)

AP English Language and Composition (E300)
AP English Literature and Composition (E400)
AP Research (E500)
AP Human Geography (T100)
AP U.S. Government and Politics (T500)
AP Physics 1 (C300)
AP Physics 2 (C400)
AP European History (T300)
AP U.S. History (T400)
AP World History (T200)
AP Psychology (T600)
AP African American Studies (T700)
AP Spanish (S400)

COLLEGE CREDITS POLICY

Students can receive college credit while in high school by achieving acceptable scores on a College Board AP exam, or student enrollment in coursework offered by a university or college. Enrollment in a college course while a student is concurrently enrolled at Trinity High School must be approved by the school. Such approval will be the responsibility of a dean of studies with input from the Counseling Department. All requests for approval will be handled on a case-by-case basis. Any such college-level courses will not substitute for any required courses and may not be used in place of course requirements for graduation. College-level courses can be included on a Trinity transcript but will not be used in the calculation of GPA or class rank.

TRADITIONAL PROGRAM

The Traditional Program exists for students with skill deficiencies or learning differences and offers a complete, self-contained curriculum leading to graduation. While providing individualized instruction in required subject areas, the Traditional Program offers in freshman and sophomore years specialized components designed to address specific skill deficiencies in reading and math. Specialized labs provide diagnostic, prescriptive and individualized remediation primarily reinforced through technology. Counseling services are also provided to assist the student in developing interests and abilities, setting goals, making career choices and solving personal and social problems.

LEARNING SUPPORT PROGRAM

The Learning Support Program is provided for students who are in the Academic, Honors or Advanced Levels of Difficulty and who have mild learning disabilities. For a student to be eligible for the program, two criteria must be met. First, the student must have a learning disability as evidenced by a psychoeducational evaluation or must have a diagnosis of ADHD or a physical disability. Second, documentation must be provided that shows the disability substantially limits the student's ability to perform in the classroom. Trinity will assist in gathering the proper documentation. It is important to note that if medication or some other means of accommodation corrects the impairment, the impairment may no longer be substantially limiting, and the student may not qualify for classroom accommodations.

STANDARDIZED TEST PREPARATION

Students in the Class of 2028 are required to take one semester of test preparation either as a sophomore or as a junior. Preparation will include diagnostic pre-testing and post-testing, basic skills review, test strategies, and test practice.

Beginning with the Class of 2029, test preparation will be offered as an elective class.

All students will take the SAT in the spring of their junior year.

FINANCIAL LITERACY

Students in the Class of 2027 and 2028 are required to take one semester of Financial Literacy and one semester of Test Preparation.

Beginning with the Class of 2029, students will be required to complete two semesters of financial literacy. This requirement can be fulfilled with a semester of Financial Literacy I in the sophomore year and a semester of Financial Literacy II in the junior year. AP Business with Personal Finance also fulfills this requirement.

COURSE DESCRIPTIONS

This course offerings booklet is prepared each winter for the following fall. It is a preliminary statement of courses and subject to change. Final course offerings for any given year must consider student enrollment, teacher availability and the budget.

Fine Arts and Humanities Department

SONGWRITING AND MUSIC THEORY (A121)

Semester ½ Credit

Prerequisite: Junior or senior standing

This semester-long class integrates music theory and songwriting, designed for students with no prior music theory knowledge. The course will introduce fundamental music theory concepts while guiding students through the process of writing their own songs. By the end of the semester, students will have a solid understanding of music theory and the ability to compose original music.

ART I (A201) Studio

Semester

½ Credit

Prerequisite: None

Art I is a course in basic design and the following drawing techniques: pencil, charcoal, pen and ink, marker, dry brush and watercolor.

ART II (A221) Studio

Full year

1 Credit

Prerequisites: Sophomore, junior or senior standing and completion of A201

Art II is an intermediate course building upon techniques introduced in A201 and extended into new media in each of the following areas: pen and ink drawing, watercolor painting, pastels, acrylic and oil painting, and ceramics.

DIGITAL MEDIA AND COMMUNICATION (A231)

Semester

½ Credit

Prerequisite: A571 or A573

Digital Media and Communication will focus on the many aspects of this growing professional field. Students will study methods used to create content for social media accounts including videos, graphics, and various other forms of digital media. Proper grammar and language will also be stressed. Content created in class will be graded and have the opportunity to be showcased within the Trinity community (such as on the video board, social media accounts, and website) and help students build a college and professional portfolio.

ART III (A241) Studio	Full year	1 Credit
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Prerequisites: Junior or senior standing, instructor approval, A221

Art III is an in-depth course designed to allow students the opportunity for specialization, while introducing new media and techniques to the third-year student. Printmaking, painting, sculpture, pastels, colored pencil, ink, scratch board and architectural drawing and building are included in the basic curriculum of the course.

GUITAR I (A251)	Semester	½ Credit
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Prerequisite: None

This is a comprehensive guitar-methods course teaching classical guitar. Basic skills on both the guitar and reading music will be covered. The course is designed to cover chords, strums and single-line notation simultaneously. The music presented is eclectic and multicultural, with introductions to various artists and composers throughout music history.

AP ART (A260)	Full year	1 Credit
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Prerequisites: Senior standing, completion of A221 and instructor approval

Advanced Placement Art is an individualized, third-year program that places emphasis upon specialization and experimentation on the part of the student, who is encouraged to use unaccustomed materials and techniques in new and imaginative ways. The course focuses upon drawing, painting, sculpture and printmaking.

MUSIC PRODUCTION (A261)	Semester	½ Credit
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Prerequisite: Sophomore, junior, or senior standing

In this course, students will learn the basics of desktop audio production while creating their own music. After an introductory unit, students will complete recording projects in genres of their choosing. Key concepts will include recording software, equipment, creating beats, understanding sound, basic music theory, mixing technique, and musical arranging. Musical experience will be helpful, but certainly not required.

WORKING WITH CLAY (A281)	Semester	½ Credit
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Prerequisite: Sophomore, junior or senior standing

This course is an introduction to sculpture in ceramics using basic techniques such as slab, coil and pinching. No prior experience is necessary.

mache, chicken wire sculpture, copper repousse and chasing, basketry, paper engineering, mold making, folk art, jewelry design, architecture and possibly glasswork.

MODERN HUMANITIES (A311)	Semester	½ Credit
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Prerequisite: Junior or senior standing

This course explores the major artistic, musical, literary, philosophical, and historical movements that have shaped the modern world, from the beginning of the 20th century to the present day. Students will examine how these disciplines intersect and reflect the broader cultural, social, and political contexts of their times. The class will emphasize critical thinking, analysis, and discussion, allowing students to gain a deeper understanding of the human experience through various lenses of expression. Through readings, music listening, film analysis, art exploration, and discussions, students will analyze how the ideas, movements, and conflicts of the 20th and 21st centuries continue to influence contemporary thought and creativity.

DIGITAL PHOTOGRAPHY I (A321)

Semester

½ Credit

Prerequisite: Sophomore, junior or senior standing

A digital camera with manual exposure options is required. This is a complete photography course that covers the history as well as the art of photography. The course incorporates the elements of art and principles of design, and utilizes Photoshop to create styled images. Students will learn camera basics including exposure, shutter speeds, and lighting and will understand how to use the digital camera. Projects will include portraits, action photography, architecture details, landscapes, composite photos, and still life.

ANIMATION (A331, A333)

Semester

½ Credit

Prerequisite: Sophomore, junior or senior Standing

This course is a broad introduction to the field of Animation. Students will learn about the history and evolution of animation. Students will apply the 12 principles of animation to a variety of different projects. Students will create traditional animations using flipbooks and stop motion. They will also design and animate characters in Adobe Character Animator. Students will evaluate and critique animation for storytelling and technique.

DIGITAL PHOTOGRAPHY II (A341)

Semester

½ Credit

Prerequisite: Successful completion of A321

A digital camera with manual exposure options is required. Students will continue to learn more advanced settings on their DSLR camera. As students create a digital portfolio of their work, they will continue to explore elements of composition and lighting while expanding their experiences using various subject matters. Additional Photoshop techniques will enable students to continue editing their photos as well as experimenting with the digital scanner to create photo images.

