

2012-2013

Trinity Catholic High School



COURSE CATALOG

Course Listings
Course Descriptions
Graduation Requirements

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COURSE SELECTION PROCESS FOR THE 2012-2013 SCHOOL YEAR

Registration of current students for the following school year takes place during February; however, Trinity accepts applications and registers students by appointment throughout the year. Late registrations are dependent on space availability.

REGISTRATION FEE = \$200.00

- ⇒ The registration fee is due by February 17, 2012.
- ⇒ Registration is not complete until this fee is paid.

THE PROCESS

- ❑ distribution of course catalogs
- ❑ explanation of the registration process
- ❑ explanation of course offerings by departments
- ❑ advising by counselors and faculty advisors
- ❑ completion of Course Selection Form
- ❑ parent review of Course Selection Form and payment

DEADLINE

Course Selection Forms are due no later than February 14, 2012. The non-refundable registration fee is due by February 17, 2012. Registration is not complete until the registration fee is paid.

COURSE AND CREDIT LOAD

Students must register for the required courses and the required number of elective courses specific to their grade level. Students are required to have their Course Selection Form reviewed by their advisor. A counselor and the principal must first approve any variations from the normal course selections as outlined on page 4.

SCHEDULE AND CONFLICT CHANGES

Students are required to specify alternate courses on their Course Selection Forms. *Department recommendation may be required for some of these classes.* In the event of a scheduling conflict, these alternates will be used to resolve the conflict.

Conflicts can occur because many classes may be offered only one time. These classes combined with other required courses may result in conflict necessitating the use of alternates. It is for this reason that alternates be chosen carefully and thoughtfully.

All course selections are considered final at the end of registration.

Because not all schedule requests may be possible, students must choose appropriate and acceptable alternates. Changes in course selections may be necessary because of academic performance after registration or scheduling conflicts.

During the school year, course or level changes will be made through the guidance department based on teacher recommendations, department approval, and consultation with parents or guardians. Changes will only be made for academic reasons. The student's ability to meet course requirements will be the primary consideration for a change.

THINGS TO CONSIDER WHEN MAKING COURSE SELECTIONS FOR NEXT YEAR

1. What courses and credits are needed for graduation (refer to page 2)?
2. What are my plans for after high school and how do they impact my schedule (refer to page 3-4)?

Post-high school options:

- Two or Four Year College/University (degree seeking course of study)
- Work (on-the-job training)
- Apprenticeship (training completed by working with an organization such as a union or a specifically skilled individual)
- Military Service (learning a skill and/or going to college while serving)
- Specialized Technical School (six- to twenty-four month training in a specific area such as computer networking or air conditioning).

Early in high school, students should begin to investigate post-high school plans and understand how they impact course selection; for example, the electrician's apprenticeship program has certain math requirements.

Students are encouraged to keep their options open by selecting courses that fit many different programs and careers.

3. What courses have prerequisites? For example, Architecture 1 is a prerequisite for Architecture 2.

HOW TO BEGIN

- Look at the list of required courses for next year.
- Look two years down the road and think about prerequisites.
- Think about your post-high school plans.
- Discuss your options and choices with your parents, counselor, advisor, and teachers.
- Select matching alternates if possible; for example, Business Law as an alternate to Accounting (practical art alternate for a practical art course).
- Talk with teachers, other students who have taken the class, and advisors.
- Meet with your advisor/counselor.
- Have your advisor review your course election form when completed.

ACADEMIC GRADUATION REQUIREMENTS

A minimum of 31 credits is required for graduation from Trinity Catholic High School. Required and elective credits are listed below: Number of credits required for transfer students may vary.

Required Courses			
Religion	4.0 credits	(8 semesters)	
English	4.0 credits	(8 semesters)	
Social Studies	3.0 credits	(6 semesters)	--including American History
Math	3.0 credits	(6 semesters)	--including Geometry
Science	3.0 credits	(6 semesters)	--including Biology
Practical Art	1.0 credits	(2 semesters)	--including Personal Finance
Fine Art	1.0 credits	(2 semesters)	
Physical Education	1.0 credits	(2 semesters)	--including Fund. of PE
Health	0.5 credits	(1 semester)	
Bridges	1.0 credits	2 semesters)	
	21.5 credits		
Electives ³	9.5 credits		
TOTAL	31.0 credits		

3--2 units of foreign language are not required but strongly recommended

<p><i>Freshman</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Religion _____ 1.0 credit (2 sem) <input type="checkbox"/> English _____ 1.0 credit (2 sem) <input type="checkbox"/> Fund. of PE _____ 0.5 credits (1 sem) <input type="checkbox"/> Social Studies _____ 1.0 credit (2 sem) <input type="checkbox"/> Math _____ 1.0 credit (2 sem) <input type="checkbox"/> Science _____ 1.0 credit (2 sem) <input type="checkbox"/> Bridges _____ 1.0 credit (2 sem) <input type="checkbox"/> Electives _____ 1.5 credits (5 sem) 	➔	<p>Suggested Freshman Electives:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Spanish <input type="checkbox"/> Fine Arts <input type="checkbox"/> Practical Arts <input type="checkbox"/> Health <input type="checkbox"/> Reading (required for some) <input type="checkbox"/> Pre-Algebra (required for some)
<p><i>Sophomore</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Religion _____ 1.0 credit (2 sem) <input type="checkbox"/> English _____ 1.0 credit (2 sem) <input type="checkbox"/> Social Studies _____ 1.0 credit (2 sem) <input type="checkbox"/> Math _____ 1.0 credit (2 sem) <input type="checkbox"/> Science _____ 1.0 credit (2 sem) <input type="checkbox"/> Electives _____ 3.0 credits (6 sem) 	➔	<p>Suggested Sophomore Electives:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Spanish <input type="checkbox"/> Fine Arts <input type="checkbox"/> Practical Arts <input type="checkbox"/> Physical Education <input type="checkbox"/> Health
<p><i>Junior</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Religion _____ 1.0 credit (2 sem) <input type="checkbox"/> English _____ 1.0 credit (2 sem) <input type="checkbox"/> Social Studies _____ 1.0 credit (2 sem) <input type="checkbox"/> Math _____ 1.0 credit (2 sem) <input type="checkbox"/> Electives _____ 4.0 credits (8 sem) 	➔	<p>Suggested Junior Electives:</p> <p>Check graduation requirements, prerequisites, & post-secondary requirements.</p>
<p><i>Senior</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Religion _____ 1.0 credit (2 sem) <input type="checkbox"/> English _____ 1.0 credit (2 sem) <input type="checkbox"/> Electives _____ 5.0 credits (10 sem) 	➔	<p>Suggested Senior Electives:</p> <p>Check graduation and college admission requirements.</p>

POST SECONDARY ADMISSION REQUIREMENTS AND RECOMMENDATIONS

At the end of your sophomore year when you are making decisions about registering for classes for your junior year *you must give some consideration to your post-high school plans*. These next few sections will give you some guidelines but they are not absolutes. Information on college requirements is available from the Guidance Department or from the college's website or catalog.

