



2017-2018
**Trinity Catholic High
School**
COURSE CATALOG

Course Listings
Course Descriptions
Graduation Requirements

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COURSE SELECTION PROCESS FOR THE 2017-2018 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 = \$250.00

- ⇒ The registration fee is due by February 24, 2017.
- ⇒ Registration is not complete and course requests will not be processed 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 Worksheet
- parent review of Course Selection Form and approval
- registration fee paid

DEADLINE

Course Selection Worksheets are due no later than February 21, 2017. Student must complete on-line registration in Skyward by February 19, 2017. Final Course Selection Forms with parent/guardian signatures are due February 24. The non-refundable registration fee is due by February 24, 2016. Registration is not complete and course requests will not be processed until the registration fee is paid. Fees paid after February 24 will include a \$15.00 late fee.

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 Worksheet reviewed by their advisor. The 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 and complete a student schedule.**

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. For this reason, alternates must 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 be made for academic reasons only. 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 4)?
2. What courses have prerequisites? For example, Architecture 1 is a prerequisite for Architecture 2.
3. What are my plans for after high school and how do they impact my schedule (refer to page 5)?

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.

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 and other students who have taken the class.
- Meet with your counselor.
- Have your advisor review your course selection 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 & Chemistry
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	0.5	credits	2 semesters)
	21.0	credits	
Electives ¹	10	credits	
TOTAL	31.0	credits	

¹ 2 units of foreign language are not required but strongly recommended

Freshmen

<input type="checkbox"/>	Religion	1.0 credit	(2 sem)
<input type="checkbox"/>	English	1.0 credit	(2 sem)
<input type="checkbox"/>	Phy.Ed. or Health	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"/>	Phy.Science	1.0 credit	(2 sem)
<input type="checkbox"/>	Bridges	0.5 credit	(1 sem)
<input type="checkbox"/>	Electives	2.0 credits	(4 sem)



Suggested Freshman Electives:

<input type="checkbox"/>	Spanish
<input type="checkbox"/>	Fine Arts
<input type="checkbox"/>	Health or Physical Education

Sophomore

<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"/>	Biology	1.0 credit	(2 sem)
<input type="checkbox"/>	Electives	3.0 credits	(6 sem)



Suggested Sophomore Electives:

<input type="checkbox"/>	Spanish
<input type="checkbox"/>	Fine Arts
<input type="checkbox"/>	Practical Arts
<input type="checkbox"/>	Physical Education
<input type="checkbox"/>	Health

Junior

<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"/>	Chemistry	1.0 credit	(2 sem)
<input type="checkbox"/>	Math	1.0 credit	(2 sem)
<input type="checkbox"/>	Electives	4.0 credits	(8 sem)



Suggested Junior Electives:

Check graduation requirements, prerequisites, & post-secondary requirements.

Senior

<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)



Suggested Senior Electives:

Check graduation and college admission requirements.

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*).

MISSOURI STATE COLLEGES

(see listing of colleges below)

English4

Math (Algebra I or higher)3

Social Studies3

Science*3

Fine Arts.....1

Electives**3

*Truman State University, Northwest Missouri State University and Southeast Missouri State require 3.0 Science credits.

**Truman State University requires 2.0 World Language credits.

(Electives from World Language and/or combinations of the core courses)

Missouri State Colleges/Universities

University of Central Missouri, Missouri Southern, Missouri State University, Missouri Western, Northwest Missouri State, Southeast Missouri State, Truman State University

UNIVERSITY OF MISSOURI COLLEGES

(see list below)

English4

Math (Algebra I or higher)4

Social Studies3

Science3

Fine Arts.....1

World Language.....2

University of Missouri Universities

University of Missouri-Columbia, University of Missouri-Kansas City, University of Missouri Science and Technology, University of Missouri-St. Louis

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.

College Credit – designed for eligible students who wish to dual enroll in courses for college credit through SLU, UM-St. Louis, Missouri Baptist, or Advanced Placement testing.

A 3.0 cumulative 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.

The Church – Jesus Christ’s Mission Continues (11)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

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

Principles of Morality – Life in Jesus Christ (11)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

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

Social Justice – Living as a Disciple of Jesus Christ in Society (12)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

The purpose of this course is to introduce students to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission.