GUITAR II (A351)

Full Year

1 Credit

Prerequisite: A251 and instructor approval

This course is for students who want to further their skills in guitar. An emphasis will be placed on advanced barre chords, the ability to improvise, reading advanced guitar music, and playing in small ensembles (duets, trios, quartets, etc.)

WORKING WITH CLAY 2 (A381)	Semester	½ Credit
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Prerequisite: A281

Students will explore different methods and strategies for combining wheel throwing and hand building techniques to produce a wide range of forms and pieces. Various methods of surface decoration and glazing are taught as well.

FILM STUDY (A401, A403)	Semester	½ Credit
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Prerequisite: Junior or senior standing

The focus of this course is the study and appreciation of film as an art form through a concentration on visual techniques and themes.

ART HISTORY I (A421, A423)	Semester	½ Credit
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Prerequisite: Sophomore, junior or senior standing

This course examines fine arts and philosophies of cultures from prehistoric times through the present. Students will develop a general understanding of the arts and philosophies of past and present cultures. Students will be able to apply the elements and principles of art when looking at a piece of artwork.

MODERN BAND (A501)	Full Year	1 Credit
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Prerequisite: Instructor approval

This class is for students who have previous experience on musical instruments such as brass/woodwind, keyboard, guitar, drums, bass guitar, etc. Gifted vocalists are also encouraged to enroll. Students will study, rehearse, and perform various genres of music. While some traditional band music will be explored, emphasis will be given to modern music from the 1960s and newer. Performance will be required.

CHORUS (A541)	Full year	1 Credit
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Prerequisite: None

This course is designed for the student who wishes to participate in ensemble singing. Various types of choral singing will be used and the group will make formal and informal presentations.

HISTORY OF ROCK AND ROLL (A561, A563)	Semester	½ Credit
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Prerequisite: Junior or senior standing

The focus of this course is the study and appreciation of the art of popular music styles that are uniquely American. Although the primary focus is rock music, students will begin with a study of blues and will also learn about great performers in soul, folk, country and rap. Students will learn how to listen and respond critically to these musical genres using appropriate musical terminology.

VIDEO PRODUCTION (A571, A573)	Semester	½ Credit
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Prerequisite: None

This course introduces students to the terminology, technical skills and equipment of video production. Students produce a variety of projects to demonstrate their knowledge of the use of video and audio equipment and video editing software. The course is required to be considered for the Advanced Video Production and Broadcast Journalism courses.

VIDEO PRODUCTION II (A581)	Semester	½ Credit
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Prerequisite: A571 or A573

This course is designed for students interested in continuing video production and video editing. The content of the course will provide students with an opportunity to learn advanced camera and lighting skills, script writing, graphics creation and video editing. The course includes intermediate and advanced video production concepts, techniques and hands-on training.

HANDBELL ENSEMBLE (A591)	Semester	½ Credit
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Prerequisite: None

No musical background is necessary to enroll in this course - just a willingness to learn while being part of an exciting performing group. Students will be taught music fundamentals and instrumental technique and experience the joy of playing handbells. Playing in a handbell group is a team effort, and students will explore what it means to create entertaining music in an ensemble setting.

BROADCAST JOURNALISM (A631)	Semester or Full Year 1/2 Credit or 1 Credit
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Prerequisites: Sophomore, junior or senior standing and A571 or A573

This course is designed to develop the skills required to produce television broadcast programs and news stories and to explore issues related to broadcast media. Students produce TTV, a 10-minute daily newscast, which is broadcast to the school community.

GRAPHIC DESIGN I (A641)	Semester	½ Credit
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Prerequisite: Sophomore, junior or senior standing

Graphic Design I offers the basic concepts of design and photo editing with hands-on projects and computer manipulations. Students will use Adobe Photoshop and Illustrator to enhance existing graphics, create their own artwork, and produce electronic art pieces. Students will explore the evolution of design movements and designers who have impacted the field of graphic design.

GRAPHIC DESIGN II (A651)	Semester	½ Credit
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Prerequisite: Sophomore, junior or senior standing and A641

This course is designed for intermediate art students with an interest in learning to draw and manipulate imagery through computer art programs. Students will continue to explore the principles of 2D design through the use of Adobe Photoshop and Illustrator software basics. Students will create digital drawings/compositions to be used in advertising, logos, book covers, and other printed materials. Students will create digital drawings using a vector program, photo repair and manipulation with Photoshop and compositional construction through poster designs. Students will supplement their course work with additional research and analytical projects.

COMPUTER AIDED DESIGN (A671, 673)

Semester

½ Credit

Prerequisite: None

By using the AutoCAD system, students will be introduced to the concepts of computer-aided design equipment, terminology, and theory of operation. The course will teach the skills needed to enable students to create both working and schematic drawings. This course may count as 1/2 of an Art credit or Business/Technology credit.

Business and Technology Department

COMPUTERS & TECHNOLOGY (B101, B103)

Semester

1/2 Credit

Prerequisite: None

Students will learn the basics of computer hardware, software, and online safety, providing a solid foundation for future tech exploration. This course is the first step towards earning the IC3 GS6 certification, teaching essential skills in digital communication, research, and citizenship.

AP BUSINESS WITH PERSONAL FINANCE (B200)

Full Year

1 Credit

Prerequisite: Sophomore, junior or senior standing

Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump\$tart Coalition for Personal Financial Literacy. This course fulfills the requirements for Financial Literacy I and Financial Literacy II.

ACCOUNTING I (B201)**Full year**

1 Credit

Prerequisite: Sophomore, junior, or senior standing with Algebra II credit or concurrent enrollment in Algebra II

Accounting I is a complete course in normal accounting methods designed for the student interested in learning accounting systems, both manually and by computer. It includes systematic recording, transactions, payrolls and an introductory coverage of complete accounting systems. Students will create accounting worksheets for predetermined companies from which they will then generate accounting financial statements.

PRINCIPLES OF ACCOUNTING (B202)

Semester

½ Credit

Prerequisite: Sophomore, junior or senior standing with completion of Alg. I

This is an introductory course in normal accounting methods designed for the student interested in learning accounting systems both manually and by computer.

PROGRAMMING I (B221, B223)

Semester

½ Credit

Prerequisite: Sophomore, junior or senior standing

This course offers students an introduction to computers and computer programming. Students will explore the history of modern computers, understand computer hardware and software, and will cover programming fundamentals in Python and Java, as well as web development using HTML and CSS.

PROGRAMMING II (B241)**Semester****½ Credit**

Prerequisite: Sophomore, junior or senior standing

This is an independent study course for students that have already completed Programming I. Each student chooses either the Java or Python computer programming language. The main topics covered will include algorithms, input and output, data types, variables and constants, functions, procedures, decision making, loops, arrays, searching, sorting, files, and graphics. Some of the newer languages include object-oriented programming and programming in the Windows environment.

DIGITAL MARKETING DESIGN (B231, B233)**Semester****½ Credit**

Prerequisite: None

Using graphic design skills along with marketing strategies, students will learn how to create a brand from start to finish. Students will use creative problem-solving skills that are applied to real-world situations and create professional-looking campaigns.

PRINCIPLES OF ACCOUNTING II (B252)**Semester****½ Credit**

Prerequisite: B202

This course is a continuation of Principles of Accounting I. This class will pick up with accounting for merchandising business, including subsidiary ledgers, payroll, dividend distribution, merchandise inventory, allowing for uncollectible accounts, etc.

MOBILE ROBOTICS (B261)**Semester****½ Credit**

Prerequisites: Junior or senior standing and B101 or B103 or instructor approval

A designated STEAM course, Mobile Robotics is designed to introduce the basics of building and programming a robot, using scientific, technological engineering, and mathematical concepts. Students will learn how to use applied mathematics, measurement, and feedback from sensors to program their robot to navigate in its environment and perform specific tasks

VIDEO GAME THEORY AND ANALYSIS (B271)**Semester****½ Credit**

Prerequisite: B101 or B103

This semester course examines the cultural, eth-nic, and social functions of video games in society. Special emphasis will be placed on video game theory and design, showing practical applications for video game development. Through analysis, reading, and writing, students will examine and understand the aspects of video games and their impact.