Four Year Degree-granting Colleges & Universities: (minimum requirements)

- ❑ English.....4 credits (8 semesters)
- ❑ Math.....3-4 credits (6-8 semesters not including Pre-Algebra)
- ❑ Social Studies.....3 credits (6 semesters)
- ❑ Science.....2-3 credits (4-6 semesters)
(*General Science will not satisfy this requirement. Must include courses in at least two of the following areas of science: physical science, biology, chemistry, physics or earth science.*)
- ❑ Foreign Language...2 credits (4 semesters)
- ❑ Fine Arts.....1 credit (2 semesters)

Two Year Colleges (transfer programs):

Since the intent here is to transfer into a four-year college after two years, most of these programs mirror the requirements listed above.

Two Year Colleges (Associate in Applied Science-- terminal program):

Requirements for programs such as office assistant, childcare, merchandising, commercial art, etc., vary widely from school to school, but most prefer college preparatory courses in high school.

Two Year Technical Schools:

- ❑ English.....4 credits (8 semesters)
- ❑ Math.....2 credits (4 semesters) (*Algebra 1 & Geometry*)
- ❑ Science.....2 credits (4 semesters) (*some may require more*)

Nursing Schools-- hospital diploma programs (RN) & college programs (BS):

- ❑ English.....4 credits (8 semesters)
- ❑ Math.....3 credits (6 semesters) (*Algebra 1 & Geometry*)
- ❑ Science.....3 credits (6 semesters) (*Biology and Chemistry*)
- ❑ Social Studies.....2 credits (4 semesters) (*American History*)

NCAA STUDENT ATHLETE REQUIREMENTS:

DIVISION I

16 CORE-COURSE RULE

16 Core Courses:

- 4 years of English.
- 3 years of mathematics (*Algebra I or higher*).
- 2 years of natural/physical science (*1 year of lab if offered by high school*).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (*from any area above, foreign language or non-doctrinal religion/philosophy*).

DIVISION II

14 Core Courses:

- 3 years of English.
- 2 years of mathematics (*Algebra I or higher*).
- 2 years of natural/physical science (*1 year of lab if offered by high school*).
- 2 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 3 years of additional courses (*from any area above, foreign language or non-doctrinal religion/philosophy*).

The chart below is a general guide. In addition to these classes, colleges will look at your class rank, GPA, & standardized test scores. Be sure to check the requirements of the schools you are considering.

	Public 4-year State University ¹	University of Missouri System ²	Missouri Private 4-year University ³	Community College ⁴	Technical College Military Training ⁵
English	4	4	4	4	4
Math	3-4	4	3	3	2-3
Science	3	3	3	3	2-3
Social Studies	3	3	3	3	3
Fine Art	1	1	1	1	1
Practical Art	1	1	1	1	1
Additional Units	3 add. Units / 2 foreign language	3 add. Units / 2 foreign language	2 foreign language recommended	2 recommended	_____

¹ University of Central Missouri, Lincoln University, Missouri State, Missouri Western, Northwest Missouri State, Southeast Missouri State, Missouri State, Truman State

² University of Missouri-Columbia, UMKC, Missouri University of Science & Technology, UMSL

³ Culver-Stockton, Drury, Fontbonne, Lindenwood, Maryville, SLU, Westminster, William Woods, others

⁴ Recommended course for an Associate's Degree (AA)—transfer degree should be the same as 4-year public requirements; Associate of Applied Science (terminal degree)—recommended courses vary widely (Recommended courses to these programs vary—check with the school or area of study involved.)

The above sections are guidelines and are not absolutes. It is best that you begin contacting colleges, technical schools, apprenticeship programs, etc. to determine what is needed to fulfill post high school plans.

AVAILABLE LEVELS

Trinity Catholic High School strives to accommodate students of differentiated ability and achievement levels by offering courses and curricula that provide appropriate levels of challenge for all students.

Standard – designed for students of average ability who are performing at or near grade level.

Basic – designed to emphasize fundamental concepts and skills for those who need further development in these areas.

Honors – designed for the well-prepared, above-average student who is performing well above grade level.

College Credit (Honors) – designed for eligible student who wishes to dual enroll in course for college credit through SLU, UM-St. Louis, Missouri Baptist, or Advanced Placement testing.

A 3.0 cum GPA out of 4.0 (non-weighted) is required for college credit eligibility.

Placement recommendations are made by subject area. Course level placements are based on review of the student's academic record.

- Ability as indicated through standardized tests
- Performance as indicated by previous grades
- Current level of difficulty and course content
- Previous high school courses taken

RELIGION

The religion department strives to provide a program of formal religious study based on the teachings of Jesus Christ and the Catholic Church. Four credits in Religion are required for graduation.

The Revelation of Jesus Christ in Scripture (9)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

Who is Jesus Christ? (9)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who Jesus is, the students will also learn who He calls them to be.

The Mission of Jesus Christ (The Paschal Mystery) (10)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

Sacraments as Privileged Encounters with Jesus Christ (10)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

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

Principles of Morality (11)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

This course teaches students how to make moral decisions that will be in agreement with the Catholic tradition. It is directed toward formation of conscience and mastery of a basic moral decision making process. The course examines key moral issues of the day and applies Church teaching and the moral decision making process to a wide variety of issues and case studies.

Church History (11)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

This course will examine the self-understanding of the Christian community and its growth and development from its inception in New Testament times and the era of the Apostolic Fathers, through the major historical eras, with a focus on the Church's relationship with and response to the larger world of human history. The course will culminate with an examination of the Church in the Modern World as explicated in current teachings and statements.

Christian Lifestyles (12)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

This course is a study of lifestyles, notably the single, married, vowed and ordained lifestyles. Each is presented to the students as a possible vocation for them to consider in planning their futures. Emphasis is given to the married lifestyle and the demands that are present within this vocation. The elements needed for a happy and a God-filled marriage are discussed. Issues regarding married life, family life, sexuality, and birth control are presented according to the official teaching of the Catholic Church.