Christian Lifestyles – Responding to the Call of Jesus Christ (12)

Credit: 0.5 credit - one semester

Prerequisites: None

Required

The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. In this course, students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

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. Teachers place students in the appropriate level of this course based on analysis of standardized test scores and recent classroom performance.

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' current English teachers place

them in the appropriate level of this course 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' current English teachers place them in the appropriate level of this course in collaboration with other members of the English department.

ACC Literature and Composition 3 (11)

Credit: 1.0 Credit – two semesters

Prerequisites: Departmental approval

College credit is available through St. Louis University's 1818 program.

This college level course is comprised of 2 semester courses: Advanced Strategies of Rhetoric and Research (ENGL 1900) and Conflict, Social Justice and Literature (ENGL 2250). The first semester focuses on the complex structures of language, including its logical and persuasive possibilities, analytical reading, critical thinking, and research methodology skills. The second semester introduces literary study within the context and theme of Cultural Conflict and Social Justice. Through the reading of a wide variety of genres - including drama, poetry, and fiction - the course engages students in literary ways of knowing. Methods include close reading, comparative textual analysis, and argumentative writing.

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 literature. 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' current English teachers place them in the appropriate level of this course in collaboration with other members of the English department.

ACC Literature and Composition 4 (12)

Credit: 1.0 credit - two semesters

Prerequisites: Departmental approval

College credit is available through St. Louis University's 1818 program.

This college level course is comprised of 2 semester courses: Faith, Doubt and Literature (ENGL 2350) and Technology, Media and Literature (ENGL 2650). The first semester introduces literary study within the context and theme of Faith and Doubt. The second semester introduces literary study within the context and theme of Technology and Media. This course engages students in literary ways of knowing through the reading of a wide variety of genres - including drama, poetry, and fiction. Methods include close reading, comparative textual analysis, and argumentative 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 to 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 will understand the importance of responsible citizenship and will gather a genuine appreciation for diversity. Students are given the opportunity to develop their reading, writing, and critical thinking skills along with their understanding human behavior.

World History 1 (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 Scientific Revolution. Historical interaction, through primary and secondary sources, is studied in order to trace the origins of modern institutions. 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.

World History 2 (10)

Credit: 0.5—one semester

Prerequisite: none

Required

Topics in the history of human civilization will be continued in this course. This chronicle of history will begin with the French Revolution and continue through the beginnings of the 21st century. While most of this course is influenced by Western Civilization it will also include the contributions of world cultures. Historical interaction, through primary and secondary sources, is studied in order to understand the concerns of the present and prospects for the future. Students are placed in the appropriate level of the course by their current history teacher in collaboration with other members of the Social Studies Department.

American Government (10)

Credit: 0.5—one semester

Prerequisite: none

Required

This course will trace the origins of America's political heritage and the creation of the American republic. Emphasis will be placed on understanding the basic governing principles that are the foundation of the U.S. Constitution and the Missouri Constitution, along with the understanding of both documents. Emphasis will be directed at the understanding and articulation of all students concerning the importance of responsible citizenship.

This class will cover and test for the state of Missouri requirement for meeting proficiency with both the U.S. and Missouri Constitutions.

American History (11)

Credit: 1.0--two semesters

Prerequisite: none

Required

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 through the beginnings of the 21st century. 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 University of Missouri–St. Louis

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

The ACC American History course is open to students who have demonstrated excellence in the study of history. 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 through the use of primary and secondary sources. The first semester covers the Colonial Period to the Civil War and the second semester the Civil War through the beginnings of the 21st century. This course will strongly emphasize reading, writing and critical thinking skills necessary for college.

ACC Western Civilization (12)

Credit: 1.0--two semesters

Three hours credit per semester available through University of Missouri–St. Louis

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

Elective

The ACC Western Civilization course is open to students who have demonstrated excellence in the study of history. This course will trace the political, social, religious and economic evolution of Western Civilization by surveying important moments in European history from the Greco-Roman period through the fall of the Soviet Union and the beginnings of the 21st century. This course will strongly emphasize the use of primary and secondary sources through reading, writing and the critical thinking skills necessary for college.