MANAGERIAL ACCOUNTING (B331)**Semester****½ Credit**

Prerequisite: Completion of B201 or B202

This course will help students obtain a basic understanding of managerial accounting concepts. Students will Understand the role of activity-based costing & management in decision making. Students will prepare schedules for profit planning & analyses of budget variances as well as use relevant information to make marketing & production decisions

ESPORTS DEVELOPMENT (B341)**Semester ½ Credit**

Prerequisite: None

Exploration of the modern development of esports through the cultural exchange between the United States of America and Japan in the 1980s to the modern day, the rise and fall of arcade communities, the development of the competitive communities, and opportunities in the world of esports- amateur, collegiate, and professional.

CONNECTING NETWORKS (B371)**Semester****½ Credit**

Prerequisite: B351

Topics covered: WAN theory and design; WAN technology, PPP, frame relay and ISDN; network troubleshooting; network SCANS skills; and threaded case studies

AP ECONOMICS (B400)**Full year****1 Credit**

Prerequisite: Junior or senior standing with Advanced Program standing

This is a college-level course of microeconomic theory and policy. The basic goal of the course is to establish an understanding of basic economic concepts in general, and the United States' economy in particular.

Microeconomics establishes an understanding of the organization and operation of the modern mixed-market economy from the viewpoint of both business firms and consumers. Stress is placed on supply-and-demand analysis, cost and production theory, and price determination under different conditions of market organization.

This course may be counted as a Business/Technology or Social Studies credit.

AI LITERACY & ETHICS (B401)**Semester****½ Credit**

Prerequisite: Sophomore, junior or senior standing

This course explores how artificial intelligence (AI) affects our world, influences decision-making, and transforms the way we live. Students will study the development and functioning of AI systems, large language models (LLMs), and machine learning, analyze their impact on society, and discuss ethical issues like bias, privacy, and accountability. Through guided use of AI, students will develop and hone their critical thinking skills and responsible use of current and emerging AI tools.

ECONOMICS (B403)**Semester****½ Credit**

Prerequisite: Junior or senior standing

Economics provides an understanding of microeconomics, macroeconomics, international topics and how an individual interacts with the economy in our American system. The focus of the course is on market organization, taxes, banking, economic growth, production and fiscal policy. This course may count as 1/2 Social Studies credit or Business/Technology credit.

AP COMPUTER SCIENCE PRINCIPLES (B500)**Full Year****1 Credit**

Prerequisite: B101 or B103

This course introduces students to the concepts of computer science and challenges them to explore how technology can impact the world, with a unique focus on creative problem solving and real-world applications. Students will complete the College Board-required portfolio and prepare to take the AP Computer Science Principles exam.

BUSINESS AND PERSONAL LAW I (B511, B513)**Semester****½ Credit**

Prerequisite: Sophomore, junior or senior standing

This course will provide a solid foundation in understanding the legal issues related to both business and personal law. It is intended to provide background and perspective that will allow students to more easily grasp business legal concepts addressed in Business Law II, but it is not a prerequisite to Business Law II. Topics include the origins, structure, and philosophy of U.S. legal systems; criminal law and procedure; and tort law (including intentional torts, negligence, and strict liability).

BUSINESS AND PERSONAL LAW II (B551, B553)**Semester****½ Credit**

Prerequisite: Sophomore, junior or senior standing

This course will provide students with an introductory but focused study on legal issues that affect business opportunities and decision making. To come into the course with a broad understanding of basic legal principles, it is helpful and recommended, but not required, that students first complete Business Law I. Topics include contract law; property law; employment law; business organizations; and debtor/creditor law.

AP COMPUTER SCIENCE A (B600)**Full Year****1 Credit**

Prerequisite: B101 or B103

This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, data structures, algorithms, analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. The study of these concepts and tools takes place as the student learns a subset of the JAVA programming language. Students will design, write and test computer programs in JAVA. Students will prepare to take the AP

Computer Science A exam.

AP CYBERSECURITY (B700)

Full Year 1 Credit

Prerequisite: Sophomore, junior or senior standing

AP Cybersecurity is a broad introduction to the field of cybersecurity that aligns closely with a standard first year college introductory cybersecurity course. Students learn about common threats and vulnerabilities, and how those combine to create risk, study the ways that individuals and organizations manage risk, and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, governments and societies.

ENTREPRENEURSHIP STUDIES (B701)

Semester

½ Credit

Prerequisites: Junior or senior standing. B400 or instructor approval

An in-depth look into how individuals combine land, labor and capital to build businesses, with special attention to business ethics and social responsibility.

WEBSITE DESIGN (B801)

Semester

½ Credit

Prerequisite: Sophomore, junior or senior standing.

In this course, students will learn the basics of designing and developing a web site. Basic principles of page layout, web-based presentations and effective navigation will be taught. The course will provide instruction on the use of HTML, Cascading Style Sheets (CSS) and provide an introduction to PHP and databases. Modules on Photoshop or GIMP will also be required. The course is very hands-on, with a majority of instruction coming from online tutorials and the completion of projects.

ADVANCED WEB DESIGN (B851)

Semester

½ Credit

Prerequisites: B801

This semester course will cover advanced CSS, JavaScript, jQuery, the use of forms, embedding media, graphics development, and responsive design.

HELPDESK FUNDAMENTALS (B901)

Semester

½ Credit

Prerequisite: B101 or B103

This course examines the fundamental needs of today's modern IT Helpdesk and its best practices. Drawing from real-world examples, this course focuses on the oft-neglected customer service aspect of IT services, as well as practical applications of solutions to some of the most common IT issues. Through reading, analysis of real-world problems, and examination of solutions, students will gain the understanding of what it means to be an integral part of an IT helpdesk and the impact on today's modern workforce.

English Department

LANGUAGE ARTS I (E004)

Full year

1 Credit

Prerequisite: Enrollment in E104

This course is paired with E104 English classes and is designed to address incoming students' individual deficiencies in reading and writing. In addition to teacher-directed lessons, individualized computer-assisted instruction is offered. Whenever possible, reading and writing assignments are coordinated with work in other subject areas. Independent novel reading is a requirement. Organization, study skills and test taking skills are also emphasized.

LANGUAGE ARTS II (E014)

Full year

1 Credit

Prerequisite: Enrollment in E204

These courses are a continuation of E004, with greater emphasis on writing skills and the writing portfolios. Computer-assisted instruction promotes individualized comprehension development and reinforces vocabulary, punctuation, spelling and writing skills.

ENGLISH I (E101, E102, E103)

Full year

1 Credit

Prerequisite: Freshman standing

These English courses place emphasis upon mastery of the paragraph, leading to development of the short essay. Emphasis is placed upon standard grammar, vocabulary development, spelling and oral communication. A survey of world literature is also presented with additional units in drama and Shakespeare. Students develop their composition skills by beginning their high school writing portfolios.

ENGLISH I (E104)

Full year

1 Credit

Prerequisites: Freshman standing with approval of the Traditional Department and/or dean of studies

This English course is designed for students with varying degrees of learning differences, especially with regard to reading and writing. A survey of literary genres is presented with an emphasis on reading skills, comprehension, vocabulary development and oral communication. Composition skills are developed throughout the year, and mastery of the paragraph and the short essay is emphasized. Students will begin their high school writing portfolios.

AP SEMINAR (E200)

Full Year

1 Credit

Prerequisites: Sophomore standing

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. This course is a pre-requisite for the AP Research course, which can be taken junior or senior year.

ENGLISH II (E202, E203)**Full year****1 Credit**

Prerequisites: Sophomore standing

These English courses place emphasis upon the mastery of the short essay with an understanding of the four forms of expression: description, exposition, narrative and argument. The mechanics of grammar are reviewed, with additional work in vocabulary, spelling and oral communication. A survey of British literature is presented, with additional world/American literature works used in E201. Students will also continue to work on their writing portfolios.

ENGLISH II (E204)**Full year****1 Credit**

Prerequisites: Sophomore standing with approval of the Traditional Department and/or dean of studies

This English course focuses upon the mastery of the short essay, with an understanding of the four forms of expression: description, exposition, narrative and argument; elements of grammar; vocabulary development; oral communication and British literature. Lessons are designed to fit the varying needs of students with learning differences and are typically paired with Language Arts II (E014), which stresses language skills as well as writing skills. Students will continue to work on their writing portfolios.