Social Justice (12)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

This course presents the Seven Key Themes of Catholic Social Teaching defined by the National Conference of Catholic Bishops and applies these principles to current issues relating to human rights, welfare, and dignity worldwide. It considers the consequences of the actions of individuals, communities, and nations in the broader world.

ENGLISH

The English department strives to meet students where they are and challenge them to achieve. The four-year program includes courses to help students sharpen their communication skills (listening, speaking, and writing), improve their research strategies (utilizing resources and technology), and strengthen their abilities to read well and critically analyze fiction, nonfiction, drama, and poetry representing diverse cultures, issues, and ideas – all competencies lifelong learners must possess to succeed.

Literature and Composition 1 (9)

Credit: 1.0 credit - two semesters

Prerequisites: none

Required

Students develop and review language skills in grammar, vocabulary, elements of research, oral presentation, and the writing process--including paragraph development and the organization of narrative and expository multi-paragraph essays. They also read various examples of short stories, poems, essays, novels, plays (including Shakespeare) and selections from world mythologies. Students are placed in the appropriate level of this course based on analysis of standardized test scores and recent classroom performance.

Reading Strategies (9)

Credit: 1.0 credit - two semesters

Prerequisites: Departmental placement

Required for some students

Reading competency is a crucial skill for success in the 21st Century. The Reading Strategies Course is designed to help select students increase reading proficiency. This course will employ best practices in literacy acquisition through a variety of media.

Literature and Composition 2 (10)

Credit: 1.0 - two semesters

Prerequisites: Literature and Composition 1

Required

Students continue exploring the process of writing through grammar review as needed, vocabulary enrichment, and using the process approach to write persuasive paragraphs, expository and narrative multi-paragraph essays and some literary analysis. The literature studied includes short stories, poetry, novels, drama (including Shakespeare), and non-fiction works. Students refine their oral presentation and library research skills by producing a research project. Students are placed in the appropriate level of this course by their current English teacher in collaboration with other members of the English department.

American Literature (11)

Credit: 1.0 credit - two semesters

Prerequisites: Literature and Composition 1; Literature and Composition 2

Required

Students study the history and background of American Literature through a variety of genres. They continue to use the process approach to writing essays and literary analysis, and expand on research skills as learned as freshmen and sophomores by writing an individual research paper. Vocabulary is stressed as students prepare for college entrance examinations. Students are placed in the appropriate level of this course by their current English teacher in collaboration with other members of the English department.

Advanced Placement (AP) Literature and Composition (11)

Credit: 1.0 credit - two semesters

Prerequisites: Departmental approval

College credit and/or advance placement are available through the Advanced Placement testing program

This college level course prepares exceptional English students to take the AP Literature and Composition Exam in May. Students write intensively as a response to extensive reading of all literary genres from a variety of time periods and cultures. Students demonstrate critical and analytical thought, participate in frequent class discussions and projects, and use the process approach to write essays and an individual research paper.

World Literature (12)

Credit: 1.0 credit - two semesters

Prerequisites: Literature and Composition 1, Literature and Composition 2, and American Literature Required

This course takes a chronological approach to world literature with a concentration on British lit. With continued emphasis on vocabulary development and grammar, students use the process approach to write a variety of multi-paragraph essays. Students continue to review and improve research skills through oral presentation and a multi-genre research project. Students are placed in the appropriate level of this course by their current English teacher in collaboration with other members of the English department.

Advanced Placement (AP) Language and Composition (12)

Credit: 1.0 credit - two semesters

Prerequisites: Departmental approval

College credit and/or advance placement are available through the Advanced Placement testing program

This college level course prepares exceptional English students to take the AP Language and Composition Exam in May. The course further develops students' abilities as skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and as skilled analysts and writers using all rhetorical strategies. Readings focus on nonfiction works. Students learn to integrate college-level vocabulary and a variety of rhetorical devices into their own writing.

Creative Writing (10, 11, 12)

Credit: 0.5 credit - one semester

Prerequisites: None

In this course, students explore poetry, creative nonfiction, and short stories by writing on an individual, group, and class level. Students write informally every class, learn to experiment with word choice and imagery, and develop characters and their back-stories. Students use the peer editing process to produce portfolio-worthy pieces.

SOCIAL STUDIES

The Social Studies Department strives to distinguish the connections between different peoples and cultures throughout history. Students are given the opportunity to develop their critical and analytical thinking skills.

World History (9)

Credit: 1.0--two semesters

Prerequisite: none

Required

This course will introduce students to the contributions of world cultures upon the scope of human history, beginning with the prehistoric period and extending through the formation of Western Europe. Students will learn about the impact of culture, geography, religion, and government on history as well as today's world. Students are placed in the appropriate level of the course based on analysis of standardized test scores and recent classroom performance.

Modern History (10)

Credit: 1.0--two semesters

Prerequisite: none

Required

Topics in the history of human civilization will be continued in this course. The major areas of study will focus on world civilizations entering modernity, beginning with the European Renaissance and extending through modern times. While most of this course is influenced by the rise of Western Civilization it will also include the contributions of world cultures. Students are placed in the appropriate non/Western culture level of the course by their current history teacher in collaboration with other members of the social studies department.

American History (11)

Credit: 1.0--two semesters

Prerequisite: none

Required

The American history course is divided into two semesters of study. The singular objective of the course is to help students understand present-day history through a study of major events in the development of the United States. The first semester covers the Colonial Period to the Civil War and the second semester The Civil War to the 20th century. Students will also study the United States and Missouri Constitution. Students are placed in the appropriate level of this course by their current history teacher in collaboration with other members of the social studies department.

ACC American History (11)

Credit: 1.0--two semesters

Three hours credit per semester available through St. Louis University

Prerequisite: Departmental recommendation; a 3.0 cumulative non-weighted GPA is required for colleges credit registration

The ACC American History course is open to students who have demonstrated excellence in the study of history. The emphasis will be on the political, economic, and social development in the United States from the colonial period to the present.

ACC Western Civilization (12)

Credit: 1.0--two semesters

Three hours credit per semester available through St. Louis University

Prerequisite: Departmental recommendation; a 3.0 cumulative non-weighted GPA is required for colleges credit registration

Elective

This course is designed as college credit course in European history. The course includes a survey of the political, social, religious, commercial, industrial movements in the history of Western Civilization.