Watershed Events through the 20th Century (11, 12)

Credit: 0.5--one semester

Prerequisite: none

Elective

This elective course presents selected themes from historical and cultural perspectives that have evolved from the mid 20th century through our current day. Topics will include instances of terrorism and ethnic cleansing from Nazi Germany, through al Qaida and the Islamic State of Iraq, and consequences of undeclared wars from the Vietnam conflict through Afghanistan. Each topic will be related to its impact on the world into the 21st century.

Current Issues (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, as well as various on-line resources.

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.

Diversity in America (11,12)

Credit: 0.5 – one semester

Prerequisite: none

Elective

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 individual needs of each student by providing courses that allow each student to develop competency in mathematical skills, as well as in critical and analytical thinking. Three credits in math are required for graduation. Student progress is routinely assessed through homework completion, regular quizzes, chapter tests, and a final exam. Calculators will be used in all offered math classes. While a scientific calculator is sufficient in most classes, some students will be required to have one of the following graphing calculators: TI-82, TI-83, or TI-84+.

Pre-Algebra (9)

Credit: 1.0 – two semesters

Placement by departmental recommendation

Required for some students

This course is designed for students who would benefit from additional mathematical skill development prior to beginning Algebra 1. Recommended placement will be determined by previous mathematical achievement and aptitude.

Algebra 1 (9)

Credit: 1.0 – two semesters

Required

Topics covered in this course include the real number system, solving linear and quadratic equations and inequalities, polynomial operations, graphing, and factoring. Practical applications of these concepts will enrich the study of algebra in this course.

Geometry (9, 10, 11)

Credit: 1.0 – two semesters

Placement by departmental recommendation

Required

This course presents a development of a mathematical system by stressing the basic structure of geometry and developing form proofs through logical reasoning. Algebraic methods and skills will be used to solve geometric problems in both two and three dimensions. Concepts covered include lines, angles, triangles, polygons, circles, area, and volume. Practical applications that relate topics to the environment and workforce are also addressed.

Algebra 2 (10, 11, 12)

Credit: 1.0 – two semesters

Placement by departmental recommendation

Required for most students

This course further develops the skills and concepts covered in Algebra 1. Additional topics include rational expressions, systems of equations, linear relations, irrational, and complex numbers, conic sections, and matrices.

Advanced Algebra 2 (10, 11)

Credit: 1.0 – two semesters

Placement by departmental recommendation

Elective

This course further develops the skills and concepts covered in Algebra 1. Additional topics include rational expressions, systems of equations, linear relations, irrational, and complex numbers, conic sections, and matrices. The course is designed to prepare students for Pre-Calculus and Calculus and may be taken concurrently with geometry with departmental recommendation.

Trigonometry (11, 12)

Credit: 0.5 – One semester

Prerequisites: C or higher semester average in Algebra 2 and departmental recommendation

Elective

Trigonometry is the study of the properties of triangles. It is used in measuring precise distances, particularly in industries like satellite systems and sciences like astronomy. It is also present in architecture, music and engineering. The course is designed to reinforce algebra and geometry skills incorporated throughout the study of trigonometry. Topics include basic trigonometric functions,

inverse, functions, exploration of the unit circle, triangle applications, trigonometric identities, angles formulas, and the production of the graphs of trigonometric functions.

Statistics (12)

Credit: 0.5 – one semester

Prerequisite: Departmental approval

Elective

Statistics will help you to improve your understanding of data and use it to make decisions. Examples combined with real-world applications in this course will provide students with the skills and knowledge you need to start analyzing data. Students will explore how to use data and apply statistics to real-life problems and situations, discuss data and data collection practices, summarize and describe data with charts, numbers, and graphs, calculate and interpret probabilities, and see how they apply to decision making when you're faced with uncertainty. Throughout the course, students will use real data and a variety of examples drawn from business and industry, health care and medicine, sports, education, politics, news events, and the social sciences.