AP ENGLISH LANGUAGE AND COMPOSITION (E300)**Full year****1 Credit**

Prerequisites: Junior standing and departmental approval

This year-long course for juniors is based upon the Advanced Placement English Language and Composition program as suggested by the College Board. Students will focus on a rhetorical form approach to the subject matter, covering narration, description, argumentation and persuasion, definition, division and classification, cause and effect, process analysis and comparison and contrast. Students will work with a variety of source materials representing a wide range of authors and genres.

ENGLISH III (E302, E303)**Full year****1 Credit**

Prerequisites: Junior standing.

These courses extend the work done in sophomore year on the short essay and four forms of expression by requiring extensive work in the use of models and essays. A survey of American literature is presented in with outside readings in the American novel and Shakespeare. All students will continue to work on their writing portfolios.

ENGLISH III (E304)**Full year****1 Credit**

Prerequisites: Junior standing

This course includes a survey of American literature with a remedial reading com-

ponent. E304 maintains restricted class size as well as offering computer-assisted instruction to help reinforce language arts skills in reading and writing and a life skills program. All students will continue to work on their writing portfolios.

**AP ENGLISH LITERATURE AND
COMPOSITION (E400)**

Full year

1 Credit

Prerequisites: Senior standing and departmental approval

This course introduces students to the college-level research paper through an in-depth examination of the entire process from working bibliography and research through preliminary outlining and first-drafting, to final draft, following the Modern Language Association format. Students are required to complete two major papers of 1,500 to 3,000 words, respectively, over the course of the year. Students are also introduced to literary criticism as it applies to short fiction, poetry, novel and drama. Three hours of credit are awarded for composition and three for literature. Students enrolled also have the opportunity to sit for the Advanced Placement Examination given by the College Board each spring.

ENGLISH IV (E402/403/404)

Full year

1 credit

Prerequisite: Senior standing and department approval

The E402/403 language arts courses place emphasis upon the research paper and its preparation. In addition, classes present a survey of world literature. Students will also become familiar with college-bound vocabulary lists and writing in the expository mode.

AP RESEARCH (E500)

Full Year

1 Credit

Prerequisite: E200 and senior standing and department approval

AP Research, the second course in the AP Capstone experience, 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. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information.

YEARBOOK (E501)

**Semester or Full year
½ or 1 Credit**

Prerequisite: Sophomore, junior or senior standing

This course involves all aspects of producing a yearbook, including digital photography and journalistic writing and design. The school yearbook, *Shamrock*, is produced in this class. Outside of class photography and coverage is required.

COMMUNICATION SKILLS (E541, E543)

Semester

½ Credit

Prerequisite: Sophomore, junior or senior standing

The purpose of this course is to prepare students for the difficult task of communicating intelligently in the world of higher education and/or the world addressing a

public forum, debating, teaching and improving self-concept as a communicator.

ONLINE NEWSPAPER JOURNALISM (E561)

Semester or Full Year
1/2 or 1 Credit

Prerequisite: None

In online newspaper journalism, students will write for the ECHO online site. Students will also provide photos for both the ECHO newspaper and the Shamrock yearbook. Students will study journalism principles and fundamentals and learn about the rich history of journalism in general and at Trinity. Students will study the evolution of journalism and the myriad facets that encompass contemporary journalism.

SCIENCE FICTION (E601/603)

Semester **½ credit**

Prerequisite: Sophomore, junior or senior standing

This English elective course provides a survey of science fiction using novels, stories, articles, and film. Besides literary analysis and themes, students will consider how sci-fi has been used as an attempt to improve and instruct society. Students will complete expository writing assignments and read works from both classic and modern science fiction.

INTRODUCTION TO GOTHIC FICTION (E661/E663) **Semester** **½ Credit**

Prerequisite: Sophomore, junior or senior standing

Students will explore how Gothic fiction has shaped the modern horror story by looking at characteristics of the modern Gothic tale and the recurring theme of good vs. evil. Students will examine short stories by Shirley Jackson, Ira Levin, Stephen King, H.P. Lovecraft and Dean Koontz. We will also delve into the realm of urban folklore in Louisville and the history and haunted past of Waverly Hills. Open to all levels of difficulty.

World Languages Department

FRENCH I, GERMAN I, SPANISH I

(F101, F102, G101, G102, S101, S102, S103)

Full year

1 Credit

Prerequisites: Freshman or sophomore standing

The first-year course introduces the students to the language skills of listening, speaking, reading and writing, with the focus on developing the students' capacities to use the language in real-life situations. Students will learn vocabulary and grammar, engage in reading selections and be given opportunities to practice conversation and writing in the language.

SPANISH I (S104)

Full year

1 Credit

Prerequisites: Junior standing and approval of Traditional English teacher and/ or dean of studies

This basic course will introduce the student to the Latino people, their language and culture and the geography of the various Spanish-speaking countries. Students will begin to develop the language skills of reading, writing, listening and speaking.

FRENCH II, GERMAN II, SPANISH II

(F201, F202, G201, G202, S201, S202, S203)

Full year

1 Credit

Prerequisite: Successful completion of Chinese I, French I, German I, or Spanish I

This second-year course continues the development of the language skills of listening, speaking, reading and writing, with the focus on learning strategies for communication in a variety of ways. Students will continue to learn vocabulary and grammar at a higher level, engage in contemporary reading selections and be given opportunities to practice conversation and writing in the language.

SPANISH II (S204)

Full year

1 Credit

Prerequisites: S104

This second-year basic course expands the student's ability to use the language through continued development of the basic language skills of reading, writing, listening and speaking. Emphasis will be placed on the learning of grammar and vocabulary and using this knowledge to communicate in the target language.

FRENCH III, GERMAN III, SPANISH III

(F301, G301, S301, S302, S303)

Full year

1 Credit

Prerequisites: Junior or senior standing and successful completion of French II, German II, Chinese II or Spanish II

Third-year courses intensify the development of the language skills of listening, speaking, reading and writing, with the focus on polishing these skills for commu-

nication in a variety of ways. Students will learn vocabulary in categories and study advanced grammar. They will be exposed to contemporary and classical reading selections and be given opportunities to converse and write in the languages.

AP SPANISH IV (S400)

Full year

1 Credit

Prerequisite: Successful completion of Spanish III

In the fourth-year course, emphasis is placed on speaking and writing the language, while refinement of listening and reading skills continue. The student will review the fine points of grammar and continue his study of more complex and advanced grammar. The course will follow the guidelines of the College Board in order to prepare students for the AP exam. The course follows the themes that correspond to the exam to better prepare the students in regard to vocabulary, grammar and format. Students enrolled in S400 have the opportunity to sit for the Advanced Placement Examination given by the College Board each year. The fourth-year course will also prepare students to take the Language CLEP test at the college of their choice. Students enrolled in F400, G400 and S400 have the opportunity to sit for the Advanced Placement Examination given by the College Board each year. Fourth-year course will also prepare students to take the Language CLEP test at the college of their choice.

FRENCH IV, GERMAN IV (F401, G401)

Full year

1 Credit

Prerequisites: Successful completion of French III, German III

In the fourth-year courses, emphasis is placed on speaking and writing the languages, while refinement of listening and reading skills continue. The student will review the fine points of grammar and continue his study of more complex and advanced grammar. The courses will include the reading of literary works, studies in historical and contemporary society and offer cultural assignments that develop an understanding and an appreciation of other people from foreign countries. The student will make comparisons of other cultures to his own and learn the importance of cultural interrelationships.

SPANISH IV (S402)

Full year

1 Credit

Prerequisites: Successful completion of Spanish III

In this fourth-year course, emphasis is placed on speaking and writing the languages, while refinement of listening and reading skills continue. The student will review the fine points of grammar and continue his study of more complex and advanced grammar. The course will include the reading of literary works, studies in historical and contemporary society and offer cultural assignments that develop an understanding and an appreciation of other people from foreign countries. The student will make comparisons of other cultures to his own and learn the importance of cultural interrelationships.

SPANISH V (S500) Literature

Full year

1 Credit

Prerequisite: S400

This course focuses on the studies of modern Spanish literature and poetry

while aiding the student in language skills, self-expression, analytical prowess and es-say organization.

Health and Physical Education Department

HEALTH (P101, P102, P103, P104)	Semester	½ Credit
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Prerequisite: Freshman standing

This course is aimed at the development of a student's personal responsibilities for his health and the health of others. This course encourages good mental, social and physical health habits that are necessary for a satisfying life.