Great Events of the 20th Century (10, 11, 12)

Credit: 0.5--one semester

Prerequisite: none

Elective

This elective course presents selected events--explored from historical and cultural perspectives--which have occurred since the beginning of the 20th century. Topics will include a major study of the Vietnam War and the Holocaust and its impact on the United States and the world into the 21st century.

Current Issues (10, 11, 12)

Credit: 0.5--one semester

Prerequisite: none

Elective

In this course students have the opportunity to examine and discuss major political, economic, and social events of local, national, and international importance. Special emphasis will be placed upon the myths and realities of the developing contemporary world. Each student will have access to daily newspapers and weekly news magazines.

Psychology 1 (11, 12)

Credit: 0.5--one semester

Prerequisite: none

Elective

Psychology 1 is a general survey class intended to give students an overview of psychology focusing on the study of human behaviors. The emphasis is on understanding a wide variety of topics, including the development of behavior, the significance of heredity and environment, personality development, learning style variation, stress and its effects, and mental health.

Psychology 2 (11, 12)

Credit: 0.5--one semester

Prerequisite: Psychology 1 and psychology teacher recommendation

Elective

Psychology 2 is a continuation of Psychology 1, providing a more in-depth study of human behavior and covering such topics as conditioning, personality theories, the brain, and altered states of consciousness. Guest speakers, demonstrations, student questionnaires, and inventories help to demonstrate the practical side of psychology and its role in our daily lives.

Diversity in America (11,12)

Credit: 0.5 – one semester

Prerequisite: none

Elective

“ America is a nation of nations, made up of people from every land ... Our diversity is not a source of weakness; it is a source of strength, it is a source of our success.”

Former U. S. Secretary of State Colin Powell

In this elective course students have the opportunity to examine and discuss America’s diversity and how we as Americans view ourselves – as different cultures coming together to create a common culture, as a group of various cultures that keep their individual characteristics or a mixture of both analogies. Equal time will be given to the cultures and traditions of African Americans, Asian Americans, European Americans, Hispanic Americans, Native Americans and Pacific Islander Americans.

MATHEMATICS

The Math Department strives to meet the needs of each student by providing courses that allow the student to develop a competency in mathematical skills, as well as in critical and analytical thinking.

Pre-Algebra (9)

Credit: 1.0 – first semester

Departmental placement in collaboration with the learning consultant

Required for some students

This course is designed to reinforce the concepts of arithmetic and to provide continuous and consistent skill development. Students in this course will also register for an Algebra 1 class that will be taught during the second semester.

Algebra 1 (9)

Credit 1.0 - second semester

Departmental placement in collaboration with the learning consultant

Required

This course includes the following topics: the real number system, equation solving (both linear and quadratic), inequalities, polynomial operations, graphing, factoring, simple probability, and practical applications. Major concepts are used continually as the students proceed from simple to more complex algebra

Algebra 1 (9)

Credit: 1.0--two semesters

Departmental placement

Required

This course includes the following topics: the real number system, equation solving (both linear and quadratic), inequalities, polynomial operations, graphing, factoring, simple probability, and practical applications. Major concepts are used continually as the students proceed from simple to more complex algebra. Students are placed in the appropriate level of this course based on analysis of standardized test scores and recent classroom performance.

Geometry (9, 10, 11)

Credit: 1.0--two semesters

Prerequisite: Algebra 1, departmental placement

Required

This course presents a development of a mathematical system by stressing the basic structure of geometry and developing formal proofs through logical reasoning. Algebraic methods are applied to solving problems. Topics include: lines, angles, triangles, polygons, circles, area, volume, and irrational numbers. Students are placed in the appropriate level of this course by their current teacher in collaboration with other members of the mathematics department.

Algebra 2 (10, 11, 12)

Credit: 1.0--two semesters

Prerequisite: Successful completion of Algebra 1 and Geometry with departmental placement

Required for students who have not completed their math credit requirement

This course includes a review of the topics of Algebra 1. New topics include: rational numbers and expressions, systems of equations, linear relations, and irrational numbers. Students are placed in the appropriate level of this course by their current teacher in collaboration with other members of the mathematics department.

Advanced Algebra 2 (10, 11)

Credit: 1.0--two semesters

Prerequisite: Successful completion of Algebra 1 and Geometry with departmental placement

Students will work with the TI-82, TI-83, or TI-84+ graphing calculators in this class.

This course includes a review of the topics of Algebra 1. Also included is a detailed study of factoring, exponents, and imaginary numbers as well as algebraic and graphical solutions of equations and

inequalities. (**Note:** This course is designed to prepare students for the Pre-Calculus and Calculus sequence and may be taken concurrently with Honors Geometry *with departmental approval*).

Trigonometry (11, 12)

Credit: 0.5 --one semester

Prerequisites: Algebra 2 with a grade of C or better and department approval

Elective

Students will work with the TI-82, TI-83, or TI-84+ graphing calculators in this class.

This course is designed to reinforce algebra skills incorporated in a thorough study of the concepts of trigonometry. Topics to be covered include: definitions of basic trigonometric functions, triangle applications, identities, solving trigonometric equations, angle formulas, graphs of trigonometric functions, and inverse functions.

Algebra 3 (11, 12)

Credit: 0.5 credit--one semester

Prerequisites: Algebra 2 with a grade of C or better and departmental approval

Elective

Students will work with the TI-82, TI-83, or TI-84+ graphing calculators in this class.

This course is a continuation of Algebra 2. The topics included are: exponential and logarithmic functions, theory of functions, conic sections, quadratic equations, matrices, and rational expressions.

ACC Pre-Calculus (11-12)

Credit: 1.0--two semesters

College credit available through Missouri Baptist University. 3.0 cumulative non-weighted GPA required for college credit registration

Prerequisites: Advanced Algebra 2 and teacher recommendation.

Elective

Students will work with the TI-82 and TI-83, or TI-84+ graphing calculators in this class.

The topics included in this course are: absolute value equations and inequalities, trigonometry, analytic geometry, conic sections, complex numbers and polar coordinates, relations and function arithmetic, composition of functions, and sequences and series, as time allows. The course is devoted to analytic concepts and methods to be used as background for calculus.

ACC Calculus (12)

Credit: 1.0—two semesters

College credit available through Missouri Baptist University. 3.0 cumulative non-weighted GPA required for college credit registration

Prerequisites: Pre-Calculus with a grade of C or better and department recommendation

Elective

Students will work with the TI-82, TI-83, or TI-84+ graphing calculators in this class.