Algebra 3 (11, 12)

Credit: 0.5 – one semester

Algebra 3 is designed to prepare students for success in a freshman level college algebra math course. An advanced review and study of algebraic topics in equations, inequalities, linear, quadratic, exponential and logarithmic functions will be covered. Students will also use concepts of linear algebra to solve systems of equations and inequalities. An emphasis is placed on the review and application of skills necessary for success in college algebra.

ACC Pre-Calculus (11, 12)

Credit: 1.0 – two semesters

College credit available through Missouri Baptist University

Prerequisite: Successful completion of Advanced Algebra 2 and departmental recommendation. A 3.0 cumulative non-weighted GPA is required to register for college credit.

Elective

Topics included in this course are: absolute value equations and inequalities, trigonometry, analytic geometry, relations and functions, composition of functions, and logarithmic and exponential functions. This course provides background for calculus.

Students are required to have one of the following graphing calculators: TI-82, TI-83 or TI-84+.

ACC Calculus (12)

Credit: 1.0 – two semesters

College credit available through Missouri Baptist University

Prerequisite: Successful completion of Pre-Calculus and departmental recommendation. A 3.0 cumulative non-weighted GPA is required to register for college credit.

Elective

This course covers the basic concepts of introductory calculus. Topics covered include derivatives and their applications, integration, area under a curve, and volumes of revolution. This course is taught at college level for topics, depth of analysis, student work, and participation.

Students are required to have one of the following graphing calculators: TI-82, TI-83 or TI-84+.

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)

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. Topics such as atomic theory, characteristics

and properties of matter, and simple chemical reactions will be covered first semester. Second semester focuses on motion, energy, forces and machines. The course will incorporate general science skills such as using the scientific method, graphing, and unit conversion throughout the year. Concepts will be presented in a laboratory-lecture format.

Biology 1 (10)

Credit: 1.0 credit – two semesters

Prerequisite: Physical Science and departmental placement

Required

Students learn the basic principles of science and cover general biology principles. Concepts include: cells (structure, function, organelles), cell's environment (diffusion, osmosis, transport), cell division (mitosis, meiosis), DNA and protein synthesis, principles of heredity, classification, and evolution. The course will incorporate general science skills such as using the scientific method, graphing, and unit conversion throughout the year. 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. Teachers place students in the appropriate level of this course based on analysis of standardized test scores and recent classroom performance.

Chemistry (11, 12)

Credit: 1.0 credit – two semesters

Required beginning with class of 2020. Highly recommended for all students.

Prerequisites: Physical Science, Biology and departmental placement

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 (11, 12)

Credit: 1.0 credit – two semesters

Elective

Prerequisites: Physical Science, Biology 1 and departmental placement

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. Teachers place students in the appropriate level of this course based on analysis of standardized test scores and recent classroom performance.

Environmental Science (11, 12)

Credit: 1.0 credit – two semesters

Elective

Prerequisites: Successful completion of Biology 1 and departmental recommendation

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.

Anatomy & Physiology (11,12)

Credit: 1.0 credit – two semesters

Prerequisites: B or better in Biology and departmental recommendation

Elective

This is an advanced biology course for students who are interested in an in-depth study of the human body. Students will survey the major systems of the body with emphasis on structure and function and investigation in health and disease. Concepts will be presented in a laboratory-lecture format.

ACC Physics (12)

Credit: 1.0 credit – two semesters

Elective

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

Advanced college placement opportunity available through the AP testing program

Prerequisites: Successful completion of Algebra 2 and departmental recommendation

3.0 cumulative non-weighted GPA required for college credit registration

Physics is the study of the relationship of matter and energy. This course covers mechanics, thermodynamics, light, sound, electricity, magnetism, modern physics, and relativity. 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.

ACC Chemistry 2 (12)

Credit: 1.0 credit – two semesters

Elective

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

Advanced college placement opportunity available through the AP testing program

Prerequisites: Previous or concurrent enrollment in Algebra 2 and departmental recommendation

3.0 cumulative non-weighted GPA required for college credit registration

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**. 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 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 and online language resources 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 A (10, 11, 12)

Credit: 1.0 credit-two semesters

Prerequisite: Spanish 1 and department recommendation

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

SPANISH 2 B (10, 11, 12)

Credit: 1.0 credit-two semesters

Prerequisite: Spanish 1 and departmental placement

This course is designed for students who want to study the Spanish language and culture for a second year. There will be a comprehensive review of the topics of Spanish 1 with emphasis on vocabulary development and grammar concepts. Students must be placed in the class by their current teacher.