PHYSICAL ED. (P119, P129, P139, P149)	Semester	½ Credit
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Prerequisite: Freshman standing

This course is designed to provide each student with an opportunity to develop skill and understanding in a variety of sports activities, which will serve him throughout life. Objectives of increased strength and endurance, better motor skills, improved health practices and the development of the total person physically, mentally, emotionally and socially are the major goals of the course.

FIRST AID (P209)	Semester	½ Credit
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Prerequisite: Junior or senior standing

This course is designed to give the student the necessary knowledge to help handle common emergency situations. CPR, AED and basic first aid training will be included. Course content includes: first aid for different types of wounds, shock, poisoning, broken bones, burns, frostbite and how to transport victims with varying types of injuries.

ISSUES IN DRUG AND ALCOHOL EDUCATION (P301, P303)	Semester	½ Credit
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Prerequisite: Junior or senior standing

This course will examine the causes of chemical dependency and give insight into related forms of human behavior. This class is a combination of psychology, sociology and pharmacology. Students will be challenged to examine how drugs and alcohol impact the family, individuals and society. Topics include: Family Roles, Addiction as a Disease, Myth vs. Facts, Environmental Factors, Birth Defects, Adolescent Brain Development, Gender Differences, Mixed Messages, Gateway Drugs - Alcohol, Nicotine, Marijuana, Inhalants, Other Drugs - Steroids, Ecstasy, Cocaine, Heroin, Methamphetamine, GHB, Ketamine, Rohypnol, LSD, Prescription Drugs and Treatment and Recovery.

INTRODUCTION TO COACHING (P429)	Semester	½ Credit
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Prerequisite: Junior or senior standing

This course focuses on learning and developing leadership skills associated with athletic coaching. Concepts covered in this class are: leadership skills, team-building skills, risk-taking skills, communication skills, teaching discipline and organizational skills.

SPORTS ADMINISTRATION (P439)	Semester	½ Credit
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Prerequisite: Junior or senior standing

Sports Administration is a Physical Education elective designed to give students a business-like perspective of behind the scenes of sports. The class will look into the history and development of sports administration and how it has become big business from the professional ranks all of the way down to the grassroots. In this class, we will also look at various Marketing and Management styles that help shape the industry into what it is today.

NUTRITION FOR SPORT AND FITNESS (P459)	Semester	½ Credit
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Prerequisite: Junior or senior standing

This course will develop the basic understanding of nutrition and exercise that was started in freshman year. The goal of this course is to provide students with a class that gives them the knowledge to develop as student-athletes through understanding proper nutrition.

FITNESS FOR LIFE (P469)	Semester	½ Credit
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Prerequisite: Sophomore, junior or senior standing

This would be an introductory course for students to learn about strength training, with the goal of creating a healthy lifestyle habit that is a part of their lives far beyond their time at Trinity. They would learn the basics of strength and bodybuilding style training.

ATHLETIC DEVELOPMENT & PERFORMANCE (P479)	Semester	½ Credit
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Prerequisite: Sophomore, junior or senior standing and instructor approval

Athletic Development and Performance is a class for students with an already established background in strength training or those who participate in team sports at Trinity. Students will be exposed to more advanced training techniques based on their specific goals or sport, while also learning various movement skills.

CONDITIONING AND TEAM SPORTS (P489)	Semester	½ Credit
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Prerequisites: Sophomore, junior or senior standing

This course is designed for students interested in improving their overall physical condition, as well as developing team sport skills that can carry over for a lifetime

of physical activity. Students will learn about equipment, rules and strategies used for various sports. Students will be expected to participate and demonstrate proficiency in skills and knowledge of various team sports which may include basketball, soccer, volleyball, ultimate Frisbee, team handball, floor hockey and football. Please note: Student-athletes wanting to take this class during the semester in which their sport is competing must have a permission sheet signed by both their parent/guardian and the head coach of that sport.

Mathematics Department

All math classes require a TI-83/TI-84 graphing calculator.

ALGEBRA I (M101, M102, M103)

Full year

1 Credit

Prerequisite: Freshman standing and approval of dean of studies

This course begins with the study of integers and variable expressions and how to deal with data. The majority of the year will be spent on solving equations and inequalities and how to apply this ability to real situations. Systems of linear equations and inequalities, radicals and an introduction to quadratic equations will also be included in this course.

ALGEBRA I, PART I (M104)

Full year

1 Credit

Prerequisite: Freshman standing

This course is designed to cover traditional Algebra I in a two-year period for students who need additional instructional time. It covers all the essentials of basic algebra. The emphasis in this course is on detailed explanations, repetition, and review. Students will work with expressions, formulas, properties of integers, decimals and fractions to solve the basic equations and inequalities found in elementary algebra. Emphasis will be placed on basic problem-solving techniques and graphing.

ALGEBRA I, PART II (M114)

Full year

1 Credit

Prerequisites: M104

Students will continue their study of Algebra I including: solving systems of equations using various methods, understanding the rules of exponents and exponential functions, exploring the use of the Pythagorean theorem, and using the quadratic function and factoring to explore polynomials. Other investigations will include introductory statistics and probability and its applications in the real world.

AP PRECALCULUS (M200)

Full Year

1 Credit

Prerequisite: M311 Algebra II or M302 Algebra II

This course will prepare students for other college-level mathematics and science courses. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations

GEOMETRY (M201)	Full year	1 Credit
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Prerequisites: Sophomore standing and the completion of M101 or M311

Students in this course will study parallel lines and planes, congruence, deductive proof, quadrilaterals, similar figures, right triangles, circles and arcs, area, volume, constructions and selected topics from algebra.

GEOMETRY (M202)	Full year	1 Credit
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Prerequisites: Sophomore standing and completion of M102 or its equivalent

Students in this course will study parallel lines and planes, congruence, deductive proof, quadrilaterals, similar figures, right triangles, circles and arcs, area, volume, constructions and selected topics from algebra.

GEOMETRY (M203)	Full year	1 Credit
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Prerequisites: Sophomore standing and completion of M103 or its equivalent

Topics studied will include patterns, lines, planes, triangles, polygons, geometric reasoning, the use of coordinates in geometry and parallel lines.

GEOMETRY (M204)	Full year	1 Credit
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Prerequisites: Junior standing and completion of M114 or its equivalent

Topics studied will include patterns, lines, planes, triangles, polygons, geometric reasoning, the use of coordinates in geometry and parallel lines.

AP CALCULUS AB (M300)	Full year	1 Credit
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Prerequisite: Successful completion of M801, M301, M200 or approval of dean of studies

Students will study the conic sections, limits, derivatives, applications of the derivative, integration, transcendental functions and selected applications of the integral.

ADVANCED ALGEBRA 2 / PRE-CALCULUS (M301)	Full year	1 Credit
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Prerequisite: M101 or approval of Dean of Studies

Topics include linear, quadratic, exponential, logarithmic, radical, absolute value and fractional equations. Students will also study radicals, exponents, inequalities and graphing.

ALGEBRA II (M302)	Full year	1 Credit
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Prerequisites: M202 or approval of Dean of Studies

This course will focus on real numbers and their properties, exponents, grouping symbols, absolute value, linear equations and inequalities, formulas, systems of linear equations, matrices, graphing of points, lines and regions, polynomials, radicals and quadratic equations.

ALGEBRA II (M303) **Full year** **1 Credit**

Prerequisites: M203 or approval of Dean of Studies

Students will study exponents, absolute value, linear and quadratic equations, systems of linear equations, word problems, matrices and logarithms.

ADVANCED ALGEBRA II (M311) **Full year** **1 Credit**

Prerequisites: Freshman standing, satisfactory completion of high school Algebra I in the eighth grade and approval of dean of studies/department chairs

This course will focus on real numbers and their properties, exponents, grouping symbols, absolute value, linear equations and inequalities, formulas, systems of linear equations, matrices, graphing of points, lines and regions, polynomials, radicals and quadratic equations.

ADVANCED TRIGONOMETRY (M351) **Semester** **½ Credit**

Co-requisites: M301/M801

The students will learn and apply the six trig functions as ratios and with a strong emphasis on the unit circle. Students will graph the trig functions, solve both triangle right and oblique, and study analytic trigonometry. There will also be applications of trigonometry to vectors and polar coordinates.