This course will cover the basic concepts of calculus including: limits, derivatives, applications of derivatives, integration, area under a curve, and volumes of revolution. This course is taught at a college level for topics, depth of analysis, student work, and participation.

Statistics (12)

Credit: 0.5 – one semester

Prerequisite: Departmental approval

Elective

This course will cover the basic concepts of statistics including sample space, distributions, mean, median, mode, and standard deviation.

SCIENCE

The goals of the Science Department are to provide opportunities for the student to be successful in acquiring and applying scientific knowledge and methods, to encourage students to keep an open, inquiring mind about nature, and to critically analyze problems in nature.

Physical Science (9,10)

Credit: 1.0 credit – two semesters

Prerequisite: None

Required

Students will learn the basic principles of physical science through the use of the scientific method and the fundamental concepts found in chemistry and physics. The course will cover topics such as motion and energy, sound and light, characteristics and properties of matter, simple chemical reactions, and the use of chemistry in industry. Concepts will be presented in a laboratory-lecture format.

Biology 1 (10)

Credit: 1.0 credit – two semesters

Prerequisite: Physical Science and departmental placement

Elective

Students learn the basic principles of science and cover general biology principles. Concepts include: scientific method, graphing, measurements, metric, basic chemistry, cells (structure, function, organelles), cell's environment (diffusion, osmosis, transport), cell division (mitosis, meiosis), DNA and protein synthesis, principles of heredity, classification, and evolution. Concepts will be presented in a laboratory-lecture format. Students will be placed in the appropriate level of this course by their current teacher in collaboration with other members of the science department.

Chemistry (10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: Physical Science and departmental placement

Elective

Students study how elements found in nature affect our daily lives. Topics include composition and structure of substances, periodic properties of elements, chemical reactions and calculations, thermo chemistry, chemical equilibrium, kinetic reactions, among other chemistry concepts. Material is presented through lecture, lab experiences, and computer activities. Students are placed in this class by their current science teacher in collaboration with other members of the science department.

Chemistry in the Community (10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: Biology 1 and departmental placement

Elective

This course covers many important concepts of Chemistry in the Community (ChemCom) using simple terminology and limited mathematics applications. The course is designed to bring a practical understanding of everyday chemical phenomena. Lab work is an integral part of this course. Students are placed in this class by current science teacher in collaboration with other members of the science department.

Environmental Science (10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: Biology 1 and department recommendation

Elective

Students will study ecology (the study of relationships between living things and their surroundings) and also will look at the human impact on the environment. Important concepts of ecology include: food chains, food webs, energy flow, symbiotic relationships, population dynamics, abiotic factors such as soil, water, air, and weather and their impact on the biotic world. Students will also investigate environmental issues such as air pollution, water pollution, solid waste disposal, soil

conservation, and recycling. Student placement in this class is at the recommendation of the current science teacher.

Biology 2 (11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: Biology 1 and departmental recommendation

Elective

This course is a continuation of Biology 1. Classification and evolution are reviewed followed by a survey of the major phyla beginning with the bacteria and ending with the vertebrates. A discussion of the interrelationships between organisms and their environment during their constant struggle to survive and maintain the species is emphasized in each phylum. Concepts will be presented in a laboratory-lecture format. Students will be placed in this class at the recommendation of their science teacher.

Anatomy & Physiology (11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: B or better in Biology 1 (honors, standard) and department recommendation

Elective

This is an advanced biology course for students who are interested in an in-depth study of human biology. This course surveys the various systems of the body with emphasis on structure and function in health and disease. Teachers use a laboratory-lecture format. Student placement in this class is at the recommendation of the current science teacher.

Physics (11, 12)

Credit: 1.0 credit – two semesters

College credit: 4 hours credit per semester available through St. Louis University

Advanced college placement opportunity available through the AP testing program

Prerequisites: Concurrent enrollment in Algebra 3 or Trigonometry and chemistry teacher's recommendation. 3.0 cumulative non-weighted GPA required for college credit registration

Elective

Physics is the study of the relationship of matter and energy. This course covers mechanics, thermodynamics, light, sound, electricity, magnetism, modern physics, and relativity. Trigonometry will be used often in this class. Methods include lecture, as well as use of audio-visual media, computers, and laboratory. This course is taught at a college level for topics, reading, and student participation.

Chemistry 2 (11, 12)

Credit: 1.0 credit – two semesters

College credit: 4 hours credit per semester available through St. Louis University

Advanced college placement opportunity available through the AP testing program

Prerequisites: Chemistry teacher's recommendation. 3.0 cumulative non-weighted GPA required for college credit registration

Elective

This course covers the topics of periodic trends, nuclear chemistry, stoichiometry, states of matter, thermo chemistry, kinetics, equilibrium, acids, bases, and buffers, electrochemistry, and organic chemistry. Methods include lecture, as well as use of audio-visual media, computers, and laboratory. This course is taught at a college level for topics, reading, and student participation.

SPANISH

The Foreign Language Department offers four-year program in Spanish. These are elective courses, but two years of foreign language are **STRONGLY RECOMMENDED** for students who plan to go to a four-year college or university. Most four-year colleges require two high school credits in the same foreign language. A second language can also be useful for a career in law, in health-related fields, international business, journalism, social work, secretarial positions, or with travel agencies and airlines. Among other things, the study of languages fosters an attitude of respect for and an interest in other cultures, as well as an attitude of open-mindedness to world development.

SPANISH 1 (9, 10, 11)

Credit: 1.0 credit--two semesters

Prerequisite: None

In Spanish 1, students learn basic vocabulary in the context of dialogues and readings, and learn grammatical structures and patterns. Audio tapes/ CD's are used to aid in developing proper pronunciation. The four skills of listening, speaking, reading and writing are developed. Students also learn about Hispanic culture from readings in the text and from supplementary visual aids.

SPANISH 2 (10, 11, 12)

Credit: 1.0 credit--two semesters

Prerequisite: Spanish 1 and department recommendation

In Spanish 2 additional grammatical concepts are introduced and applied. Vocabulary is expanded and used in various situations. Audio aids, as well as videos, continue to be used. The study of Hispanic culture is also continued. Supplementary readers as well as newspapers and magazines are used to increase reading skills.

ACC SPANISH 3 (11, 12)

Credit: 1.0 credit--two semesters

Level: College Credit (5 credit-hours/year option for eligible students, through UM-St. Louis)

Prerequisite: Spanish 2, a 3.0 cumulative GPA out of 4.0 non-weighted are required for college credit, and recommendation of Spanish teacher.