This course usually does not equip students who wish to continue studying Spanish. After completing this class students may take Spanish 3 only with teacher recommendation.

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 2A, 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 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 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, instrument choice must be discussed with Music Teacher

Elective

In this course, students will learn the fundamentals of their chosen standard concert band instrument. This course is designed to prepare interested students who have little or no previous playing experience for participation in Concert Band. Students will be introduced to reading music, standard musical terms and concepts, basic theory, as well as technical instruction on their particular instrument. Students must either provide their own instrument (can be owned or rented), or borrow an instrument from Trinity. ***Beginning Band is a performing ensemble and members are required to participate in all scheduled performances. Members are required to acquire the proper concert attire.***

Concert Band (9, 10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: Instructor Approval

Elective

This course is designed for students who have previous experience playing a standard concert band instrument. Students enrolled in this course will advance their knowledge of music and playing technique through the study and performance of diverse band repertoire in an ensemble setting. Students must either provide their own instrument (can be owned or rented), or borrow an instrument

Concert Band is a performing ensemble and members are required to participate in all scheduled performances. Members are required to acquire the proper concert attire.

Trinity Choir (9, 10, 11, 12)

Credit: 1.0 credit – two semesters

Prerequisites: None

Elective

Students enrolled in this course will learn about the fundamentals of vocal technique and the art of singing in an ensemble through the study and performance of music encompassing a broad range of time periods and styles. 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 and will be encouraged to participate in the music ministry at school-wide liturgical events. ***Trinity Choir is a performing ensemble and members are required to participate in all scheduled performances. Members are required to acquire the proper concert attire.***

History of Rock 'n' Roll (10,11,12)

Credit: 0.5 credit – one semester

Prerequisites: None

Elective

In this music history course, students will learn about many popular musical styles of the 20th century, which, in addition to Rock, includes Jazz, Blues, R&B, Soul, Country, and many other genres. Students will listen to, analyze, and discuss popular music of the 20th century. Students will also learn about the history of Rock music and its relationship to social, political and cultural issues; issues of race, class, and gender; the development of the music business; and the development of technology.

Beginning Guitar 1 (10, 11, 12)

Credit 0.5 – one semester

Prerequisites: None

Elective

This course is designed for students who have little or no previous experience playing the guitar. Students will learn basic chords, notes, accompaniment techniques, and a variety of playing styles including both pick and fingerstyle approaches to the guitar. The course also includes music fundamentals, theory, songs, performance, listening, composing, improvising, analyzing, and learning how to read standard music notation and tablature. Students must provide their own **acoustic guitar**. Rental instruments are available at many music stores. ***Beginning Guitar 1 is a performance-based course. Students are required to participate in the school concert as a class (solos not required).***

Guitar 2 (10, 11, 12)

Credit 0.5 – one semester

Prerequisites: Beginning Guitar 1 or Instructor Approval

Elective

This course is designed for students who have either completed Beginning Guitar 1 or who have some previous experience playing the guitar. Students will continue where Beginning Guitar 1 left off and continue learning chords, notes, additional accompaniment techniques, using both pick and fingerstyle approaches to the guitar. Students will continue study of music fundamentals, theory, songs, performance, listening, composing, improvising, and analyzing. Students will continue and improve their reading of standard music notation and tablature. Students must provide their own **acoustic guitar**. Rental instruments are available at many music stores. ***Beginning Guitar 2 is a performance-based course. Students are required to participate in the school concert as a class (solos not required)***

Beginning Piano (10, 11, 12)

Credit 0.5-one semester

Prerequisites: None

Elective

This course is designed to teach the concepts and fundamentals needed to perform on the piano and is intended for students with little to no previous playing experience. Students will learn chords, key signatures, notes, accompaniment patterns and improvisational techniques, while exploring a variety of playing styles. This course includes music theory and fundamentals, performance opportunities, listening, composing, analyzing, and learning how to read standard music notation. **Beginning Piano is a performance-based course. Students are required to participate in the school concert.**

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 variety of media will be used during this class. A sketchbook is required for this class.