AP CALCULUS BC (M400) **Full year** **1 Credit**

Prerequisite: M300 or departmental approval

This course will include an intensive review from Calculus AB, elementary differential equations, polar coordinates, parametric equations, tests for convergence and the Taylor polynomial.

PRECALCULUS (M402) **Full year** **1 Credit**

Prerequisites: Successful completion of Algebra, Geometry and Algebra II

Students will study functions, graphing, trigonometry, exponents, polynomials, exponential and logarithmic functions and conic sections, arithmetic and geometric series, and probability.

ALGEBRA II / TRIG (M403) **Full year** **1 Credit**

Prerequisites: Senior standing and M303 or their equivalent

Students will study systems of equations and inequalities, radicals and complex numbers, polynomial and rational functions, probability, arithmetic and geometric series, and elementary trigonometry.

ALGEBRA II (M404)	Full year	1 Credit
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Prerequisites: Senior standing and M304 and/or approval of the dean of studies

This is a course designed for students to explore its language of mathematics in verbal, tabular, graphical and symbolic forms in real-life situations. Problem-solving activities and applications allow students to model patterns and relationships with variables and functions. Each topic will be covered in more depth than Algebra 1 in order to prepare students for an introductory college course.

CALCULUS (M501)	Full Year	1 Credit
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Prerequisite: M200 or M301 or M402

This course will focus on differential calculus and the application of the differential calculus techniques.

PROBABILITY AND STATISTICS (M502)	Full year	1 Credit
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Prerequisites: Senior standing in the Honors or Academic Level

The course is intended for students who will most likely pursue business-related majors in college. It covers data organization, distributions, permutations, combinations, probability, descriptive statistics and inferential statistics.

AP STATISTICS (M600)	Full year	1 Credit
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Prerequisites: Junior or senior standing with instructor approval

Although statistics is mathematical science, it differs significantly from probability. This class will help students become better statistical thinkers and prepare them for statistics in a college-level course.

MULTI-VARIABLE CALCULUS (M601)	Full year	1 Credit
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Prerequisite: M400, instructor approval

This course would look at topics generally contained in a third semester college calculus course. Topics include, but are not limited to: Vectors and the Geometry of Space, Vector-Valued Functions, Functions of Several Variables, Multiple Integration, and Vector Analysis.

ADVANCED GEOMETRY/ALGEBRA II (M701)	Full year	1 Credit
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Prerequisites: Freshman standing, satisfactory completion of high school Algebra I in the eighth grade and approval of Dean of Studies/department chair

The geometry work will include parallel lines and planes, logic, direct and indirect quadrilaterals, similar figures, right triangle, circles, area, volume and construction. The algebra work will include exponents, linear and quadratic equations and systems, radicals, imaginary numbers, vectors, inequalities and application problems.

ADVANCED ALGEBRA II/PRE-CALCULUS (M801) Full year 1 Credit

Prerequisites: Sophomore standing with successful completion of M701 or approval of instructor and/or dean of studies

Students will study exponents, logarithms, inequalities, linear and quadratic equations and systems, polynomial equations, complex numbers, conic sections, functions and graphing, permutations, probability, the binomial theorem, mathematical induction, volume and geometric proof.

Science Department

BIOLOGY (C101, C102, C103, C104)	Full year	1 Credit
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Prerequisite: Freshman standing

As an introduction to biology, this course presents the basic principles of modern biology, as well as detailing the taxonomic groupings of the plant, animal and protist kingdoms, and an introduction to the chemistry of biology. A study of cell division is included, as well as units in Mendelian, molecular and human genetics. Evolution is presented as the most widely accepted and best supported theory, which explains the great diversity of organisms on this planet. Microbiology, the immune system and disease are also covered.

CHEMISTRY (C201, C202, C203, C204)	Full year	1 Credit
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Prerequisite: Sophomore standing

This course focuses on matter, its structure, properties and composition and the changes it undergoes. This includes the study of measurement and observation, the role energy plays in chemical and physical change, atomic theory and structure and chemical bonding. Both qualitative and quantitative lab experiences present, the core concepts on a practical level and allow students to develop problem-solving and laboratory skills.

AP PHYSICS 1 (C300)	Full year	1 Credit
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Prerequisites: Junior standing

This course emphasizes the understanding of the principles and applications of physics. Students are taught proper problem-solving techniques and lab skills. Topics covered include mechanics, heat, waves, sound, optics, electricity and magnetism, atomic physics and nuclear physics. This course prepares students to sit for the Advanced Placement exam given by the College Board.

PHYSICS (C302)	Full year	1 Credit
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Prerequisites: Junior standing

This course emphasizes the mathematical applications of the principles of physics along with understanding of concepts. Students are taught proper problem-solving techniques and lab skills. Topics covered include mechanics, heat, waves, sound, optics, electricity and magnetism, atomic physics and nuclear physics.

PHYSICS (C303, C304)	Full year	1 Credit
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Prerequisite: Junior standing.

This course investigates the major topics of physics with an emphasis on conceptual understanding and real-life applications. Students are also taught problem solving techniques and lab skills.

AP PHYSICS II (C400)**Full year****1 Credit**

Prerequisites: Senior standing and C300

This course is designed to meet the requirements of a first-year college, algebra trig-based physics course. Topics covered include mechanics, thermodynamics, sound, optics, electricity, magnetism and some modern physics topics. Mathematical application of the principles is emphasized. This course prepares students to sit for the Advanced Placement exam given by the College Board.

AP BIOLOGY (C500)**Full year****1 Credit**

Prerequisites: Dean of Studies approval

This course is designed to meet the requirements of a first-year college biology course. Topics covered include the cell, genetics, the human body, evolution, and plant and animal structure and function. Labs appropriate to the course are included. Students enrolled in this class will have the opportunity to sit for the Advanced Placement Examination in the spring.

ECOLOGY (C503)**Semester****1/2 Credit**

Prerequisites: Junior or senior standing

This is an introductory full year course into the world of environmental science. The course is interdisciplinary in nature, including concepts and ideas from multiple fields of study. Students will discuss the interrelationships of the natural world; identify and analyze environmental problems, both natural and man-made; evaluate risks and trade-offs associated with these problems; and examine alternative solutions for resolving and/or preventing them. Open to juniors and seniors.

ENGINEERING AND DESIGN I (C521, C523)**Semester****½ Credit**

Prerequisite: A671, A673 or concurrently with A671, A673

A designated STEAM course, Engineering and Design I teaches students principles of engineering, the design process, research and analysis, teamwork, communication methods, global and human engineering impacts, engineering standards, and the importance of technical documentation. Engineering and Design I gives students the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based learning.

ENGINEERING AND DESIGN II (C531, C533)**Semester****½ Credit**

Prerequisite: C521, C523

A designated STEAM course, Engineering and Design II is a semester course designed to introduce students to various STEAM aspects, including civil, mechanical, chemical and genetic engineering. The project and group based curriculum is designed to enhance students' creativity and the application of previous knowledge within math, science, art and computer design.

ELECTRICAL ENGINEERING (C541, C543)**Semester****½ Credit**

Prerequisite: Sophomore, junior or senior standing

This course is designed to supplement the Engineering pathway by introducing students to the basics of circuit theory and design, using binary and logic tables in decision making, soldering techniques, and build and design circuits for practical applications.

ENGINEERING CAPSTONE (C551) Semester 1/2 Credit

Prerequisite: C531

The Engineering Capstone design course is a culminating, project-based experience where students integrate engineering theory and design in a state-of-the-art laboratory and use coding and data analytics software to model, simulate, and analyze engineering systems. The course emphasizes innovation, project management, and professional communication, preparing students for college-level engineering.

APPLIED ENGINEERING & MANUFACTURING (C553) Semester 1 Credit

Prerequisite: C533

The Applied Engineering and Manufacturing course is designed to provide students with hands-on experience in product design, manufacturing, and automation. Utilizing state-of-the-art equipment, students will explore the principles of modern manufacturing while developing technical skills critical for success in engineering, advanced manufacturing, and industrial fields.