NOTE: Students not interested or eligible for college credit may take Spanish 3 with teacher recommendation. These students will not register for College Credit in the fall, but will be required to complete all work required of ACC students in the course.

ACC Spanish 3 is for those students who wish to build on the skills that they have mastered in Spanish 1 and 2. The classes are conducted primarily in Spanish. New grammatical structures are introduced. Written compositions and appreciation of literature are emphasized. Readings include selections from Spanish magazines and newspapers, poetry, and short stories.

ACC SPANISH 4 (12)

Credit: 1.0 credit--two semesters

Level: College Credit (5 credit-hours/year option for eligible students, through UM-St. Louis)

Prerequisite: ACC Spanish 3, a 3.0 cumulative GPA out of 4.0 non-weighted are required for college credit, and department recommendation

NOTE: Students not interested or eligible for college credit may take Spanish 4 with teacher recommendation. These students will not register for College Credit in the fall, but will be required to complete all work required of ACC students in the course.

In ACC Spanish 4 all elements of Spanish grammar will be expanded and practiced. The classes are conducted primarily in Spanish, and students will have extensive practice in reading and writing. Emphasis will be placed on famous Spanish authors as the students read selections from poetry, short stories, and plays.

FINE ARTS

The goals of the Fine Arts Program are to inspire a love of the Arts, develop the skills needed for performance, and help students gain an understanding of the relationship between the arts and human nature. One credit of Fine Arts is required for graduation.

MUSIC

Beginning Band (9, 10, 11)

Credit: 1.0 credit – two semesters

Prerequisites: none

This course is designed for students who have no previous experience playing a standard concert band instrument. Students will be introduced to reading music, standard musical terms and concepts, basic theory, as well as technical instruction on their particular instrument.

Concert Band (9, 10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: Recommendation of the music instructor.

This course is designed for students who have previous experience playing a standard concert band instrument. Students perform music of a variety of styles and time periods, continue with study of basic theory and technical instruction on their particular instrument, as well as develop proper ensemble playing style with an emphasis on balance and intonation. ***Concert Band is a performing group and members are required to participate in all scheduled performances. In addition members are required to purchase the proper concert attire.***

Chorus (9, 10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: none

Students participating in this class will develop their musical knowledge and skills. Proper tone production, breathing technique, blend, intonation, style, and interpretation are emphasized. Basic music theory and sight-singing skills are also taught. In addition to performing at all scheduled school concerts, this group may represent Trinity in community activities. Members of this choral group will be required to purchase proper concert attire.

Concert Choir (9,10,11,12)

Credit: 1.0 credit – two semesters

Prerequisites: Recommendation of the music instructor

Students enrolling into the Concert Choir may be subject to an audition to complete the registration process. Choir members must possess advanced vocal skills to meet the curriculum requirements of the course. Students participating in this class will further enhance their musical knowledge and skills. In addition to performing at all scheduled school concerts, this group may represent Trinity in community activities. ***Concert Choir is a performing group and members are required to participate in all scheduled performances. In addition members are required to purchase the proper concert attire.***

Rhythm and Rhyme Through Time (10, 11, 12)

Credit 0.5 – one semester

Elective

Students will study a variety of musical styles, building an appreciation for music industry icons. Topics will include listening, seeing and understanding the production of rock, pop, country, rhythm and blues, jazz, folk, gospel, and classical styles of music. Secondary topics will explore history, notation, rhythm, modern technology, recordings, and instruments. Students may be required to attend a variety of musical performances.

ART

The Art Department provides courses for both beginning and advanced students. A four-year program is available.

Foundations of Art (9, 10, 11, 12)

Credit: 0.5 credit—one semester

Prerequisites: none

Elective

This course is a survey of art theory and history. It provides students with studio experience in drawing and in two- and three-dimensional design. Students will develop critical, creative, and representational skills through the use of sketchbook projects, in class projects, quizzes, and worksheets. A multitude of art mediums will be used including painting, drawing, printmaking, sculpture, and clay.

Design (10, 11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art

Elective

This course focuses on methods of composition in several different media. Students build skills of design through the seven elements of design; line, shape, value, color, texture, space, and balance.

Drawing (10, 11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art

Elective

Student skills are developed through work in still life portraiture, self-portrait, landscape drawing in a variety of media including charcoal, pen & ink, pencil, pastels, and markers. Students will build on basic principles and elements of drawing such as line, value, shape, form, color, and texture. A sketchbook is required.

Construction Sculpture (11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art and departmental approval

Elective

Students will study the elements and principles of three-dimensional design as they build and construct in a variety of media including wood, slate, paper mache, found objects, wire, clay, and plaster. Students will explore the hand-building techniques of carving, casting, and molding.

Painting (11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Three semesters of Art including Foundations of Art, and Drawing, and department approval

Elective

Students will develop skills with the brush and palette knife while painting. Media will include watercolor, acrylics, tempera, and possibly oil. A variety of painting techniques will be explored. A study of painting history will also be included in this course.

Advanced Art (11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Two semesters of Art, including Foundations of Art, and departmental approval

Elective

This course is for students who are thinking of art as a career. Advanced drawing, illustration, and portraiture will be stressed. Students will work with a variety of media and subjects commonly required for application to most programs in art. Students will produce an individual portfolio of their work.

Graphic Design (11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art, Drawing, and departmental approval

Students will concentrate on graphic design skills, using the Macintosh Lab for projects. Students will learn drawing, painting, and typography techniques on are programs such as Photoshop and Illustration. Students will learn how a commercial artist approaches design concepts for clients. Access to a digital camera is required for this class.

DRAMA

Drama (10, 11, 12)

Credit: 0.5 credit - one semester

Prerequisites: None

This course introduces basic theatrical principals of stage performance. Students learn theater vocabulary, warm-up, relaxation, and breathing techniques, blocking, enunciation, and voice inflection. They practice role-play and pantomime to explore the use of voice, body, and space in developing character. Students are expected to research scripts, memorize lines, and perform skits, monologues, scenes, and short plays. Students will also study film through a chronological approach including silent, foreign and art film. Students will be assigned one project for the semester. They will be required to attend an approved live stage performance and write a critique based upon their experience.

MEDIA

Introductory Multimedia (10, 11, 12)

Credit: 0.5 - one semester

Prerequisite: none

Elective

Students will learn fundamental skills in both electronic and print journalism. Instruction in digital imaging, both still and video, will lead to short project assignments. Desktop publishing software and desktop editing software will be a part of the instructional orientation. Credit is weighted heavily toward project grading.