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 will build skills of design through explorations of the seven elements of design; line, shape, value, color, texture, space, and balance. A sketchbook is required for this class.

Drawing (10, 11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art

Elective

Students will be taught skills and vocabulary through techniques in still life, portraiture, perspective drawing, and abstract drawing methods. Observational techniques will be reinforced throughout the course. A variety of media will be used including pencil, charcoal, oil pastel and pastel. Students will build on the basic principles of line, shape, form, value, color and texture.

Ceramics (10, 11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art

Elective

An introduction to clay, the history of clay, and various surface techniques will be taught. Skills and vocabulary will be taught through a variety of building techniques including pinch pots, coil, slab and lidded vessels.

Painting (10, 11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art, Drawing, and department approval 

Elective

Students will develop skills with the brush and palette knife while painting. Media may include

watercolor, acrylics, and oil. A variety of painting techniques will be explored including still-life, perspective, and abstract methods. A study of painting history will also be included in this course. A sketchbook is required.

Graphic Design (11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Foundations of Art

Students will learn computer art and graphic design skills, using the Macintosh Lab. Adobe Illustrator and Photoshop applications will be used to create a variety of print design. Attention to the design process and final product will be covered. Students will have colored prints of their final pieces.

Advanced Art (11, 12)

Credit: 0.5 credit – one semester

Prerequisites: Three semesters of Art, including Foundations of Art

Elective

This advanced level course is for the self-disciplined art student looking to challenge themselves in their particular concentration (drawing, painting, ceramics). The aim is to create a cohesive body of work within the student's concentration, yet experimentation and risk-taking for the purpose of learning are also encouraged. Teacher guidance and ongoing critiques will be given throughout the semester.

DRAMA

History of Film (10, 11, 12)

Credit: 0.5 credit - one semester

Prerequisites: None

This course will take an in-depth look at different film genres along with the development of film as we know it today. Students will be expected to document notes while watching films in order to complete assignments, quizzes, and tests. Students will read one novel before watching the film version for better understanding.

Drama (10, 11, 12)

Credit: 0.5 credit - one semester

Prerequisites: None

Elective

This course introduces basic principles of theatre. Students will explore performance; developing skills in areas of performance, which may include acting, movement, public speaking, improvisation, dance, & stage combat. Students will study theatre by reading selected works from different historical periods. Students will address each of these works with a project from a different theatrical perspective, gaining practical experience in scenic design, costume design, lighting, properties, etc. Students will also be required to attend Trinity theatrical productions, and contribute to the production in some way (ushers, set building, etc.) In this course, every student must be willing to perform and speak in front of the class.

MEDIA

Introductory Multimedia (10, 11, 12)

Credit: 0.5 - one semester

Prerequisite: none

Elective

Students will learn fundamental skills in both electronic and print media. Instruction in digital imaging, both still and video, will lead to short project assignments. Student iPads, apps, 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 and departmental approval

Elective

The course is an application in electronic media. Students will learn the essentials of digital video

photography and video editing. Working primarily on the Macintosh platform, using both the iPads and iMac desktop computers, students will shoot, edit, and produce material. Within the framework of this course, further skill development in desktop audio 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, Titan Times, Senior Video, Three in the Morning, etc. Students will work in the Macintosh environment, using both iPads and iMac desktop computers. 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.

App Development for the iPad (11, 12)

Credit: 0.5 credits - one semester

Prerequisite: none

Elective

This iTunes U course, designed by Apple, has a primary learning outcome of being able to design and create IOS apps for the student iPads. In this real world course students will learn to write code and create apps that will actually run on their iPads or phones. Students will use their iPads to access course content and school iMac desktops to produce code. Grading is based on content quality, functionality and lesson completion.

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.

Microsoft Office (9, 10)

Credit: 0.5 credits - one semester

Prerequisite: none

Elective

This is a survey course that will cover the Microsoft Office suite of software. The following programs will be covered in this class: Microsoft Word, Excel, and Power Point. 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.