AP CHEMISTRY (C600) Full year 1 Credit

Prerequisites: Junior or senior standing and Chemistry

This Advanced Placement chemistry course is designed to be the equivalent of the first-year general chemistry college course. Topics covered include a review of chemistry fundamentals plus additional studies in reaction types, stoichiometry, equilibrium, kinetics, thermodynamics, atomic and molecular structure, and nuclear chemistry. Problem-solving, logical thinking and clear communication are stressed. Students enrolled in this course have the opportunity to sit for the Advanced Placement Examination in the spring.

ANATOMY AND PHYSIOLOGY (C601, C603) Full year 1 Credit

Prerequisites: Junior or senior standing

This course focuses on the interdependence and functions of major body systems and on disease and its impact upon the body. The course is designed to enable the student to better understand the relationship of a healthy body to healthy emotional and psychological functions. Studies will also include recent advances in medicine, biotechnology, biochemistry and immunology. This course gives a comprehensive preview into the type of courses that must be taken to enter medical careers.

AP ENVIRONMENTAL SCIENCE (C700) Full Year 1 Credit

Prerequisite: Junior or senior standing

This course is designed as a fourth-year elective science course at the Advanced Level. It will require analysis of field research and a research paper. Slide-lectures, project case studies and labs are used to present course content. This course is recommended for environmental engineers, lawyers, biologists, city planners, environmentalists, etc. Students enrolled in this course have the opportunity to sit for the Advanced Placement examination in the spring.

PHYSICAL FORENSIC SCIENCE (C802)	Semester	½ Credit
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Prerequisites: Junior or senior standing

This course will focus on the biological and human traits that can be examined in terms of crime scene/evidence analysis. The proper methods of collecting, preserving and analyzing evidence will be presented in both classroom and laboratory settings.

BIOLOGY II ANIMAL BEHAVIORS (C803)	Semester	½ Credit
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Prerequisites: Junior or senior standing

A STEAM designated course, this project-based course will investigate animal behaviors and interactions. Students will use the scientific method and experimental design to plan, organize, and conduct research on different animal species. Classwork will build upon previous knowledge of biological systems learned freshman year.

BIOLOGICAL FORENSIC SCIENCE (C852)	Semester	½ Credit
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Prerequisites: Junior or senior standing

This course will introduce the science of gathering and interpreting evidence resulting from the commission of a crime. Biological and chemical evidence will be examined. Through class writing assignments, students will improve both their writing and critical thinking skills.

AEROSPACE SCIENCE (C902, C913)	Semester	½ Credit
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Prerequisite: Senior standing

A designated STEAM course, Aerospace Science focuses on the principles and history of flight and space exploration. Students explore concepts of flight and propulsion systems through creative thinking, designing, and building aircraft and rockets. Emphasis will be placed on some of the basic concepts of physics such as Newton's laws of motion, velocity and parallax calculations. Instructional strategies for this class include hands-on learning, engineering design techniques, problem solving skills, and Internet-based research. The project and group-based curriculum is designed to enhance students' creativity and the application of previous knowledge with math, science, art and computer design.

AEROSPACE SCIENCE (C904)	Semester	½ Credit
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Prerequisites: Senior standing in Traditional Level

This space science class focuses on the principles and history of flight and space

exploration. Emphasis will be placed on some of the basic concepts of physics such as Newton's laws of motion, velocity and parallax calculations. Current limitations to human exploration of deep space and possible solutions to these limitations will also be examined. Instructional strategies for this class include hands-on learning experiences and Internet-based research. Interdisciplinary instruction is also a cornerstone of the curriculum.

Social Studies Department

AP HUMAN GEOGRAPHY (T100, T110) **Full Year** **1 Credit**

Prerequisite: Freshman standing or instructor approval

This course will introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Students may sit for the Advanced Placement examination given by the College Board at the end of each year.

WORLD GEOGRAPHY (T102, T103, T104) **Semester** **½ Credit**

Prerequisite: None

This course includes a study of the physical science, political structures, cultural entities and psychological considerations of world geography. Through a combination of class discussion and group work, students develop a sense of characteristic and location, investigate how people provide for their needs/wants and determine how nations develop an international understanding and promote human progress.

AMERICAN CIVICS (T152, T153, T154) **1 Semester** **½ Credit**

Prerequisite: None

This introduction to political science focuses upon the American federal, state and local government structures. Tenets of citizenship are pervasive throughout the process. Special attention will be given to the U.S. Constitution. Basic economics, jurisprudence and societal ethics will also be covered.

AP WORLD HISTORY (T200) **Full Year** **1 Credit**

Prerequisite: None

This is a College Board approved course in World History. This course will review the expansive history of the human world. Five themes will be used as a frame of reference in the chronological study of our world's history: Interaction between humans and the environment; development and interaction of cultures; state-building and expansion; creation, expansion and interaction of economic systems; and development and transformation of social structures. Students may sit for the Advanced Placement examination given by the College Board at the end of each year.

WORLD CIVILIZATION (T202, T203, T204) **Full year** **1 Credit**

Prerequisite: None

This course traces the history of Western Civilization from 1500 A.D. through the present day. Students examine the various forms of government and the role of the individual in each.

THE HOLOCAUST (T251)**Semester****1/2 Credit**

Prerequisite: Junior or senior standing

In this course, students will explore the Holocaust through the words of those who endured it. After a brief overview of how the Nazi Party took power, students will analyze what the Final Solution entailed and how it changed the lives of those affected. Course study will include an investigation of the Nuremberg Race Laws and how German propaganda created an atmosphere of fear. Students will explore how the Nazi Party used killing squads and concentration camps to annihilate targeted groups of people. The impact of resistance groups as well as the fall of the Nazi Party in 1945 will also be analyzed. Open to all levels of difficulty.

AP EUROPEAN HISTORY (T300)**Full year****1 Credit**

Prerequisites: Junior or senior standing

This course examines the history of Western Civilization from 1500 A.D. to post-World War I, including the late Middle Ages, the Renaissance, the Reformation, the Counter-Reformation, the Religious Wars, the Scientific Revolution, the Age of Enlightenment, the French Revolution, the rise of Napoleon, the development of European supremacy, pre-World War I politics and imperialism, and alliances leading to World War I. Students may sit for the Advanced Placement examination given by the College Board at the end of each year.

UNITED STATES HISTORY (T302, T303, T304)**Full year****1 Credit**

Prerequisite: Junior or senior standing

United States History is a chronological survey of important events that took place in the national, political, economic, social, intellectual, artistic and cultural development of the nation. The time period to be examined begins with the Post-Civil War Reconstruction and extends to the Modern Era. Advanced levels emphasize critical thinking skills and event impact.

WORLD WAR II (T351,T353)**Semester****½ Credit**

Prerequisite: Junior or senior standing

This course will study the history of World War II. The focus will be on its origin, nature, conclusion, and significance. This includes the political, military, diplomatic, economic, technological, social, and ideological factors of the war. There will be an emphasis on WWII facts and stories, as well as WWII historiography, liberation and legacy, primary evidence, and original student research.

AP UNITED STATES HISTORY (T400)**Full year****1 Credit**

Prerequisites: Junior or senior standing, Advanced or Honors level

This course entails a fast-paced, thorough examination of United States history from the late 1400s to the 2016 presidential election. As the AP U.S. History examination focuses on social history, this course will emphasize African-American history, women's history, etc. to best prepare students to pass the AP exam in May. This course will require higher-level reading and writing skills that will be routinely

employed to analyze historical documents and artifacts as well as construct detailed written arguments involving a range of complex topics.

AMERICAN CIVIL WAR (T401, 403)

Semester

1/2 Credit

Prerequisite: Junior or senior standing

This course traces the history of the Civil War by examining root causation, the course of military engagements and the consequences of the conflict. Elements of sectionalism, including varying social perspectives, enable the student to consider the realities of competing forces during the most tumultuous period of 19th-century America.

AP U.S. GOVERNMENT & POLITICS (T500)

Full year

1 Credit

Prerequisites: Junior or senior standing

This course entails a fast-paced, thorough examination of United States government structure and political culture. The AP U.S. Government and Politics examination is analytical in nature, so this course will examine not only general concepts of U.S. politics, but also will emphasize analysis of specific historical and contemporary examples. This course will require higher-level reading and writing skills that will be routinely employed to analyze political rhetoric, government data, and media coverage of current events as well as construct detailed written arguments involving a range of complex topics.