Multimedia Video Production (11, 12)

Credit: 0.5 - one semester

Prerequisite: Introductory Multimedia, Departmental approval

Elective

The course is an application in electronic media. Students will learn and master the essentials of digital video photography and video editing. Working primarily on the Macintosh platform, students will shoot, edit, and produce material for broadcast and recorded use. Within the framework of this course, allied skills in desktop audio and desktop animation will be available to those students showing a particular desire and aptitude to work in those areas. Credit is heavily weighted toward project grading.

Students Publications (10, 11, 12)

Credit: .5 - one semester

Prerequisite: Departmental approval

Elective

A projects class, students will be required to take their involvement with desktop production to a higher level. The class will be required to produce and support real time projects such as Yearbook, Newspaper, Senior Video, Trinity Web site, Three in the Morning, etc as well as providing content for each of these areas. Students will work in the Macintosh environment. An emphasis will be placed on "team-built" projects, including both design and writing for publication. Grading will be based on portfolios generated throughout the course. The course will prepare students for taking their interest in multimedia to the next level, collegiate or professional. Students may take an additional semester with prior approval.

Web Page Design (11, 12)

Credit: 0.5 credits - one semester

Prerequisite: none

Elective

The emphasis in this class will be the design of a functioning web page. Students will be introduced to software designed to create web pages. Special attention will be placed on the design, readability, and functionality of a website. This class will approach web design in a primarily 'non-code' fashion. Students may be asked to generate content that supports the Trinity web site. The final exam project will be a student-produced web page.

PRACTICAL ARTS

Trinity Catholic High School's Practical Arts Program is made up of three departments: Business, Family and Consumer Sciences (FACS), and Industrial Technology Education (ITE).

BUSINESS

The Business Department offers courses to students who wish to have some entry-level business skills upon graduation. Many courses also provide a background for students who wish to prepare for college coursework in business.

Personal Finance (11, 12)

Credit: 0.5 credits – one semester

Prerequisite: none

Required

This business course is designed to teach students business and life skills. The students will learn the basics of money management including basic banking, budgeting, investing, spending wisely, and avoiding the dangers of credit. They will also learn proper behavior in a professional setting, how to be a member of a team, and explore career options.

Keyboarding (9, 10)

Credit: 0.5 credits - one semester

Prerequisite: Timed Writing Test with a score of 35 wpm or less with less than 90% accuracy.

Elective

Here is where you start. Keyboarding is the basic building block for all computer coursework. This beginning course focuses on developing basic keyboarding techniques using the touch method. Emphasis is on developing speed and accuracy. Students will learn of to key, correct, proofread for accuracy, and print personal and business applications—MLA, academic reports, business reports, and letters.

Microsoft Office (9, 10, 11, 12)

Credit: 0.5 credits - one semester

Prerequisite: none

Elective

This is a survey course that will cover the Microsoft Office 2007 suite of software. The following programs will be covered in this class: Microsoft Word 2007, Excel 2007, and Power Point 2007. In addition to learning the individual programs, students will also learn to integrate the office applications with each other and with the Internet. The final exam will consist of a series of exercises in which students demonstrate the skills learned in class. *This course is intended for students already proficient in keyboarding.*

Accounting 1 (11, 12)

Credit: 0.5 credit – one semester

Prerequisite: none

Elective

This course is for students interested in the daily activities of owning or managing a business' finances. The scope of the course covers the first 5 steps in the accounting cycle. Students will learn to classify accounts, analyze transactions, record in the general journal, post to the ledger, and prepare a trial balance.

Accounting 2 (11, 12)

Credit: 0.5 credit – One semester

Prerequisite: "C" or better in previous accounting class

Elective

This course is for students interested in the daily activities of owning or managing a business' finances and who have successfully completed Introduction To Accounting. The scope of the course completes the accounting cycle begun in Introduction to Accounting. Students will learn to prepare financial statements and record adjusting and closing entries. A simulation will be used so students will have a realistic view of the entire accounting cycle.

Business Law (11, 12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

Enjoyable, interesting, practical—all three can describe Business Law. This is a course that is oriented to the individual dealing with laws that could affect a number of areas of everyday life—in contract making, rights of minors, criminal law, and more. Guest speakers such as lawyers, court professionals, and business and law enforcement professionals may highlight this class.

FAMILY AND CONSUMER SCIENCE

The Family and Consumer Sciences (FACS) Department offers courses for all students interested in learning practical life skills related to family living, food and nutrition, and fashion and sewing. Enrollment may need to be limited due to space and equipment. In most instances preference will be given to upper classmen.

Home and Design (10,11,12)

Credit: 0.5 credits - one semester

Prerequisite: none

Elective

This course brings the students into the world of home ownership. It begins by discussing the pros and cons of home ownership, choosing a community and a neighborhood. Students explore the evolution of home exteriors by studying different architectural styles. The course concludes with the home's interior. Every aspect of home interiors is covered—furnishings, safety, lighting, appliances, and interior design.

Foods and Cooking 1 (11,12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

Maximum Enrollment 18 students per section

Foods and Cooking 1 is recommended for students interested in the basic knowledge of nutrition and food preparation. Students will learn the important nutrients needed for healthy living, the food groups, and will create their own food guide pyramid. This course helps students learn about such topics as sanitation and safety tips in the kitchen, table settings, and dining etiquette. Preparation in the foods lab will teach students how to measure, read, follow, and prepare a simple recipes. This course has written work and research as well as lab time. Students will be required to make a minimum purchase (\$10.00) for kitchen supplies at the beginning of the semester.

Foods 2 and Culinary Arts (11,12)

Credit: 0.5 credits – one semester

Prerequisite: Foods and Cooking I or Foods and Nutrition 1

Elective

Maximum Enrollment 18 students per section

Foods 2 and Culinary Arts is a continuation of the skills learned and practiced in Foods 1. Students will cook foods from around the world, cook foods from around the regions of the United States, learn the art of food presentation, will practice exquisite table setting and

practice more complicated baking and beginning cake decorating skills. Students will also examine a career in the culinary industry, skills needed, and job opportunities. This course has written work and research as well as lab time. Students will be required to make a minimum purchase (\$10.00) for kitchen supplies at the beginning of the semester.