Personal Finance (10, 11, 12)

Credit: 0.5 credits – one semester

Prerequisite: none required

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.

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 Accounting 1

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 sewing skills. Class enrollment may be limited due to available space and equipment. In most instances preference will be given to upper classmen.

Foods and Cooking (11,12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

Maximum Enrollment 18 students per section

This course is 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. Lab time will provide the opportunity to learn proper measuring techniques, to read and follow recipes, and to prepare food following simple recipes. Class requirements will include written assignments and research along with lab time. **Students must have a 2" three ring binder that is designated for use in this class only.**

Geography of Food ()

Credit: 0.5 credits – one semester

Prerequisite: Completion of Foods and Cooking with at least a B average and teacher recommendation

Elective

Maximum Enrollment 18 students per section

Sewing (10,11,12)

Credit: 0.5 credits – one semester

Prerequisite: none

Elective

Maximum Enrollment 18 students per section

This course is designed to teach students basic skills of hand and machine sewing. Students will learn to identify sewing tools as well as the parts of a sewing machine and their uses. 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 properly use a sewing machine. Machine projects will include turning the embroidery piece into a pillow, a pillowcase, pajama pants, and an apron. **Each student must provide his or her own new pair of sewing scissors. Students will also be responsible for purchasing fabric for assigned sewing projects.**

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. **Students are required to have a 2" three ring binder designated for use in this class only.**

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, fragrances, makeup and the elements and principles of design. The course will conclude with a look at the many career opportunities in the world of fashion. **Students are required to have a 2" three ring binder designated for use in this class only.**

INDUSTRIAL ENGINEERING AND TECHNOLOGY EDUCATION

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

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. Opportunities for exploratory, individual and team work in various engineering competitions will be available. Coursework will be executed on iMac 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. Coursework will be executed on iMac computers in AutoCAD LT.

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, individual and team work in various engineering competitions will be available. Coursework will be executed on iMac 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 skills, techniques, and applications mastered in Mechanical Drawing 1. Advanced CAD technique, problem solving, threads and fasteners, industrial components, and some engineering project work will be included. Opportunities for exploratory, individual and team work in various engineering competitions will be available. Coursework will be executed on iMac computers in AutoCAD LT.

Robotics 1 (10,11,12)

Credit: .5 Credit – one semester

Prerequisite: Proficient computer skills, department approval

Elective

Students will learn electronics, programming and robotics all at once. They will learn to write programs in PBASIC; build simple circuits from schematics and wiring diagrams; download PBASIC programs to control the circuits assemble robot hardware; learn to drive a robot with simple motion commands. and add sensor circuits and program a robot to navigate on its own.

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.

Dress:

Students enrolled in any physical education course are required to bring a change of clothing in order to participate in class activities.

Required Dress Includes:

Athletic shorts or sweatpants, T-shirt or sweatshirt, socks and soft soled tennis shoes. Shorts must be of appropriate length and fit for our school environment.

Fundamentals of Physical Education (9, 10)

Credit: 0.5 credit – one semester

Prerequisite: None

Required

This class must be taken freshman or sophomore year. 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, officiating fundamentals and a strong focus on positive peer feedback.

Rhythm and Movement (10, 11, 12)

Credit: 0.5 credit – one semester

Prerequisite: Fundamentals of P.E.

This class will expose students to various forms of aerobics, dance, and movement primarily focused on cardiovascular activities through but not limited to Zumba, Stomp, Line Dancing, and Hip Hop. Strength training and flexibility components will be introduced through Yoga and free weight exercises. Students of all fitness levels welcome.

Team Sports (10,11, 12)

Credit: 0.5 credit – one semester

Prerequisite: Fundamentals of P.E.

This class will teach the methods and tactics for several team sports and activities. Time will be spent learning scorekeeping, officiating and coaching tactics for the sport. This class will spend the semester focused on 8-10 different indoor and outdoor sports.

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 health and wellness. Nutrition, lifestyle factors, safety issues, mental health and CPR in Schools program will be addressed.

NON-DEPARTMENTAL COURSE

Bridges (9)

Credit: 0.5 credit – one semester

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, time management, study, note-taking, test-taking as well as library research skills. Students will participate in character education.