RECENT U.S. HISTORY (T501, T503)

Semester

1/2 Credit

Prerequisite: Junior or senior standing

This is a one-semester course in United States history from the election of 1952 (Eisenhower vs. Stevenson) to the present day. Highlights of the course include: the Cold War, the Kennedy assassination, the Vietnam War, the King assassination, the Watergate scandal, the end of the Cold War, the Gulf Wars, the 2000 election, etc. The politics and economics of this era will also be discussed.

AFRICAN-AMERICAN HISTORY (T541/T543)

Semester

1/2 Credit

Prerequisite: Junior or senior standing.

This semester course will examine the history of African Americans from their arrival in the United States on slave ships to the present time. We will focus on slavery, emancipation, segregation, civil rights, notable African Americans, African American culture, and the African American experience today, integrating historical texts with novels and music.

AP PSYCHOLOGY (T600)

Full year

1 Credit

Prerequisites: Junior or senior standing

To learn and examine through in-depth study, preparation for AP test, the methods by which psychologists examine behavior and mental processes by actively engaging in debate, discussion, research on-hand activities and a plethora of additional resources outside the binding of the text such as the Web, book reviews, movies, guest speakers, presentations and team research projects. From this pro-

cess, the students will have a greater appreciation for how and why humans think and feel as well as being prepared to sit for the Advanced Placement examination.

PSYCHOLOGY (T601)

Full year

1 Credit

Prerequisite: Junior or senior standing

Psychology is the study of human behavior and mental processes. This course will introduce students to such basic concepts as personality theories, states of consciousness, human emotions, the fundamental physiology of the brain and the work of important psychologists and may do preparation for the AP test. Applications will also be made to specific situations in business, education and social problems. Students will also be introduced to key theorists in the history of psychology.

PSYCHOLOGY (T603)

Semester

½ Credit

Prerequisite: Junior or senior standing

Psychology is the study of human behavior and mental processes. This course will introduce students to such basic concepts as personality theories, states of consciousness, human emotions, the fundamental physiology of the brain and the work of important psychologists. Applications will also be made to specific situations in business, education and social problems. Students will also be introduced to key theorists in the history of psychology.

APPLIED PSYCHOLOGY (T613)

Semester

½ Credit

Prerequisite: T603

Applied Psychology is a vast field of study, so this course aims to teach students how to 'apply' psychological concepts and theories and answer basic questions to understand human behavior. This course will focus on four branches of psychology: behavioral, abnormal, forensic and sports psychology.

AP AFRICAN AMERICAN STUDIES (T700)

Full year

1 Credit

Prerequisite: Sophomore, junior or senior standing

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with rich and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. This course includes preparation for the AP African American Studies exam and the required project-based component.

PHILOSOPHY (T701)

Semester

½ Credit

Prerequisite: Junior or senior standing

This course is designed to give students a general introduction to the subject of philosophy through an examination of key historical figures and pertinent philosophical topics. After introducing students to a working definition of philosophy, the works of famous philosophers will be studied.

PHILOSOPHY (T703)**Semester****½ Credit**

Prerequisite: Junior or senior standing

This course will focus on the fundamental principles of Western philosophy. Major topics addressed would include the essence of being, the quest for virtue, the defining of morality, the power of death and the nature of politics. Upon conclusion, students would have several philosophical approaches with which to analyze everyday issues.

SOCIOLOGY (T801)**1 Semester****½ Credit**

Prerequisite: Junior or senior standing

This course is an introduction to the discipline of sociology. Topics will include research, culture, socialization, the individual in society, social institutions, social minorities and collective behavior. Students will develop a sociological imagination that will help them see how sociological concepts apply in their daily lives.

SOCIOLOGY (T803)**1 Semester****½ Credit**

Prerequisite: Junior or senior standing

This course would be an overview and introduction to the basic concepts in the field of sociology. Some concepts to be covered will include research, culture, socialization, social groups, social structure, deviance, social stratification and social institutions.

Enrichment Courses

FRESHMAN SUCCESS (Q101, Q103)

Prerequisite: Freshman standing

Freshman Success is a required enrichment course for all freshmen. The aim of the course is to assist students as they transfer into the high school experience. The course includes units that explore their own personality strengths and weaknesses, study skills, conflict management and other skills necessary in young adulthood.

FINANCIAL LITERACY (Q213, Q311)

Semester

½ Credit

Prerequisite: None

This course will focus on financial literacy in a practical sense, looking at personal finances, budgeting, savings/loans, taxes, and mortgages.

TEST PREPARATION (Q303)

Semester

½ Credit

Prerequisite: Junior standing

This course covers the mechanics, concepts and strategies of the SAT. Students will practice test questions illustrating concepts of timing, pacing, guessing and test-taking strategies. Students will complete up to three practice tests with answers and explanations. A post-test will be administered in the spring of the junior year. An actual SAT is required of all Trinity students to obtain a diploma. The SAT is best taken following the junior year.

SENIOR CAPSTONE (Q401, Q403)

Prerequisite: Senior standing.

Senior Capstone is a required enrichment course for all seniors. The aim of the course is to enable students to reflect and summarize their high school education and prepare to transition to the next phase of their lives. The course includes units that explore careers, interview skills, time management, personal finance, spirituality and other life skills.

Theology Department

The theology program is composed of seven core semester-length subject themes and one elective subject theme. The courses are designed systematically, with each course designed to build on the foundation established by preceding courses. The guidelines are also designed to help young people develop the necessary skills to answer or address the real questions that they face in life and in their Catholic faith.

Each Trinity student is expected to complete community service as part of their theology classes. Members of the National Honor Society and the National Beta Club also complete service work in addition to their theology-required service

Freshman, Sophomore and Junior Required Courses

FRESHMAN THEOLOGY 1 (R101, R102, R103, R104) Semester ½ Credit

Prerequisite: Freshman standing

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

FRESHMAN THEOLOGY 2 (R151, R152, R153, R154) Semester ½ Credit

Prerequisite: Freshman standing

The purpose of this course is to introduce students to the Mystery of Jesus Christ, the Living Word of God, the Second Person of the Blessed Trinity. In learning who He is, the student will also learn who He calls them to be.

SOPHOMORE THEOLOGY 1 (R201, R202, R203, R204) Semester ½ Credit

Prerequisite: Sophomore standing

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

SOPHOMORE THEOLOGY 2 (R251, R252, R253, R254) Semester ½ Credit

Prerequisite: Sophomore standing

The purpose of this course is to help the student understand that in and through

the Church they encounter the Living Jesus Christ. The students will come to know the Catholic doctrine that the Church is the living Body of Christ today.

JUNIOR THEOLOGY 1 (R301, R302, R303, R304) Semester ½ Credit

Prerequisite: Junior standing

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

JUNIOR THEOLOGY 2 (R351, R352, R353, R354) Semester ½ Credit

Prerequisite: Junior standing

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

Senior Required Course

CATHOLIC SOCIAL TEACHING (R421, R422, R423, R424) Semester ½ Credit

Prerequisite: Senior standing

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

Senior Electives - Seniors must choose one of the following:

COMMUNITY SERVICE (R431, R433) Semester ½ Credit

Prerequisites: Senior standing with approval of student affairs director. Students must have the ability to provide transportation and parental approval to leave campus for service.

The purpose of this course is to help fulfill Trinity's mission to instill "Christian values in the Catholic Tradition." The Community Service honors this segment of the school's mission by travelling off-campus to service assignments where students learn about and practice being servants to our local community.

HISTORY OF THE CATHOLIC CHURCH (R461, R463) Semester ½ Credit

Prerequisite: Senior standing

The purpose of this course is to supply students with a general knowledge of the

Church's history from apostolic times to the present. Students will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him throughout history through the Holy Spirit over the last 2000 years of history.

COMPARATIVE RELIGIONS (R471/R473)

Semester ½ Credit

Prerequisite: Senior standing

This course is designed to help students understand how the Catholic Church relates to non-Catholic Christians as well as to people of other religions or no religion. It starts with the foundation that Jesus Christ established the Catholic Church and gave her to the fullness of God's revelation. Comparative Religions also explores the recognition of spiritual truths that can be found in non-Catholic churches and religions. This course will help students see the ways that other systems of belief or practice are different from the Catholic faith. The curriculum is aligned with the Catholic Bishops Framework.

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