Sewing (10,11,12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

Maximum Enrollment 18 students per section

Sewing is a course designed to teach students basic skills of hand and machine sewing. Students will learn to identify sewing tools, the parts of a sewing machine and parts of a serger. Students will use hand-sewing techniques to sew on buttons and create an embroidery project. After learning about patterns, fabrics and notions they will learn how to use a sewing machine, serger and monogram machine. Machine projects will include a placemat, apron, pajama pants, and a pillowcase.

Each student will be required to purchase a good pair of sewing scissors. Students will also be responsible for purchasing patterns and fabric for assigned sewing projects.

World of Fashion (10,11,12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

This course provides an overview of all elements relating to clothing fashion. The course begins by looking at influences on clothing; why we wear what we wear. It continues with a look at the history of fashion from Adam and Eve to present day clothing. Students will also explore the areas of fashion designers, the fashion industry, textiles and the elements and principles of design. The course will conclude with a look at all the many career opportunities in the world of fashion.

Child Development and Parenting 1 (11,12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

This course focuses on the growth and development of children. Students learn about the development of a child from prenatal and birth stages up to one year of age. Included is an extensive unit on conception, prenatal development and care, and the birth of a child, as well as parenting readiness and responsibilities.

Child Development and Parenting 2 (11,12)

Credit: 0.5 credits – one semester

Prerequisite: Child Development 1

This is a continuation of the study of a child's physical, emotional, social, and intellectual growth and development from age 1 to 12. Special topics will be covered such as health and safety issues, child abuse, physical abilities, understanding of and care for children with physical disabilities, and careers in childcare. In addition, students will be required to care for Real Care baby at home as part of their course grade. A passing grade in caring for the Real Care Baby is required to receive credit in this class.

INDUSTRIAL TECHNOLOGY

The Industrial Technology Education (ITE) Department provides courses which prepare students for careers in Computer Assisted Design (CAD), engineering, and architecture.

Mechanical Drawing 1 (10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisite: Proficiency in Math, departmental approval.

Elective

This course is a full-scale study into the mechanical area of engineering drawing with a brief introduction to the field of architectural drawing. The course includes computer assisted drawing (CAD) technique, line work, text styles and placement, various types of pictorial drawings, orthographic projection, sectioning, auxiliary views, and dimensioning. Opportunities for exploratory, individualized work in architectural drafting will be available. The entire course will be executed on computers in AutoCAD LT.

Mechanical Drawing 2 (11, 12)

Credit: 1.0 credit – two semesters

Prerequisite: Mechanical Drawing 1, departmental approval.

Elective

This is an in-depth study of the skills, techniques, and applications mastered in Mechanical Drawing 1. Advanced CAD technique, problem solving, threads and fasteners, industrial components, and some architectural work will be included. The entire course will be executed on computers in AutoCAD LT.

Architectural Drafting and Design 1 (10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisite: Proficiency in Math, departmental approval.

Elective

This comprehensive course covers various styles of architecture and residential architectural drafting in CAD. Topics include architectural history, CAD technique, text styles and placement, dimensioning, individual room design, layout work, floor plans, elevations, sections, building construction, perspective drawing, and landscaping. The entire course will be executed on computers in AutoCAD LT.

Architectural Drafting and Design 2 (11, 12)

Credit: 1.0 credit – two semesters

Prerequisite: Architectural Drafting 1, departmental approval

Elective

The work of this advanced course encompasses an in depth study of the skills and techniques mastered in Architectural 1. In addition, plot, survey, and landscape plans will be studied, as well as sections, floor framing, wall framing, roof framing, electrical conventions, plumbing, heating, and air conditioning. Architectural model building will be integrated into the curriculum during the second semester. The entire course will be executed on computers in AutoCAD LT.

PHYSICAL EDUCATION

The Physical Education Department strives to help students learn different sports, physical activities, and their values. It is also the goal of the PE department to help students learn to appreciate the use and enjoyment of leisure time.

Fundamentals of Physical Education (9)

Credit: 0.5 credit – one semester

Prerequisite: None

Required

This class must be taken during freshman year. Focusing on the basics for a healthy lifestyle, this class will teach the essential motor skills to provide students with a foundation for life-long health. Various sports and activities will be covered along with rules, strategies, and officiating fundamentals. Students will be required to purchase TCHS shorts and shirt through the Trinity bookstore that will be worn as a PE uniform.

Health (9, 10)

Credit: 0.5 credit – one semester

Prerequisite: None

Required

This course familiarizes students with a wide variety of health problems and solutions that are important for their physical and mental welfare. Nutrition, lifestyle factors, wellness, and safety issues will be addressed.

Volleyball/Badminton/Aerobics (10,11,12)

Credit: 0.5 credit – one semester

Prerequisite: Fundamentals of P.E.

Elective

This class is going to spend the semester focused on these 3 sports only. Time will be spent learning the basic fundamental skills and strategies including an introduction to weight training, scorekeeping, officiating, and coaching tactics for the sports. Students will have the opportunity to learn new games and skills, and also be proficient enough to take skills outside of the classroom. Students will be required to dress out for class.

Football/Basketball/Team Handball (10,11,12)

Credit: 0.5 credit – one semester

Prerequisite: Fundamentals of P.E.

Elective

This class is going to spend the semester focused on these 3 sports only. Time will be spent learning the basic fundamental skills and strategies including an introduction to weight training, scorekeeping, officiating, and coaching tactics for the sports. Students will have the opportunity to learn new games and skills, and also be proficient enough to take skills outside of the classroom. Students will be required to dress out for class.

Soccer/Softball/ Floor Hockey (10,11,12)

Credit: 0.5 credit – one semester

Prerequisite: Fundamentals of P.E.

Elective

This class is going to spend the semester focused on these 3 sports only. Time will be spent learning the basic fundamental skills and strategies including an introduction to weight training, scorekeeping, officiating, and coaching tactics for the sports. Students will have the opportunity to learn new games and skills, and also be proficient enough to take skills outside of the classroom. Students will be required to dress out for class.

NON-DEPARTMENTAL COURSE

Bridges (9)

Credit: 1.0 credit -- two semesters

Prerequisite: none

Required

This course is designed to develop and strengthen the academic, personal, and social skills necessary for a successful transition to high school. Students will be introduced to helpful organizational and time management skills, study skills, note-taking skills, and test-taking skills. Students will have an opportunity to develop a personal resume, a four-year high school plan, including college and career choices and goal setting. Students will also have opportunities to discuss personal responsibility, character, and accountability, and the development of community.